



# **RECORDS AND HISTORY OF THE UNITED STATES GEOLOGICAL SURVEY**

Clifford M. Nelson, Editor  
U.S. Geological Survey Circular 1179

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### **Inventory of the Records of the United States Geological Survey Record Group 57: In the National Archives**

*Compiled by Renée M. Jaussaud*

### **The United States Geological Survey 1879 - 1989 U.S. Geological Survey Circular 1050**

*By Mary C. Rabbitt*

2000  
U.S. Department of the Interior  
U.S. Geological Survey

**INVENTORY OF THE RECORDS OF  
THE UNITED STATES GEOLOGICAL SURVEY  
RECORD GROUP 57  
IN THE NATIONAL ARCHIVES**

Compiled by Renée M. Jaussaud  
United States Geological Survey  
and  
National Archives and Records Administration

1999

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## Directors of the United States Geological Survey

### *Name and Date of Oath of Office*

1. Clarence (Rivers) King: May 24, 1879
2. John Wesley Powell: March 19, 1881
3. Charles Doolittle Walcott: June 30, 1894
4. George Otis Smith: April 30, 1907
5. Walter Curran Mendenhall: December 24, 1931  
(Acting Director from December 23, 1930)
6. William Embry Wrather: May 7, 1943
7. Thomas Brennan Nolan: January 27, 1956
8. William Thomas Pecora: September 25, 1965
9. Vincent Ellis McKelvey: December 8, 1971
10. Henry William Menard: March 28, 1978
11. Dallas Lynn Peck: September 2, 1981
12. Gordon Pryor Eaton: March 14, 1994
13. Charles George Groat: November 13, 1998

## Introduction

The United States Geological Survey (USGS) was founded by an act of Congress dated March 3, 1879 (20 Stat. L., 394-395). The provisions of the act specified that “the salary of the Director of the Geological Survey, which office is hereby established, under the Interior Department, who shall be appointed by the President by and with the advice and consent of the Senate, six thousand dollars: *Provided*, That this officer shall have the direction of the Geological Survey, and the classification of the public lands and examination of the Geological Structure, mineral resources and products of the national domain.” The act directed the termination of the three ongoing geological and geographic surveys (predecessor surveys) and the deposit of the USGS and other Federal scientific collections in the National Museum. Other clauses specified ethics for USGS employees. The act also provided for the publication of an annual report of the operations of the USGS, maps, and technical reports, a program of publications exchange, and the establishment of a library.

Although the agency was commonly referred to as the United States Geological Survey and routinely used that title on official publications, it was by the act of May 18, 1992 (106 Stat. L., 171), that the Federal Geological Survey officially became the United States Geological Survey

The act of August 7, 1882 (22 Stat. L., 329), directed the USGS “to continue the preparation of a geologic map of the United States.” The legal interpretations of “national domain” in the USGS establishing legislation (or organic act) had restricted the agency’s operations to the public-land States and Territories west of the Mississippi River. As geologic mappers required accurate large-scale topographic maps on which to compile their data and interpretations, the new law was interpreted by the USGS as authorizing topographic and geologic mapping in the remainder of the United States. The Survey entered into cooperative arrangements with the States to conduct field examinations and compile maps.

Continuous funding for water-resources investigations by the USGS dates from the act of August 18, 1894 (28 Stat. L., 398), that specifically authorized “gauging the streams and determining the water supply of the United States, including the investigation of underground currents and artesian wells in arid and semiarid sections.” The “Weeks Act” of March 1, 1911 (36 Stat. L., 962), added responsibility for the examination of lands before they were purchased to “promote or protect the navigation of streams on whose watersheds they lie.”

The land-classification work specified in the organic act was not an active function of the USGS until 1906. That year the General Land Office and the USGS entered into a cooperative agreement that specified that the USGS was to be chiefly responsible for the examination and classification of lands and report its findings to the General Land Office for action. In 1908 the Land Classification Board was established in the Geologic Branch. In 1925 when the Bureau of Mines was transferred to the Department of Commerce the Mineral- and Oil-Leasing Divisions of the Bureau of Mines were transferred to the USGS. With the transfer the USGS’ new Conservation Branch acquired responsibility for administering the provisions of the Mineral Leasing Act of February 25, 1920 (41 Stat. L., 437), and related legislation that formed the basis of regulatory responsibilities in the USGS.

In 1907 the USGS established a Technologic Branch to administer the programs of fuel- and structural-materials testing and analysis. The act of May 22, 1908 (35 Stat. L., 226), provided for investigations into the causes of mine explosions. A Mine Accidents Division was set up in the Technologic Branch to conduct these investigations. In 1910 most of the Technologic Branch’s functions were transferred to the newly created Bureau of Mines. The same year structural-materials studies were transferred to the Bureau of Standards.

By 1920 the operational units that would carry out USGS programs for the next sixty years were in place - the Geologic Branch, Topographic Branch, Water Resources Branch, and Land Classification Board (later the Conservation Branch) [Organization Chart 1].

The first USGS Director, Clarence King, established field offices. John W. Powell, the second Director, closed the field offices and all off-season work was done at the Washington headquarters. Later the operational units found that field offices increased the staff's time for field work and ensured the direct oversight of year-round operations such as stream gaging. The location and number of field offices differed from one operational unit to another depending on type of work and need.

USGS staff served on USGS committees, such as the Geologic Names Committee, that drew on the experience and expertise of employees to better administer the agency's programs; departmental and regional field committees, such as the Water Resources Committee, to coordinate departmental programs and formulate long-range plans within the department; and interagency and coordination committees, such as the Pacific Northwest Coordination Committee, to facilitate cooperation between agencies of the Federal Government. USGS staffers also attended meetings of other departmental committees as observers or to serve a liaison function. The professional staff of the USGS also participated in conferences and meetings of professional, industrial, and international scientific organizations.

In the 1930's the USGS undertook programs with funds appropriated for economic recovery under the administration the National Recovery Administration, the Public Works Administration and the Work Projects Administration. The level of cooperative work between the operational units of the USGS, particularly the Topographic and Water Resources Branches, and other Federal agencies and States increased with funding provided by economic-recovery appropriations.

During World War I and World War II the USGS reoriented its programs to support the war effort. Just before the United States entered World War I USGS geologists were gathering data about worldwide strategic-mineral production and consumption. During the war many experienced topographers were commissioned in the military to prepare maps. The water-resources staff made studies of ground water for the use of military installations. USGS involvement in World War II occupied more of the civilian staff over a longer period of time. The Branches worked under agreements with and funding from elements of the War Department to compile strategic terrain intelligence reports on enemy held areas, to identify the locations of critical minerals available to the enemy, and to prepare topographic maps of areas occupied by United States forces.

The growth of USGS programs and staff after World War II required fundamental changes in organizational structure. To handle the increased administrative demands on the Branch Chiefs, staff positions were created in the Divisions. In 1946 two staff units were added to the Topographic Branch, the Plans and Coordination Branch and the Research and Technical Branch. In 1948 the Technical Control and Programs Control Branches were added to the Water Resources Branch; an Executive Officer began work in the Geologic Branch; and the position of Chairman of the Unit Plan Committee was created in the Conservation Branch. In 1949 Federal branches were renamed divisions with subordinate branches; the divisions were restyled branches, with subordinate sections and units. Under Reorganization Plan No. 3 of 1950 other organizational and administrative changes were made in the USGS. The plan vested some of the authority that had been exercised by the Director in the Secretary of the Interior. In the next several years the staffing plans of the Divisions were evaluated with the object of reorienting the lines of authority. The process was essentially complete in by 1958 [Organization Chart 2].

In the 1930's it became evident to USGS geologists that oil-bearing geological structures in the California and Gulf of Mexico coastal plains extended offshore. In 1945 an Executive Order placed the natural resources of the Continental Shelf under the jurisdiction of the Secretary of the Interior. The Submerged Lands Act of 1953 established Federal jurisdiction over the Continental Shelf. The Outer Continental Shelf Lands Act of 1953 encouraged the exploration and development of fossil fuel and other mineral resources. Geological and geophysical exploration on the outer continental shelf was conducted by the Geologic Division and oversight of leasing and, later, application of environmental-protection laws, was the responsibility of the Conservation Division.

The National Environmental Policy Act of 1969, Coastal Zone Management Act of 1972, Water Resources Research Act of 1984, and other legislation about national environmental policy that reflected growing public concern about environmental and conservation matters augmented the work of the USGS. The Water Resources Division expanded a network of gaging stations set up to measure the flow of fresh water into estuaries. The Geologic Division developed new techniques for the study of marine geologic structures to determine environmental hazards associated with offshore drilling facilities. The Topographic Division used data from earth-observing satellites and high-altitude aircraft to compile maps to aid in land-use planning. The USGS established a data center in 1973 to collect data from remotely sensed sources under the Earth Resource Observation Systems (EROS) Program.

The Office of Earth Sciences Applications (OESA) succeeded the Land Analysis and Information Office, which had been established in 1975. Records concerning the earlier programs of the predecessor unit, the Geographic Applications Program are described with the records of the Office of the Geographer (entries 61, 65, and 66). The OESA was abolished in 1982 and its functions were dispersed to the National Mapping, Geologic, and Water Resources Divisions.

The Office of the Naval Petroleum Reserve in Alaska (ONPRA) was established in the Office of the Director of the Geological Survey in 1977. In 1974 the Navy Department began a new exploratory program in Alaska's Naval Petroleum Reserve No. 4. The program was expanded with funds authorized by Congress. The Naval Petroleum Reserves Production Act of April 5, 1976 (90 Stat. L., 303), renamed the reserve the National Petroleum Reserve in Alaska and assigned the Department of the Interior oversight of the exploratory program and other duties associated with management of the reserve. In 1977 these tasks were delegated to the USGS. The program was terminated in 1982 and the oil and gas fields turned over to the North Slope Borough.

In 1982 the Minerals Management Service (MMS) was created by Secretarial Order 3071 (January 19, 1982) and amendment 1 (May 10, 1982) under the authority of Section 2 of Reorganization Plan 3 of 1950. The same year administrative functions relating to outer-continental-shelf leasing responsibilities in the Conservation Division were transferred to MMS. The following year revenue-management responsibilities of the Conservation Division were also transferred. Onshore leasing responsibilities on public and Indian lands were transferred to the Bureau of Land Management.

In 1993 Secretarial Order 3173 (September 29, 1993) established a National Biological Survey in the Department of the Interior composed of functions transferred from the United States Fish and Wildlife Service, National Park Service, Bureau of Land Management, Minerals Management Service, Office of Surface Mining Reclamation and Enforcement, United States Geological Survey, and Bureau of Reclamation. The agency, renamed the National Biological Service in 1995, was responsible for providing scientific support and other assistance to other Federal agencies in forming policies that would effect the conservation and management of the biological resources of the United States. In 1996 the National Biological Service was abolished under the provisions of the act of April 26, 1996 (110 Stat L., 1321-165) and its functions transferred to the USGS, where it was reconstituted as the Biological Resources Division.

The United States Bureau of Mines was abolished under provisions of the act of April 26, 1996 (110 Stat. L., 1321-167). Functions relating to minerals information and analysis were transferred to the USGS.

An important source of related records is Record Group 48, Records of the Office of the Secretary of the Interior. The USGS has been a bureau of the Department of the Interior since the agency's establishment in 1879. The records of the Office of the Secretary of the Interior contain many series that document departmental oversight of the functions and programs of the USGS. The records of the Office of the Secretary are organized in two major sub-groups, pre-1907 and post-1907. The information presented herein is intended to highlight those series that contain readily identifiable and significant records relating to the USGS. Where entire series are cited the dates given are those of the series and not necessarily the items contained in the series that relate to the USGS.

An inventory of Record Group 48, Records of the Office of the Secretary of the Interior is available at the National Archives and Records Administration (NARA).

In the pre-1907 records administrative oversight of the USGS is documented in the letters received and letters sent of the Patents and Miscellaneous Division. Four other series in this division also contain records relating to the USGS and its predecessor surveys: (1) letters received relating to the United States Entomological Commission, 1877-80; (2) letters relating to the Geological Survey and its predecessors, 1868-80; (3) reports of the Geological Survey, 1883-87; and (4) records relating to forest reserves, 1891-1902. Matters in which the USGS was involved relating to areas under the jurisdiction of the General Land Office or the Bureau of Indian Affairs were handled through the Lands and Railroads Division and the Indian Division, respectively, and are documented in the letters received and letters sent of those divisions. The records of the Lands and Railroads Division also include a series of records relating to specific reclamation projects, 1889-1907. The records of the Appointments Division included several series that contain records relating to the USGS: (1) central office appointment papers, 1849-1907, which include a few files items relating to the nomination and appointment of Directors of the USGS, including Clarence King, John W. Powell, and Charles D. Walcott; (2) departmental appointment papers, 1879-1906, which concern the appointment of the USGS's scientific and technical employees, clerks, messengers, and others, but not seasonal field employees who were hired in the field; and (3) record cards for employees of the USGS, 1918 (for individuals with surnames beginning with the letters L-Z).

In the post-1907 records the central classified files contain significant records about the USGS. In the central classified files dated 1907-53, most of the records documenting oversight of the USGS are in section 7 - Geological Survey. There are also related files in section 1 - Administrative, section 8 - Bureau of Reclamation, and section 11 - Bureau of Mines. The central classified files dated 1954-58 contain pertinent records in section 3 - Geological Survey. The later central files, 1959-63, 1964-68, and 1968-72 include information about the USGS dispersed among many programs areas. Other post-1907 records also contain records about USGS activities. The general subject files, 1939-58, of the Office of the Solicitor include files titled Geological Survey, oil and gas, water and power, and the outer continental shelf. The records of the Division of Information include press releases relating to the USGS in several sub-series dated 1938-61, 1959-62, and 1963-74. The records relating to legislation, in two series dated 1907-53, and 1954-58, are an important source of information about legislative mandates that affected USGS programs. The records concerning the department war history, 1941-48, contain a draft history of USGS activities during World War II. The general records, 1946-51, of the Minerals and Fuels Division; the central files, 1947-53, of the Program Staff; and the central classified files, 1937-56, of the Division of Land Utilization contain files titled Geological Survey.

Several bureaus were formed entirely, or in part, or enhanced from functions that originated in the USGS. The records of those agencies that are found in the National Archives are designated: Record Group 49, Records of the Bureau of Land Management (created when the Division of Grazing, formed from functions transferred from the USGS, was merged with the General Land Office); Record Group 70, Records of the United States Bureau of Mines; Record Group 90, Records of the Public Health Service; Record Group 95, Records of the Forest Service; Record Group 115, Records of the Bureau of Reclamation; and Record Group 423, Records of the Minerals Management Service.

Other records that contain information about cooperation with the USGS include Record Group 9, Records of the National Recovery Administration; Record Group 23, Records of the Coast and Geodetic Survey; Record Group 27, Records of the Weather Bureau; Record Group 68, Records of the United States Coal Commission; Record Group 77, Records of the Office of the Chief of Engineers; Record Group 79, Records of the National Park Service; Record Group 106, Records of the Smithsonian Institution; Record Group 114, Records of the Soil Conservation Service; Record Group 126, Records of the Office of Territories; Record Group 135, Records of the Public Works Administration; Record Group 138, Records of the Federal Energy Regulatory Commission (formerly the Federal Power Commission); Record Group 142, Records of the Tennessee Valley Authority; Record Group 232, Records of the Petroleum Administrative Board; Record Group 298, Records of the Office of Naval Research; Records Group

320, Records of the Office of Minerals Exploration; Records Group 324, Records of the Board on Geographic Names; and Record Group 326, Records of the Atomic Energy Commission.

Summary descriptions of the records comprising each of the record groups are in the "Guide to Federal Records in the National Archives of the United States" (1995). The Guide also described records of the United States Geological Survey that are located in NARA field branches. The USGS records in the National Archives Branches are records and files that were created or maintained by the field offices of the USGS.

More than 20,000 USGS field notebooks or files, 2,600 map groups, 2,000 folders, and 70,000 aerial photos (some annotated) that remain in the custody of the agency are in the Field Records Library, Special Collections, USGS Library, Denver, Colorado, where they support the agency's work-in-progress. These materials, which date from 1871, include field and compilation maps, annotated topographic maps, planetable sheets, correspondence, drafts of papers, unpublished reports, well logs, and analysis reports.

The records described in this inventory constitute Record Group 57, Records of the United States Geological Survey in the National Archives of the United States. The records are located in Archives II in College Park, Maryland. This inventory includes all the records of the United States Geological Survey that were accessioned to the National Archives as of December 31, 1997. The records consist of textual materials, maps and plans, aerial photographs, still photographs, motion pictures, and sound recordings. The textual records are in the custody of the Textual Archives Services Division (NWCTC). The non-textual records are in the custody of the Special Media Archives Services Division (NWCS). The footage given is in linear feet unless otherwise stated.

The records in this inventory are organized in sections by the organizational units that created or maintained the records. Thereunder the records are described in series. A series is defined as a collection of records that is arranged by a systematic filing system (decimal, alphabetical, chronological, map series), that share a unique format (indexes, geologists' field notebooks, microfiche), or were maintained as a set of files by an organizational unit to document a program area or function. Whenever possible the nontextual records (maps and plans, aerial photographs, still pictures, motion pictures) are described with related textual records. The nontextual materials that do not relate to any particular series of textual records; they are described in a general category at the division level. All the appendices, with the exception of Appendix 1 (a select list of legislation) and Appendix 7 (a summary list of series contents), are complete file-title lists.

The nontextual records are maintained in specialized custodial units. The maps and plans, aerial photographs, still pictures, and motion pictures are in the Special Media Archives Services Division (NWCS) in the National Archives and are accompanied by the designation NWCS. A few nontextual records are filed with the textual records and are so indicated with the series description.

Sources for the history of the USGS include the three volumes by Mary C. Rabbitt, "Minerals, Lands, Geology for the Common Defence and General Welfare, Volume 1, Before 1879" (1979), "Volume 2, 1879-1904" (1980), and "Volume 3, 1904-1939" (1986) published by the U. S. Government Printing Office as USGS Special Books. A fourth volume (1939-1979) is being prepared. Earlier analyses comprise those by Charles D. Walcott, 1904, "The United States Geological Survey: Its Origin, Development, Organization, and Operations," USGS Bulletin 227, and the Institute for Government Research (IGR), 1918, "The United States Geological Survey, Its History, Activities, and Organization" published in New York and London by D. Appleton & Company as its Service Monograph of the United States Government No. 1. A book-length interpretive history of the early years of the USGS is Thomas G. Manning, 1967, "Government in Science: The U.S. Geological Survey, 1867-1894," published in Lexington by the University of Kentucky Press. For detailed evaluations of the immediate predecessor surveys of the USGS, see Richard A. Bartlett, 1962, "Great Surveys of the American West," published by the University of Oklahoma Press, and Chapters XI-XV in William H. Goetzmann, 1966, "Exploration and Empire: The Explorer and the Scientist in the Winning of the American West," published in New York by Alfred A. Knopf.

Cooperation between the USGS and NARA in the years since 1980 facilitated the production of this inventory. The compiler thanks Clifford Nelson (USGS) and Sharon Thibodeau (NARA) for their encouragement and supervision. At NARA, archivists Charles Dewing, William Heynen, Deborah Lelansky, Edward McCarter, Michele Pacifico, Joseph Schwarz, Richard Smith, Alan Walker, and Charles Zaid contributed to the completion of the work. Nelson and Robert Kvasnicka (NARA) also served as technical reviewers and revisers of the draft versions. The inventory was edited using the standards of the USGS and the U.S. Government Printing Office.

## RECORDS OF THE PREDECESSOR SURVEYS, 1847-82

### United States Geological Exploration of the Fortieth Parallel ("King Survey"), 1867-81

The United States Geological Exploration of the Fortieth Parallel was founded by an act of Congress for legislative, executive, and judicial expenses dated March 2, 1867 (14 Stat. L., 457). The legislation authorized "the Secretary of War to direct a geological and topographical exploration of the Territory between the Rocky Mountains and the Sierra Nevada mountains, including the route or routes of the Pacific (transcontinental) railroad." Civilian geologist Clarence King was placed in charge of the reconnaissance. On March 21, Brigadier General Andrew A. Humphreys, Chief of the Army Corps of Engineers, directed King to map and examine and describe the geological structure, geographical condition, and natural resources of this belt of country, especially its economically important mineral deposits and mining districts. Humphreys later extended the work to the eastern slope of the Rockies. King's organization completed its field work in 1872 and published all but one of its final reports before King closed his accounts and resigned his appointment on January 18, 1879. O. C. Marsh's "Odontornithes," the exploration's last volume, appeared in 1880. For a list of these reports, see Laurence F. Schmeckebier, 1904, "Catalogue and Index of the Publications of the Hayden, King, Powell, and Wheeler Surveys," USGS Bulletin 222.

Geologists' field notebooks compiled during the survey by Clarence King (No. 5243) and Samuel F. Emmons (Nos. 1108 to 1113) are part of the records described in entry 172.

Many of the records concerning the "King Survey" described in this inventory have been published as National Archives and Records Administration (NARA) Microfilm Publication M622, "Records of the Geological Exploration of the Fortieth Parallel ("King Survey"), 1867-81."

1. LETTERS RECEIVED FROM THE WAR AND TREASURY DEPARTMENTS. Mar. 21, 1867 - Apr. 11, 1870. 2.5 in. 1 vol.

Arranged chronologically, except for a few printed circulars found in the front of the volume.

Mounted and bound letters received from the War Department, chiefly the Corps of Engineers, defining the mission and authorizing the organization and operations of the "King Survey," and letters from the Treasury Department concerning fiscal matters. A Treasury Department circular issued in 1877 (No. 27) is bound in the front of the volume. Also inserted but not mounted into the volume are Corps of Engineers Circulars dated October to December 1867 (Nos. 26 to 47, incomplete).

This volume has been published as part of NARA Microfilm Publication M622.

2. LETTERS RECEIVED FROM THE OFFICE OF THE CHIEF OF ENGINEERS. Apr. 12, 1870 - May 13, 1881. 4 in. 1 vol.

Arranged chronologically, except for letters dated Sept. 2, 1876 through Nov. 22, 1879, which were bound in reverse order.

Mounted and bound letters received relating to funding, equipment, personnel, scientific specimens, field operations, reports, and photographs. Included are letters from the Treasury Department, other War Department offices, the Department of the Interior, the New York State Museum of Natural History, the Royal Society of London, and private individuals.

This volume has been published as part of NARA Microfilm Publication M622.

3. LETTERS RECEIVED FROM THE TREASURY DEPARTMENT AND THE PUBLIC PRINTER.  
Apr. 1, 1870 - Jan. 29, 1879. 2.5 in. 1 vol.

Arranged in two segments in the order given above, and thereunder in rough chronological order.

Mounted and bound letters received relating to King's accounts as disbursing agent and to arrangements for publishing the findings of the "King Survey." Army Corps of Engineers and Treasury Department circulars, regarding the duties of disbursing officers, dated 1863-1869, are inserted in the middle of the volume. The contents of the volume measure 0.75 in.

This volume has been published as part of NARA Microfilm Publication M622.

4. LETTERS SENT TO THE CHIEF OF ARMY ENGINEERS. Mar. 28, 1867 - Jan. 18, 1879. 2.5 in.  
1 vol.

Arranged chronologically.

Handwritten copies of letters (some with copies of enclosures), telegrams, and reports concerning field operations, fiscal and administrative matters, and compilation of reports. Among these letters is Clarence King's official report to Andrew A. Humphreys, dated Nov. 27, 1872, regarding the exposure of the "Diamond Hoax," the fraudulent occurrence of diamonds in Colorado. Geologist's field notebook No. 1113 (part of the records described in entry 172 in this inventory) contains notes relating to the diamond frauds.

This volume has been published as part of NARA Microfilm Publication M622.

5. PHOTOGRAPHIC PRINTS. ca. 1868-72. 6 in.

Arranged by agency assigned number. Most of the photographs bear captions giving the subject and name of the photographer. This is series KS (NWCS, still pictures).

Mounted prints (8 in. x 11 in.) of areas mapped as part of a survey of Nevada, California, Utah, and Wyoming. Most of the photographs were taken by Timothy H. O'Sullivan. The subjects include Donner Lake Pass, California; Mono Lake, California; East Humboldt Mountains, Nevada; Fort Ruby, Nevada; Virginia City, Nevada; hot springs and mining operations in Nevada; Big Cottonwood Canyon, Wasatch Mountains, Utah; Salt Lake City, Utah; and examples of limestone, granite, and additional rock types and formations, and other geologic features.

There are also mounted prints of the Mount Shasta area taken by Carlton E. Watkins.

Many of the photographs have corresponding original negatives, series KN, and color transparencies, series KSP, both in Record Group 77, Records of the Office of the Chief of Engineers.

6. PHOTOGRAPHIC PRINTS. ca. 1867-72. 5 in.

Arranged numerically by original negative number. Most of the photographs are captioned. This is series KSU (NWCS, still pictures).

8 in. x 11 in. mounted prints of areas mapped in Nevada, California, Utah, and Wyoming. Subjects include Tertiary (Eocene) sandstone in Echo Canyon, Utah; Green River Canyon, Utah; Wasatch Mountains, Utah; Austin, Nevada; East Humboldt Mountains, Nevada; and. Pyramid Lake, Nevada. Some of the photographs carry handwritten annotations indicating that the photographer was Timothy H. O'Sullivan.

The original negatives are in Record Group 77, Records of the Office of the Chief of Engineers, series KN.

United States Geographical and Geological Survey of the Rocky Mountain Region  
("Powell Survey"), 1869-82

John Wesley Powell began his first exploration of the Colorado River in 1869 with appropriations (15 Stat. L., 253, June 11, 1868) for rations for his party to be issued by the Secretary of War. An act of July 12, 1870 (16 Stat. L., 242), made a direct appropriation for the survey of the Colorado River and its tributaries to be expended under the direction of the Secretary of the Interior. From 1871 to 1873 the explorations were conducted under the sponsorship of the Smithsonian Institution. With the act of June 23, 1874 (18 Stat. L., 207), Congress returned supervision of Powell's western survey to the Secretary of the Interior where it was renamed the "Geological and Geographical Survey of the Territories, Second Division." Beginning with the appropriation act of July 31, 1876 (19 Stat. L., 120), the survey became known as the United States Geographical and Geological Survey of the Rocky Mountain Region. The survey was terminated on June 30, 1879, by the act of March 3, 1879 (20 Stat. L., 394), the same law that created the USGS.

Some photographs relating to the "Powell Survey" are part of a general collection that is described in entry 41. Geologists' field notebooks compiled by Grove K[arl] Gilbert (Nos. 3391 to 3411, and 3415) are part of the records described in entry 172.

7. LETTERS RECEIVED. 1869-79. 2 ft. 10 vols.

Arranged chronologically by year and thereunder alphabetically by surname or official title of correspondent.

Chiefly mounted and bound letters, but also included are postcards, circulars, legislative bills, newspaper clippings and a large plat showing areas surveyed by Hayden, Powell, and Wheeler and the area to be surveyed by Wheeler in 1874 (Vol. 2). The letters are from scientists, professional societies, the Secretaries of the War, Interior, and Treasury Departments, members of Congress, Secretary of the Smithsonian Institution, inhabitants of the intermountain regions, expedition members and others. The records concern the organization and objectives of Powell's expeditions, administration of Indian agencies, Indian languages and customs, public lands in arid regions, processing and publication of reports, the Philadelphia Centennial Exposition, the establishment of the USGS, and other subjects.

These records have been published as National Archives and Records Administration (NARA) Microfilm Publication M156, "Letters Received by John Wesley Powell, Director of the Geographical and Geological Survey of the Rocky Mountain Region, 1869-79."

8. PRESS COPIES OF LETTERS SENT. Oct. 3, 1876 - June 30, 1879. 6 in. 4 vols.

Arranged in rough chronological order. The volumes contain partial indexes to names of addressees.

Letters to the Secretary of the Interior, members of Congress, other government officials, the Secretary of the Smithsonian Institution, geologists, and others concerning the printing and distribution of reports, Indian ethnography, western exploration, the Philadelphia Centennial Exposition, and the establishment of a national geological survey.

Many of the letters are not legible. These letters have not been microfilmed.

9. MAPS TO ACCOMPANY A "REPORT ON THE LANDS OF THE ARID REGION OF THE UNITED STATES." 1878. 3 items. [NWCS, maps and plans]

The maps, from Powell's volume, are titled "Map of the United States exhibiting the Grants of Lands made by the General Government to Aid in the Construction of Railroads and Wagon Roads," and "Rain Chart of the United States." The latter, using color shading and isohyal lines, shows the distribution of the mean annual precipitation in rain and melted snow. The second map is a copy of a chart compiled for the Smithsonian Institution in 1868.

10. RECORDS RELATING TO THE GEOLOGY OF THE BLACK HILLS. ca. 1879. 2 items. [NWCS, maps and plans]

A map titled "Geological Map of the Black Hills of Dakota," and a panoramic illustration titled "Bird's Eye View of the Black Hills." On the illustration different geologic strata are indicated by symbolic birds in flight. Both items are by Henry Newton, who, with Walter P. Jenney, examined the geology and mineral resources of the Black Hills in 1875 for the Interior Department. Acts of Congress on July 31, 1876 (19 Stat. L., 120), and June 14, 1878 (20 Stat. L., 120), authorized the payment of their expenses. Newton and Jenney's report (text, 1880; atlas, 1879) appeared under the auspices of the "Powell Survey."

11. MISCELLANEOUS MAP. n.d. 1 item. [NWCS, maps and plans]

A contour drawing of an area in Utah.

12. STUDIES OF THE HENRY MOUNTAINS. n.d. 31 items. [NWCS, maps and plans]

Geologic sketches by Clarence E. Dutton and Grove K. Gilbert.

13. MAP OF UTAH TERRITORY. 1878. 2 items. [NWCS, maps and plans]

Two copies of a shaded relief map "representing the extent of the irrigable, timber, and pasture lands." The map is based on atlas sheets from the "Powell Survey" with added information from the "Hayden, King, and Wheeler Surveys." The map also shows the location of railroad lines, wagon roads, trails, telegraph lines, and towns.

14. ATLAS SHEETS OF THE GRAND CANYON. 1882. 1 vol. and 3 pages. [NWCS, maps and plans]

Titled an "Atlas to accompany the Monograph on the Tertiary History of the Grand Cañon District," by Captain Clarence E. Dutton. Comprised of dramatic panoramic scenes of the Grand Canyon and adjacent plateaus and color-coded geologic maps of the Grand Canyon and adjacent areas that were published in 1882 as sheets in the atlas of USGS Monograph 2.

15. JOSEPH HENRY WHEAT ALBUM OF RIVER, LAND, ETHNOGRAPHIC, AND MISCELLANEOUS VIEWS. 1871-74. 1 album. 3 in.

Arranged in four sections as described below and thereunder by NARA assigned number. The numbers used for the first three sections correspond to caption entries found in a journal compiled by Major John W. Powell. A copy

of that part of the journal that contains the captions accompanies the photographs. The original journal is in the National Anthropological Archives in the Smithsonian Institution. The four sections are PR, PL, PE, and PM (NWCS, still pictures).

Stereoscopic prints ranging in size from 3 in. x 4.5 in. to 7.5 in. x 9.5 in. The "River Views" are chiefly photographs of sections of the Green and Colorado Rivers, side canyons, portages, camp sites, waterfalls, and parks. Some photographs are identified in the journal as part of series such as the "Red Canyon Series," "Canyons of Desolation Series," and "Echo Park Series." The photographers were Elias O. Beaman, James Fennemore, and John K. Hillers.

The "Land Views" show plateaus, mountains, and tributary and adjacent streams such as Kanab Creek, Rio Virgin, and Servier River. The photographers were James Fennemore, and John K. Hillers.

The "Ethnographic Views" consist chiefly of various tribes of Indians living in the vicinity of the Colorado River and its tributaries, including Paiutes, Uintas, and Navajos. The photographer was John K. Hillers.

The miscellaneous items include photographs of waterfalls, geologic formations, sections of rivers, and groups of buildings. The photographers are not known.

There are annotated references to corresponding negatives for some of the photographs, which are part of the records described in series PS, entry 87. The photographs were collected by Joseph H. Wheat, a topographer with the USGS, and given to Claude H. Birdseye, Chief Topographic Engineer of the USGS, for the agency's permanent files. Other photographs taken by Wheat are described in entry 400.

United States Geological and Geographical Survey of the Territories  
("Hayden Survey"), 1847-81

The western surveys led by Ferdinand V. Hayden were begun under the provisions of the act of Congress dated March 2, 1867 (14 Stat. L., 470), that supplied appropriations to meet Federal funding deficiencies. The legislation authorized "a geological survey of Nebraska ... under the direction of the commissioner of the general land office." The next year the work was expanded beyond Nebraska by the act of July 20, 1868 (15 Stat. L., 119). From 1869 to 1873, Hayden's organization was known as the U. S. Geological Survey of the Territories; the act of June 22, 1874 (18 Stat. L., 143), added "and Geographical" to its title. Work was done in Colorado, Idaho, Montana, New Mexico, and Wyoming. This survey was terminated on June 30, 1879, by the act of March 3, 1879 (20 Stat. L., 394), the same law that founded the USGS.

Some photographs relating to the "Hayden Survey" are part of a general collection that is described in entry 41. Geologists' field notebooks compiled by Henry Gannett (Nos. 3871 and 3872), and William H. Holmes (Nos. 3878-3882) are part of the records described in entry 172. Microfiche copies of geologists field notebooks compiled by Frederic M. Endlich (Nos. 731-737), Archibald R. Marvine (Nos. 718-730, 830C and 830D, and 1963), Albert C. Peale (Nos. 1964-1977 and 2010 and 2011), and Hayden (No. 2014) are part of the records described in entry 173.

Many of the records concerning the "Hayden Survey" described in this inventory have been published as National Archives and Records Administration (NARA) Microfilm Publication M623, "Records of the Geological and Geographical Survey of the Territories ("Hayden Survey"), 1867-79."

16. LETTERS RECEIVED. Jan. 4, 1866 - Mar. 21, 1874. 10 in. 7 vols.

Arranged in rough chronological order. Several letters from Leo Lesquereux, dated 1868, are bound after the 1873 letters. Undated and partial letters are dispersed throughout the series.

Mounted and bound letters from members of Congress, editors of professional journals, popular magazines and newspapers, the Secretary of the Interior and other departmental officials, academic geologists and specialists in allied fields, railway company agents, State geological and agricultural agencies, military officers, the Smithsonian Institution and museums, the American Geographical Society and other professional organizations, lithographers and engravers, private individuals, and many others. The letters chiefly concern the processing, printing, and distribution of illustrations and reports based on Hayden's western explorations, particularly of the Yellowstone region. Other letters concern the analysis of plant and fossil specimens, theories on the composition and correlation of geologic formations, and methods of conducting topographic surveys. A few items are letters of introduction or application to accompany expeditions. Many letters are personal in content.

These letters have been published as part of NARA Microfilm Publication M623.

17. LETTERS RECEIVED. 1871-79. 4 ft.

Arranged in two alphabetical sequences, 1871-77 and 1872-79, by surname of correspondent or title of agency, and thereunder chronologically.

Chiefly letters received, but also includes statements of accounts and expenses, and telegrams. Most of the letters are from the same correspondents and concern the same subjects as the records described in entry 16.

The series also contains letters concerning Indian ethnology, especially languages, and the geological and topographical work of field parties.

These records have been published as part of NARA Microfilm Publication M623.

18.      LETTERS RECEIVED FROM PERSONS IN FOREIGN COUNTRIES. ca. 1859-79. 2 ft.

Arranged alphabetically by name of foreign country, thereunder alphabetically by surname of correspondent, and thereunder in rough chronological order.

Chiefly letters concerning the exchange of professional papers. Other letters concern Hayden's honorary membership in foreign professional societies. A few of the letters that are not in English are accompanied by a translation. About a quarter of the collection consists of letters from England. The letters from German States are filed under Germany and thereunder alphabetically by State.

The letters were published as part of NARA Microfilm Publication M623.

19.      LETTERS RECEIVED AND RELATED RECORDS FROM GOVERNMENT AGENCIES. 1867-79. 2 in.

Arranged by agency and thereunder chronologically.

Letters received, circulars, receipts, and other fiscal records from officials of the Agriculture, Interior, and Treasury Departments, the Office of Indian Affairs, and the General Land Office. The records concern the printing and distribution of Hayden's reports and maps; furnishing specimens, maps, and photographs for the Philadelphia Centennial Exhibition in 1876 and the Paris Exposition in 1878; free entry of books and equipment; disbursement of funds; and the scope of Hayden's western surveys. There are a few letters from private persons transmitted by the Interior Department.

These records have been published as part of NARA Microfilm Publication M623.

20.      PERSONAL LETTERS RECEIVED. 1847, 1853-66, 1874-76. 5 in. 2 vols.

Arranged as shown below and thereunder in rough chronological order. There is a list of the correspondents inside the front cover of each volume.

Mounted and bound letters from professional colleagues and others concerning Hayden's academic career and membership in professional societies, collection and analysis of fossil specimens, stratigraphic investigations, and publication of reports based on his work in western explorations. Many of the letters are from Fielding B. Meek, Hayden's collaborator in paleontology and stratigraphy, including all those dated 1874-76. Other correspondents include H. Haines, James Hall, Joseph Henry, Eugene W. Hilgard, Isaac Lea (the 1847 letter), Eben N. Horsford, Alpheus Hyatt, J. E. Keller, John L. LeConte, Joseph Leidy, J. Peter Lesley, Joseph Lovering, John S. Newberry, Charles C. Parry, Frederic W. Putnam, William F. Reynolds, Benjamin Silliman, Jr., William Stimpson, "Hall of the Academy of St. Louis," W. J. Taylor, Edward Tuckerman, Gouverneur K. Warren, Josiah D. Whitney, Horatio C. Wood, Jr., and Amos H. Worthen. Also included, in alphabetical sequence, is a letter signed by Ferdinand V. Hayden acknowledging his appointment as a "Lieutenant Colonel by brevet in the military service of the United States." Hayden served as a Surgeon of Volunteers during the Civil War.

These letters were accessioned by the National Archives from the Smithsonian Institution in about 1954. At that time no letters were located for surnames beginning with the letters A to G.

These letters have been published as part of NARA Microfilm Publication M623.

21. RECORDS CONCERNING THE CONTROVERSY OVER CIVILIAN VERSUS MILITARY SURVEYS AND RELATED MATTERS. ca. 1872-78. 5 in.

Arranged by subject. Many items are undated.

Includes drafts of reports, letters received, circulars, congressional documents, working notes, statements made before congressional committees, lists of geological and topographical reports based on western surveys, and petitions from universities expressing preference for civilian rather than military control of western surveys. The records concern the accomplishments of the "Hayden Survey," the work of other civilian surveys and military surveys, conflicts between the various surveys, zoological specimens, the Philadelphia Centennial Exhibition in 1876, and establishment of the U.S. Entomological Commission.

These records have been published as part of NARA Microfilm Publication M623.

The Patents and Miscellaneous Division of Record Group 48, Records of the Office of the Secretary of the Interior, include records relating to the U. S. Entomological Commission, established by an act of March 3, 1877 (19 Stat. L., 357).

22. LETTERS RECEIVED AND OTHER RECORDS CONCERNING THE WAR DEPARTMENT. 1867-74, 1876-77. 1 in. 1 vol. and unbound papers.

Arranged in two segments, mounted and bound and unbound, and thereunder in rough chronological order.

Chiefly letters received and special orders from the War Department, but also includes a few letters from the Secretary of the Interior, Treasury Department circulars, and copies of letters sent by Hayden. The records concern transportation, subsistence, equipment, disbursements, military escorts, the publication of reports, and a proposal to establish a signal station on Pike's Peak.

These records have been published as part of NARA Microfilm Publications M623.

23. SUMMARY OF ACCOUNT OF FERDINAND VANDEVEER HAYDEN WITH THE TREASURER OF THE UNITED STATES. 1869-80. 0.5 in. 1 vol.

Arranged chronologically.

A list of checks or vouchers showing the amounts of payment. A total of the payments was made at approximately monthly intervals. There is no indication to whom or for what purpose the payments were made.

This volume has been published as part of NARA Microfilm Publication M623.

24. FISCAL RECORDS. ca. 1872-80. 2 in. 1 vol. and unbound papers.

Arranged by type of record and thereunder in rough chronological order.

Receipted bills, vouchers, check stubs, letter received, and related records concerning salaries, transportation, lithography, and other expenses.

These records have been published as part of NARA Microfilm Publication M623.

25. LEDGERS. 1878-80. 2 in. 2 vols.

Arranged by name of individual or business firm and thereunder chronologically. The smaller second volume contains an index to the accounts.

The entries for each account include the date of each deposit or expense, sometimes the type of expense, and the amount. Debits are balanced against credits.

These volumes have been published as part of NARA Microfilm Publication M623.

26. LEDGER KEPT BY ALBERT CHARLES PEALE. 1871-74. 0.5 in. 1 vol.

Arranged by account and thereunder chronologically.

Each entry gives the date, to whom or for what purpose the expenditure was made (or from whom funds were received), and the amount. Most of the volume titled "Cash" appears to be an itemized record of Peale's personal expenses. A few pages are devoted to accounts for Hayden and other individuals. Debits are balanced against credits. Peale served as a geologist with the "Hayden Survey," 1871-79, and the USGS, 1883-92.

This volume has been published as part of NARA Microfilm Publication M623.

27. APPLICATIONS FOR POSITIONS, RECOMMENDATIONS, AND REQUESTS FOR PUBLICATIONS. 1870-79. 5 in.

Arranged alphabetically by surname of applicant or correspondent.

Chiefly applications submitted by professors, college students, military officers, miners, engineers, clerks, surveyors, topographers, geologists, artists, and other persons. The letters of recommendation are from members of Congress, college professors, and others. Also included are requests for geological publications.

These records have been published as part of NARA Microfilm Publication M623.

28. MISCELLANEOUS LETTERS RECEIVED. 1867-79. 0.25 in.

Arranged by correspondent and thereunder chronologically.

Letters from Edward D. Cope, Ernest Ingersoll, Joseph Leidy, Fielding B. Meek, an insurance agent, government officials, and others concerning western surveys, publications, and other subjects. Also included is a copy of a letter sent to the owner of a silver mine.

These letters may have once been part of the letters received described as entry 17.

These letters have not been microfilmed.

29. ATLAS VOLUMES. 1877, 1881. 2 volumes and 6 items. [NWCS, maps and plans]

These volumes, the first and second editions of the "Geological and Geographical Atlas of Colorado and Portions of Adjacent Territory," contain three series of maps. The first series covers the entire State of Colorado and consists of a triangulation map, a drainage map, an economic (land-classification) map, and a general geologic map (at 1:760,320). The second series consists of six topographic maps and six geologic maps of Colorado and adjacent portions of Utah, Arizona, and New Mexico (at 1:253,440). The third series consists of geologic sections and geologic panoramas. A few pages from the 1881 atlas are filed separately. All the maps are double folio.

30. MAPS OF YELLOWSTONE PARK AND ADJACENT AREAS. ca. 1868-78. 15 items. [NWCS, maps and plans]

Printed maps showing topographic features of Yellowstone National Park and areas within and adjacent to the park including Upper Geyser Basin on the Firehole River, Lower Geyser Basin on the Upper Madison River, Shoshone Geyser Basin, Mammoth Hot Springs, Gibbon Geyser Basin, and those parts of Montana and Wyoming Territories drained by the Madison, Gallatin, and Upper Yellowstone Rivers.

31. MAPS OF PARTS OF WYOMING, IDAHO, UTAH, AND ADJACENT AREAS. ca. 1877-79. 11 items. [NWCS, maps and plans]

Printed black and white maps showing topographic features; color-coded maps showing geologic strata; a color-coded map showing the land classification of economic resources (arable land, grass, forest, and coal); the east half of a map showing the locations of Salt Lake City, Ogden City, and what appears to be part of the shoreline of the Great Salt Lake; and panoramic views (on one sheet) in the vicinity of the Wind River Mountains and the Teton Range.

32. MISCELLANEOUS MAPS. ca. 1873. 3 items. [NWCS, maps and plans]

The maps are titled as follows: "Preliminary map of Southwestern Colorado and part of the Adjacent Territories showing the Location of Ancient Ruins," undated, by George B. Chittenden, Topographer; "Preliminary map of Colorado showing the region surveyed in 1873"; and "Sketch showing the Primary and Secondary Triangulation of 1873."

33. "HAYDEN SURVEY" ARTWORK. 1869-72. 53 items. 3 in.

Arranged by geographic area as described below and thereunder by assigned number. These are series HAA, HAB, and HAC (NWCS, still pictures).

Ink drawings (30 in. x 7 in.) showing panoramic views along the route of the Union Pacific Railroad in Wyoming and Utah; ink drawings (15 in. x 7.5 in.) of the Laramie Range, Platte River, and Sweetwater River Valley; and pencil sketches of areas along the Yellowstone River in Montana.

The drawings are unsigned but have been attributed to Henry W. Elliot.

34. PHOTOGRAPHS TAKEN BY WILLIAM HENRY JACKSON. 1869-78. 5 albums and loose items.  
21 ft.

Arranged by record format (original glass negatives, albums, and contact prints), and thereunder by agency assigned number. The photographs are captioned and dated. A second edition of a catalog of these photographs was published in 1875 as United States Geological Survey of the Territories Miscellaneous Publication No. 5, "Descriptive Catalogue of the Photographs of the United States Geological Survey of the Territories for the Years 1869 to 1875, Inclusive ... W. H. Jackson, Photographer." This is series HS (NWCS, still pictures).

A collection of photographs reflecting activities of the "Hayden Survey" in Nebraska, Wyoming, Colorado, Utah, Idaho, and Montana. Many of the photographs show scenes in Yellowstone Park, including creeks, waterfalls, hot springs, canyons, geologic features, and camp sites. Other photographs show prominent landmarks such as Pike's Peak, Gateway to Garden of the Gods, Garden of the Gods, Long's Peak, Berthold Pass, Mountain of the Holy Cross, Uinta Mountains, Teton Range, Pulpit Rock, Mont., Laramie Peak, Wyo., Hayden's Cathedral, and Mount Lincoln, Colo.. The photographs of towns include Wasatch, Utah, Helena, Mont., Salt Lake City, Utah, Corinne, Utah, Ogden, Utah, Willard City, Utah, Malad, Idaho, South Pass City, Wyo., Atlantic City, Wyo., Cheyenne, Wyo., and Fort Hall, Idaho. There are also a few photographs showing mining operations (flumes, hydraulic mining, "panning out," cradling, and sluicing); railroad beds and infrastructure, including railroad cuts, trestle work, bridges, and stations; military posts, including Fort Fetterman and Fort Laramie; scenes of workers quarrying granite for the Mormon Temple; Bannock Indians; and the Mission or Crow Indian Agency.

There are also photographs of the towns of Juárez and Chihuahua, Mexico.

35. PHOTOGRAPHS OF INDIAN RUINS, LANDSCAPES, AND GEOLOGIC FORMATIONS. 1874.  
0.75 in.

Arranged by agency assigned number. This is series HSA (NWCS, still pictures).

Mounted sepia prints by William H. Jackson. About half of this series is duplicated in the records described in series HS, entry 34.

36. PHOTOGRAPHS OF LAKE TAHOE AND VICINITY. n.d. 8 items.

Mounted prints published by the W. H. Jackson Photo Co., Denver, Colorado. This is series HSB (NWCS, still pictures).

United States Geographical Surveys West of the One Hundredth Meridian  
("Wheeler Survey"), 1871-80

The linear topographic surveys of the western United States conducted by the War Department before the Civil War were revived when 1st Lieutenant George M. Wheeler, of the Army Corps of Engineers, received orders to make a mapping reconnaissance of portions of southern Nevada to identify sites for military posts and transportation routes to improve communications in the Department of California. In 1871 Wheeler extended his geographical (and then also geological) reconnaissance into Arizona. On June 6, 1872 (17 Stat. L., 367), Congress began funding the plan Wheeler had submitted to Brigadier General Andrew A. Humphreys, the Chief of Engineers, for establishing an astronomical base from which to map, on 95 same-sized quadrangles, the topography of the entire country west of the 100th Meridian. Wheeler was promoted to Captain on March 4, 1879. His survey was terminated June 30, 1879, by the act of March 3, 1879 (20 Stat. L., 394), that established the USGS.

Some photographs relating to the "Wheeler Survey" are part of a general collection that is described in entry 41. Field notebooks compiled by geologist Grove K. Gilbert (Nos. 3372 to 3390) are part of the records described in entry 172.

The major portion of the records from the "Wheeler Survey" are in Record Group 77, Records of the Office of the Chief of Engineers; other records are at Fort Belvoir, Virginia, and at Yale University.

37. REPORT OF THE "WHEELER SURVEY" IN 1872. n.d. 2 in.

A handwritten draft titled "Progress Report upon Geographical and Geological Explorations and Surveys West of the 100th Meridian in 1872, under the direction of Brigadier General Andrew A. Humphries [*sic*] Chief of Engineers, by 1st Lieutenant George M. Wheeler, Corps of Engineers, in Charge." The report, published in 1874, concerns astronomical, geological, and natural-history observations; reconnaissances of mining districts in Arizona, Nevada, and Utah; agriculture and irrigation; communication routes; sites for military posts; timber lands; Indians; Colorado River canyons; and an analysis of the organization and progress of Wheeler's western explorations to 1872. The manuscript is paginated, many segments of the original are not in this file.

38. RECORDS RELATING TO INDIAN ETHNOLOGY AND SPANISH INSCRIPTIONS. 1874-80. 1 in.

Arranged chronologically.

Reports prepared by "Wheeler Survey" members and others concerning Indian dances observed at Jemez Pueblo in 1874 (two of the three drafts of this account include a sketch of a ceremonial headdress worn during the dance); a list of southwestern Indian languages compiled from observations by survey members during 1872-75; and letters concerning translations of Spanish inscriptions found on rock surfaces.

An endorsement found in the records indicates that they were once part of the Letters Received, 1824-1881, of Record Group 75, Records of the Office of Indian Affairs (file reference: I1237-1874 New Mexico).

39. PHOTOGRAPHIC PRINTS. 1871-73. 3 in.

Arranged chronologically by year of survey and thereunder numerically by original plate number. All the photographs have captions giving the subject and name of the photographer. This is series WS (NWCS, still pictures).

Mounted prints (8 in. x 11 in.) of photographs taken by Timothy H. O'Sullivan and William Bell. Chiefly landscapes showing views of the Grand Canyon; Black Canyon, Colorado River; rock formations; Alpine Lake in the Sierra Nevada, Calif.; Camp Apache, Ariz.; Inscription Rock, N. Mex.; Canyon de Chelly, Ariz.; and a mission church and houses at Zuni Pueblo.

Original negatives are in Record Group 106, Records of the Smithsonian Institution, series WB; and Record Group 77, Records of the Office of the Chief of Engineers, series WA.

40. PHOTOGRAPHIC PRINTS. 1871-73. 2 in.

Arranged by agency assigned number. All the photographs are captioned. This is series WSA (NWCS, still pictures).

Prints (8 in. x 11 in.) taken by Timothy H. O'Sullivan include views of buildings at Camp Whipple, Ariz., Camp Apache, Ariz., Camp Halleck, Nev., and Camp Mojave, Ariz.; Shoshone Falls, Idaho; the mouth of Kanab Canyon, Utah; Canyon de Chelly, Ariz.; Inscription Rock, N. Mex.; and Lt. George M. Wheeler and his survey party in camp.

*General Photographs, 1870-74*

41. STEREOGRAPHIC PRINTS OF SURVEYS OF THE AMERICAN WEST. 1870-74. 8 in.

Arranged by name of photographer - John K. Hillers ("Powell Survey"), William H. Jackson ("Hayden Survey"), and Timothy H. O'Sullivan ("Wheeler Survey"), and thereunder by assigned number. Most of the prints bear captions. This is series SV (NWCS, still pictures).

Mounted prints (3 in. x 4 in.), produced for commercial distribution, showing geologic formations, Native Americans, the Grand Canyon and canyons of tributary streams, Indian Pueblos and ruins, geysers and hot springs in Yellowstone National Park, Canyon de Chelly and other landscapes.

Original stereographic negatives for some of the prints are described in series HS, entry 34, and PS, entry 87; and Record Group 106, Records of the Smithsonian Institution, series WA.

## RECORDS OF THE UNITED STATES GEOLOGICAL SURVEY, 1839-1997

### Office of the Director, 1879-1987

The act of March 3, 1879 (20 Stat. L., 394) that established the USGS provided for the appointment of a Director, nominated by the President and confirmed by the Senate. The act made the Director responsible for planning and administering the programs of the USGS in accordance with the provisions of the establishing act and subsequent legislation, and for functioning as the agency's chief scientific officer. In the early years the Secretary of the Interior, acting on the Director's recommendations, appointed the permanent members of the USGS staff; the Director made temporary appointments. The Director also selected the leaders of the agency's geographic, thematic, and other administrative units, supervised their work, and reviewed the progress and reports documenting the data gathered and analyses made by their field and laboratory investigations. The Director was assisted in these administrative and related duties by an Executive Officer (1881-94), a Chief Clerk (from 1881), a General Assistant (1883-92), and an Assistant in Geology to the Director (1897-1900).

Legislative mandates and increased appropriations expanded the administrative responsibilities of the Director. By 1901 geologic (including hydrographic) and topographic investigations were administered by established organizational units headed by individuals with dual scientific and administrative responsibilities. In 1912 the position of Administrative Geologist was created (Survey Order 14) to serve as the Director's administrative deputy and as Acting Director in the absence of the Director.

The position of Assistant Director was established in 1944. That individual was to serve as a "principal assistant to and deputy of the Director, with commensurate authority" (Survey Order 147). In general the Assistant Director advised the Director on the long-term scientific and technical programs of the USGS. The Administrative Geologist chiefly handled matters relating to the daily management and administration of the agency.

Other specialized staff and advisory positions added to the Directors Office included the Staff Geologist for Territories and Island Possessions in 1946 (Survey Order 156; later Staff Coordinator), and the reestablished Executive Officer in 1948 (Survey Order 169). With the creation of the position of Executive Officer, the Administrative Geologist was made responsible for serving as a scientific consultant to the Director. In the 1950's the positions of Associate Director and Assistant Director were added to the Director's Office.

In the 1920's George W. Holland transferred from the General Land Office to the USGS and joined the staff as a land classifier. Holland was trained as an attorney and gave legal advice on matters under review by the Land Classification Board (later Conservation Branch). He was eventually reclassified as an Attorney in that branch. As part of a departmental reorganization in 1935 Holland was transferred to the Solicitor's staff in the Office of the Secretary of the Interior. In 1943 the Secretary of the Interior established the Office of Chief Counsel in the USGS. In 1947 the Chief Counsel's Office was organizationally placed in the Conservation Branch. In 1950 the Office of the Chief Counsel of the USGS was assigned to the Director's Office (Survey Order 205).

Under the authority of Reorganization Plan 3 of 1950 the Survey underwent an lengthy evaluation and reorganization process that ultimately reserved some of the authority that had been exercised by the Director to the Secretary of the Interior and reoriented the location and lines of authority in the operating units.

*General Records, 1879-1987*

42. INDEX TO LETTERS RECEIVED. 1880-89. 1.5 ft. 6 vols.

Arranged chronologically by year and thereunder alphabetically by name of correspondent or subject.

A typescript index to the letters received described in entry 44 showing the names of writers followed by the subject and file number of each of their letters. Entries for persons mentioned and subjects give a cross reference to the names of the writers. When a letter is referred to the USGS by another agency or member of Congress, a cross reference is made under the author's name to the agency or individual that forwarded the letter. When a person is the subject of a letter a cross reference is made to the author where an abstract of the contents appear.

These records have been published as part of National Archives and Records Administration (NARA) Microfilm Publication M590, "Letters Received by the United States Geological Survey, 1879-1901."

43. REGISTERS OF LETTERS RECEIVED. January 8, 1879 - November 12, 1901. 4 ft. 26 vols.

Arranged chronologically.

Registers of the letters received described in entry 44. The entries show the date of receipt, name and address of writer, date of letter, assigned file number, and action taken. There is one volume per year except for 1889, 1899, and 1900 for which there are two volumes. Missed letters are entered at the end of the year.

The latest consecutive entry is dated April 30, 1901. It is followed by 12 entries made in March, October, and November of letters dated in January, March, and April 1901. There is a letter dated May 1, 1901 that apparently was recorded on April 30, 1901. There is no explanation in the records to account for this enigma. No later registers have been found.

These registers have been published as NARA Microfilm Publication M157, "Registers of Letters Received by the United States Geological Survey, 1879-1901."

44. LETTERS RECEIVED. 1879-1901. 50 ft. 54 vols. and unbound records.

Arranged chronologically by year and thereunder by assigned number. For the period, 1879-89, the letters are in bound volumes. Indexes and registers for the letters received are described in entries 42 and 43.

Chiefly letters received together with reports, memorandums, tables, accounting records, maps, and other records concerning topographic and geologic surveys; investigations of coal and mineral resources, particularly in Alaska and the Western States; water-resource investigations; boundaries of forest reserves and Indian reservations; USGS publications; personnel matters; and general administration of USGS programs. The letters received from 1901 to the creation of the central classified files in 1912 do not appear to have survived.

These records have been published as part of NARA Microfilm Publication M590, "Letters Received by the United States Geological Survey, 1879-1901."

45. INDEX TO LETTERS SENT. 1879-83. 4 in. 2 vols.

Arranged chronologically by year and thereunder alphabetically by surname or official title of addressee or subject.

A typescript index to a portion of the letters sent described in entry 46 showing the name or official title of addressee, followed by the subject and page number of each letter sent. Many entries for persons mentioned and subjects give a cross reference to the addressee.

This index has been published as part of NARA Microfilm Publication M152, "Letters Sent by the United States Geological Survey, 1879-1895."

46. LETTERS SENT. July 7, 1879 - December 17, 1895. 6 ft. 35 vols.

Arranged chronologically. An index to the 1879-83 letters is described in entry 45.

Handwritten copies of letters sent to the Secretary of the Interior (including monthly and annual reports) and other Federal officials, members of Congress, geologists outside the Federal Government, heads of USGS field teams, railroad companies, engravers and publishers, and private individuals concerning topographic, geologic, and other field work, appointment and assignment of personnel, USGS publications, appropriations and expenses, and related matters. Many of the letters are followed by the file number of the pertinent letter received (entry 44).

Notations in the margins beginning in 1885 (volume 27) are probably references to press copies of the letters sent. The press copies have not survived.

The letters sent have been published as part of NARA Microfilm Publication M152, "Letters Sent by the United States Geological Survey, 1879-1895."

47. RECORDS CONCERNING A PROPOSAL TO ESTABLISH OLYMPIC NATIONAL PARK. 1891.  
4 items

These records were once part of the Letters Received, 1879-95 (entry 44) , but were removed by the National Archives staff and laminated.

The records consist of a letter from James Wickersham to John W. Powell, Director of the USGS, transmitting maps and an article concerning the proposed Olympic National Park. The maps are part of this series. The article, "An Olympic National Park in the Olympic Mountains, Washington," by James Wickersham, is filed with the letters received - file 1245-1891 (entry 44).

48. LETTERS RECEIVED BY JOHN WESLEY POWELL REGARDING HIS RESIGNATION AS DIRECTOR. May 11 - 23, 1894. 15 items.

Arranged chronologically.

The writers were Capt. John G. Bourke, Theo. B. Comstock (President, University of Arizona), Mrs. Caroline H. Dall, William M. Davis (Harvard University), L. S. Dubois, James Hall, Robert Hay, John W. Hoyt, Alpheus Hyatt, Henry B. McFarland, P. W. McKinney, Thomas C. Mendenhall (U. S. Coast and Geodetic Survey), Eugene A. Smith (State Geologist of Alabama), Ralph S. Tarr, and J. C. Welling,

49. CORRESPONDENCE AND RELATED RECORDS. ca. 1906-48. 4 ft.

Arranged alphabetically by subject. A file title list appears as Appendix 2 in this inventory.

Letters received, copies of letters sent, memorandums, reports, USGS orders and other administrative issuances, speeches and addresses, press releases, allotment statements and other fiscal records, statistical tables, congressional bills, and maps. The records concern the organization and administration of the agency's geologic and topographic mapping programs, World War I mapping programs, budgets and appropriations, USGS committees, cooperation with other Federal agencies and States, coal-land classification, mineral-resource investigations, withdrawal of land for water-power sites and other uses, and personnel matters. A few items are marked personal and confidential. A few letters are marked with correspondence control numbers assigned when the letter was received and indexed (see entry 50).

Of particular interest are two manuscripts: "Report on a proposed system of administration and improvement of the Glacier National Park," 1910, by Robert B. Marshall [Cooperation - Federal], and "The Physical History of the Yosemite Valley," 1922 by François E. Matthes [Yosemite Valley].

50. CORRESPONDENCE CONTROL CARDS. 1918-48. 175 ft.

The cards are divided into two groups. The first group of cards, from the years 1918-22, is organized in two segments. The first segment is arranged alphabetically by surname of correspondent, title of organization or agency, and thereunder chronologically. The second segment is arranged alphabetically by title of Federal agency and thereunder chronologically.

The second group of cards, from 1923-48, is organized chronologically by year and thereunder in two alphabetical sequences by surname of individual and title of agency or organization. This group also includes cards for internal communications from unit chiefs to the Director and memoranda from the Director to unit chiefs. There is only one set of cards for the years 1946 and 1947.

The 4"x 6" cards typically show the name of correspondent, date of receipt, assigned control number, date of letter, subject or abstract of contents, referrals, date of reply, and file disposition. Some cards also show a file number from the classification scheme shown in Appendix 3 in this inventory.

Most of the letters were referred to and filed in the Central Classified Files of the Office of the Director (entry 51). A few letters are found in entry 49. Letters are also found in the central files of the major program divisions: Geologic Division (entries 159 and 160), Topographic Division, later National Mapping Division (entry 288), Water Resources Division (entry 412), and Conservation Division (entry 642).

Because the cards are arranged by correspondent rather than by subject, the correspondence control cards have a limited usefulness for research purposes.

51. CENTRAL CLASSIFIED FILES. 1912-53. 226 ft.

Arranged according to a numeric-subject classification scheme. A list of extant files appears as Appendix 3 in this inventory. Several annotated copies of the file classification manual are located in entry 49 (in a file titled - Subject Classification Scheme, Central Classified Files). The files include a few items dated as early as 1899. The correspondence control cards (entry 50) can be used to locate some documents in the files. Accretions to this series are boxed separately as shown on the file list.

Correspondence, memorandums, congressional documents, telegrams, press releases, circulars, orders and other administrative issuances, agenda and minutes of meetings, allotment statements and other fiscal records, project summaries, work plans, periodic program reports, contracts and agreements, and maps.

The records concern organization and management, especially appointment and assignment of personnel, and processing and distribution of publications; administration of program areas, such as geologic and topographic surveys, water-resource investigations, particularly forest-watershed surveys, and land classification. This series also contains records concerning conferences, expositions, and meetings of professional associations; cooperation with Federal and State agencies; participation on USGS, departmental, and interagency committees, public-works programs, and defense related activities. The succeeding series of Central Classified Files, 1953-74, is described in entry 52.

52. CENTRAL CLASSIFIED FILES. 1953-74. 145 ft.

Organized in two sub-series, 1953-68 and 1969-74, and thereunder arranged according to a subject-numeric classification scheme. The records found in subordinate portions of the "Meetings" section of the files are organized by time interval, 1953-56, 1956-59, 1959-62, 1962-65, and 1965-68, and thereunder in rough alphabetical order by title of organization or organization. Within subject classes, the arrangement is chronological. A file title list appears as Appendix 4 in this inventory.

Correspondence, memorandums, regulations, orders, circulars and other administrative issuances, financial charts, reports and related records, minutes of meetings, cooperative agreements with States and municipalities, opinions of the departmental Solicitor, drafts of river compacts, press releases, program proposals and plans, and drafts of congressional bills.

The records concern policy formulation and the administration and management of USGS programs. Specific subject areas include appropriations and allotments, budget formulation and justification, personnel classifications and appointments, interdepartmental, departmental, and USGS committees, commissions and advisory groups, cooperation with Federal and State agencies and compilation and printing of maps and other publications.

Records concerning the implementation of programs are generally found among the files of USGS subordinate units.

53. MONTHLY REPORTS. 1882-90. 2.5 ft. 8 vols.

Arranged in two segments: for the years 1882-84, organized chronologically by year and thereunder alphabetically by surname of the reporting official, and thereunder chronologically by month; for 1885-90, arranged chronologically by month and thereunder by report but not alphabetically by surname of author.

Narrative reports by heads of field units and, in some instances, those by individual staff members. Some reports include maps or sketches of geologic features. Most of the 1882-84 reports and some of the later reports are annotated with assigned letters received numbers. The indexes for the letters received are described in entry 42.

These records have been published as part of NARA Microfilm Publication M590, "Letters Received by the United States Geological Survey, 1879-1901."

54. "SPECIAL MAGAZINE FILE". 1914-30. 3 ft.

The first file is marked "general", the remaining files are arranged alphabetically by name of publishing firm, publisher, publication, or journalist.

Correspondence, magazine and newspaper clippings, USGS statements and informational issuances, and related records concerning statistical data and other information furnished by the USGS for publication in newspapers, popular magazines, professional journals, catalogs, and yearbooks.

55. RECORDS CONCERNING UNITED STATES PARTICIPATION IN THE FOURTH WORLD POWER CONFERENCE. 1949-50. 1.5 in.

Arranged in rough chronological order.

Correspondence, memorandums, the report of the United States delegation, a conference program, charts, a copy of the articles of association and by-laws of the American National Committee, and related records concerning the Fourth World Power Conference held in London, July 10-15, 1950. The records also concern the status of the United States National Committee as a member of the World Power Conference, a suggestion to reorganize the United States National Section to broaden the scope of its technical work to include the social and economic aspects of world power problems, and the designation of USGS staff members to serve on a committee with representatives of the Bureau of Mines and the Federal Power Commission to prepare a report for the London meeting. Manuscript and printed copies of the report, "Energy Resources of the United States," are part of the records.

The World Power Conference was formed in 1924 with headquarters in London. The Conference facilitated the exchange of ideas between producers and consumers of power resources, and scientific and technical specialists, to find the most efficient use of the world's fuel and power resources. Other records concerning USGS participation in the conference are described in entry 268.

56. MEETING FILES. Nov. 1979 - Sept. 1987. 17 ft.

Arranged chronologically. A list of the meetings accompanies the records.

The records concern meetings and other events attended by Dallas L. Peck in his official capacity as Director of the USGS. Included are advisory boards and committees, national and international scientific organizations, regional and State associations, and foundations and events such as conventions, conferences, symposiums, and dedications. There are also records relating to meetings with USGS division and regional staffers, other government executives, particularly the Secretary of the Interior and other Interior Department officials, Presidential staff members, officials of the Commerce, Agriculture, and Energy Departments, the National Research Council, and the National Academy of Sciences.

The records include programs, correspondence, handwritten notes, agendas, schedules, copies of papers, speeches delivered by the Director and other event participants, minutes, reports, questionnaires, slides, brochures, testimony before congressional committees, and related records. The records concern discussions of current scientific topics and program areas such as earthquake-hazards reduction, coordination of the Earth Resources Observation Systems (EROS) Program, mineral exploration, and water-resources development.

*Program and Office Files, 1921-68*

57. RECORDS CONCERNING NAVAL OIL RESERVES. 1921-27. 4 in.

Arranged by subject or type of record and thereunder chronologically.

The series includes a summary history of the establishment of Naval Oil Reserves Nos. 1 and 2 (Elk Hills and Buena Vista Hills, respectively, in California) and No. 3 (Teapot Dome in Wyoming); a report of the Secretary of the Interior to the President dated June 3, 1922, submitted to Congress on June 7, 1922, concerning contracts for drilling oil wells on naval oil reserves; an unsigned, manuscript report, compiled as of 1923 and titled "History of the Midwest Organizations with Special Reference to the Oil Refining or Purchasing Contracts"; correspondence; Executive Orders; maps; geologists' summary reports; and other records concerning, litigation, leases, drilling, and withdrawals. Also contains minutes of meetings, correspondence, a draft of the final report, and other records concerning the President's Commission on Oil Reserves. The records also include references to Naval Oil Reserve No. 4 in Alaska and to Naval Oil Shale Reserves in Colorado (No. 1), and Utah.

On March 25, 1924, President Calvin Coolidge appointed a three-person Commission on Oil Reserves to consider the situation in each of the naval oil reserves, in view of the Navy's need for fuel oil, and make recommendations to protect and (or) enlarge the reserves. George O. Smith served as Chairman of the Commission.

58. HAROLD ERNEST VOKES FILE. 1942-45. 5 in.

Arranged by subject or type of record.

Draft and final copies of press releases, speeches, memorandums, reports, and internal administrative issuances concerning the organization and programs of the USGS during World War II. The records also contain information about postwar plans and a draft of a history of the USGS in World War II. Duplicate copies of parts of the draft history are part of the Records of the Office of the Secretary of the Interior, Record Group 48, in the National Archives

59. RECORDS CONCERNING USGS PARTICIPATION ON AGENCY AND INTERAGENCY COMMITTEES. 1944-68. 10 ft.

Arranged by name of committee or other organization, thereunder by type of record (when appropriate), and thereunder chronologically.

Correspondence, memorandums, minutes and summaries of meetings, program and technical reports, budget estimates and other fiscal records, organization charts, administrative and other processed issuances, and maps. The records document USGS representation on and cooperation with interagency and departmental committees, particularly those involving river basins. The USGS cooperated in the compilation of hydrologic data, mineral-resource surveys, and projects for converting saline water. The interagency committees represented in the records are those concerning the Arkansas-Red-White Basins, Columbia River Basin, Missouri River Basin, and New England-New York; field committees represented in the records concern Alaska, Colorado River, Great Basin, Eastern, Missouri River Basin, Northeast, Pacific Central, Pacific Northwest, Pacific Southwest, Phoenix, and Southwest. Others represented in the records are the committees Artificial Precipitation, Saline Water Conversion, Conservation, Research and Development. Other organizations represented in the records include the Task Force on Ecological Survey and Research, Montana Natural Resources Council, National Minerals Advisory Council, and the Federal Council for Science and Technology.

There are also files concerning the USGS's General Staff Committee including chronological files dated from August 1961 to December 1962.

*Staff Geologist for Territories and Island Possessions, 1946-53*

In 1946 the position of Staff Geologist for Territories and Island Possessions was established by Survey Order 156. John C. Reed (Sr.) was appointed to the position. Reed had been Acting Chief Alaskan Geologist. The duties of the Staff Geologist including acting as an advisor and consultant to the Director on matters relating to USGS work in the territorial possessions of the United States and coordinating the work of the major line units of the agency in those areas. The position title was later changed to Staff Coordinator for Foreign and Territorial Functions.

60. RECORDS OF JOHN CALVIN REED (SR.), STAFF GEOLOGIST FOR TERRITORIES AND ISLAND POSSESSIONS. 1946-53. 4 ft.

Arranged according to a decimal classification scheme, and thereunder chronologically. See Appendix 5 in this inventory for a file title list.

Chiefly correspondence and memorandums, but also includes statistical tables and summaries, reports, handwritten calculations and notes, quarterly reports of the Topographic Division, completed "authority of field work" forms, press releases, newspaper clippings, copies of congressional bills, minutes of meetings, travel vouchers, copies of itineraries, circulars, plats, and other records concerning Reed's role as coordinator of the various activities of the USGS in Alaska and other U.S. possessions.

Includes information relating to project proposals and active investigations and surveys in Alaska, Hawaii, Puerto Rico, Virgin Islands, and Trust Territories; appropriations and allotments for these projects and Reed's office; cooperation with other Federal agencies, including the Bureau of Land Management, Bureau of Reclamation, Bureau of Mines, War Department, Alaska Road Commission, National Park Service, and Department of Agriculture; Reed's recommendations and comments regarding projects, personnel, and publications; and his participation on committees and advisory boards, and other official activities as staff geologist.

Most of the records pertain to Alaska. Specific projects mentioned include the Alaska Terrain-Permafrost Program (dating from 1943), Alaska Volcano Investigations, Alaska Coal Investigations, and the Arctic Health Institute.

For other records on Alaska, see the records of the Division of Alaskan Mineral Resources, entries 216 and 217; records concerning the Aleutian Volcano Project, entry 249; the records of the Alaskan Geology Branch, entries 258-265; records of the Alaska Terrain and Permafrost Section of Military Geology Branch, entry 285; records concerning Land and Stream Classification, entry 675, and the Central Files of the Alaskan Branch, entry 680. For other records concerning Reed's service with the USGS, see entry 681.

*Office of the Chief Geographer, 1943-80*

Arch C. Gerlach was appointed Chief Geographer of the USGS in 1967. Since 1962 Gerlach had been on a part-time detail to the USGS from his position as Chief of the Geography and Map Division at the Library of Congress. He held the position of Staff Geographer and was responsible for organizing and managing the National Atlas Project. In 1966 he was also assigned responsibility for overseeing the newly inaugurated Geographic Applications Program in the USGS. The program was initiated by the National Aeronautics and Space Administration, which funded research centers in several government agencies to study the application of data from remote sensors in aircraft and spacecraft to cartography, geology, hydrology, and other disciplines.

Gerlach retired in 1972 and was succeeded as Chief Geographer by James R. Anderson. In 1975 the Geographic Applications Program was made part of the newly established Land Information and Analysis Office (LIA). In 1980 the LIA was renamed the Office of Earth Science Applications and the LIA's Geography Program was transferred to the National Mapping Division.

*General Records, 1950-72*

61. GENERAL ADMINISTRATIVE FILES. 1962-71. 2 ft.

Arranged by subject or type of record, and thereunder chronologically.

Correspondence, memorandums, reports, and statistical budget summaries relating to the general functions and management of the Office. Also included are correspondence regarding requests and plans for Arch C. Gerlach to deliver lectures, write articles or review books, and copies of publishers' appraisal forms; correspondence, memorandums and reports regarding the proposed and approved plans for the USGS Geographic Applications Program, especially the Earth Resources Observation Systems Program, and the USGS Urban Program, in which the Geography Office cooperated in a study of stress areas resulting from urban growth; agenda, minutes, reports of meetings, and other records relating to the mapping of quantitative information, orbital remote-sensing data, and the development of the mineral resources of the oceans.

62. WORKING PAPERS OF ARCH CLIVE GERLACH. 1950-72. 10 in.

Arranged by subject or type of record, and thereunder chronologically.

Personal professional correspondence, memorandums, published papers, copies of speeches and lectures, newspaper clippings, award certificates, photographic prints, and other memorabilia concerning Gerlach's career and professional activities as a geographer and government official. Also includes correspondence, copies of itineraries, passports, and certifications documenting Gerlach's travels as an employee of the Library of Congress and as a member of various professional organizations, particularly the Pan American Institute of Geography and History (PAIGH) and the International Geographical Union (IGU), employment applications, reports of security investigations, and other personnel records relating to Gerlach's career with the Federal government.

Other records relating to PAIGH are described in entries 67-78.

63. RECORDS CONCERNING ARCH CLIVE GERLACH'S PARTICIPATION IN INTERNATIONAL PROFESSIONAL ORGANIZATIONS. 1950-72. 3 ft.

Arranged by subject, and thereunder chronologically.

Correspondence, memorandums, agenda, minutes of meetings, reports, conference papers, copies of resolutions and directives, statistical summaries, bulletins, maps, and other records concerning Gerlach's participation and leadership in international professional organizations and their committees and conferences. The organizations documented include the International Geographical Union (IGU), the Pan American Institute of Geography and History (PAIGH), and the International Cartographic Association.

Also contains correspondence, memorandums, reports, bulletins, and maps relating to Gerlach's role in the publication of an International Atlas by Rand McNally and Company in 1969; lists and some payment requisitions for expenses incurred by members of the U.S. National Committee of the IGU; transparencies, magazines and photographic prints used in the U.S. National Exhibit at the 21st International Geographical Congress in 1968; photographic prints of standard exhibit panels prepared by the USGS's Exhibits Committee relating to geographic topics; and reports in Spanish (some have English translations).

64. RECORDS CONCERNING THE CATALOGING OF CARTOGRAPHIC MATERIALS. 1953-55. 0.5 in.

Arranged by type of document.

Correspondence, memorandums, reports, minutes of meetings, and processed issuances regarding the classification and cataloging of cartographic materials. Included is a Special Libraries report on map cataloging (1953), and an IGU report on map classification (1955). Gerlach was a member of the Commission on the Classification of Geographic and Cartographic Publications. These records were maintained by Gerlach while he was Chief of the Map Division at the Library of Congress. The records include printed reference material dated 1904.

65. RECORDS CONCERNING THE GEOGRAPHIC APPLICATIONS PROGRAM. 1965-71. 8 ft.

Arranged by subject or type of record, and thereunder chronologically.

Correspondence, memorandums, reports, manuscripts, publications, and other records relating to the general functions and programs of the Geographic Applications Program (GAP); agenda, minutes of meetings, working papers, conference papers, conference summaries, manuscripts, publications, statistical summaries, newsletters, chronological files (January 1, 1967 to December 31, 1971), graphs, charts, and maps documenting the relationship between the Chief Geographer and the Program, and the plans and projects of the committees and conferences sponsored by the National Academy of Sciences, the National Research Council, the Earth Resources Observation Systems (EROS) Program, the National Aeronautics and Space Administration (NASA), the Interagency Committee on Land Use Information and Classification, and the Agency for International Development. Also included are photographic prints of some GAP exhibits, and the participants in an EROS Program meeting in 1971; transparencies and photographs used as illustrations at meetings of NASA's Aircraft Program; and copies of flight logs and mission reports from NASA's remote-sensing aircraft missions.

66. REEL-TO-REEL TAPES. June 1971. 3 items

A taped record of some of the sessions of the Interagency on Land Use Information and Classification Conference in June 1971. Summaries of the tapes are with the records described in entry 65.

Records relating to the Pan-American Institute of Geography and History, 1943-80

The Pan-American Institute of Geography and History (PAIGH) was created in 1928 by a resolution of the sixth Inter-American Conference of Ministers in Havana. The Institute's mission is to encourage, coordinate, and publicize geographic and historical studies concerning the Western Hemisphere and to promote international cooperation among the American nations in these fields. In 1929 the Institute's headquarters were established as a General Secretariat in Mexico City. The organization functioned independently until 1949 when it was absorbed by the Organization of American States (OAS) and became the first of six specialized institutes.

The Institute's work is accomplished through its General Assembly, Directing Council, General Secretariat, Commissions, and National Sections. The General Assembly, usually meeting quadrennially, and Directing Council, usually meeting annually, are responsible for determining administrative and program policies that are implemented by the General Secretariat. In 1943, 1947, 1949, and 1969, respectively, Commissions on Cartography, Geography, History, and Geophysics were created to concentrate efforts in these specialized fields. Most technical work is performed by the Commissions, their Committees, and their Working Groups. A quadrennial Consultation (Conference) is held by each Commission at which current projects are evaluated, new projects are authorized, and scholarly and technical presentations are made. Each member nation is represented in equal numbers in the General Assembly, Directing Council, and Commissions. A National Section is comprised of all the members of a particular nation's delegation to PAIGH.

67. RECORDS RELATING TO THE PAN-AMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY. 1955-77. 5 in

Arranged by type of document.

Correspondence, membership lists, copies of articles, annual and semi-annual reports, newspaper clippings, photographs, and lists of training films available through PAIGH. The records relate to appointments of Institute officers, cooperation with national sections, budget matters, and status of projects, particularly the tectonic and geologic maps of South America, and the TANDIL Project - consisting of experimental work to determine the accuracy of photogrammetric surveys. Some of the records are in Spanish.

68. RECORDS RELATING TO MEETINGS OF THE GENERAL ASSEMBLY. 1945-77. 10 in.

Arranged chronologically by meeting and thereunder by subject.

Chiefly programs, including draft versions, agenda, including preliminary and final, lists of delegates, and printed copies of the "Final Act" - a report on the organization and processing of a meeting of the General Assembly. Also included are memorandums, photographs of exhibits and groups of delegates, reports of the United States delegation, lists of maps and reports, guidance and position papers for the U. S. delegation, and other records. The records concern the planning and organization of meetings of the general assembly. There is some information about preliminary meetings and meetings of the Consultation on Cartography.

Some of the records are in Spanish.

69. RECORDS RELATING TO MEETINGS OF DIRECTING COUNCIL. 1956-72. 5 in.

Arranged chronologically by meeting.

Chiefly reports of the United States delegation to the Council, correspondence, reports of consultations, and final reports of meetings. Some of the records are in Spanish.

The Directing Council, comprised of one delegate from each member country, meets annually between assemblies to carry out the administrative business of the institute.

70. RECORDS RELATING TO THE COMMISSION ON CARTOGRAPHY. 1957-79. 15 in.

Arranged by subject.

Correspondence, memorandums, agenda, progress reports, copies of technical papers, lists of members, minutes of meetings, resolutions and other records relating to the organization, meetings, and work programs of the committees and subcommittees of the Commission. There are also other records concerning the reorganization of the Commission in 1966 and the establishment of an aerial-camera test range in Latin America.

71. RECORDS CONCERNING CONSULTATIONS ON CARTOGRAPHY. 1943-73. 2 ft.

Arranged chronologically by date of consultation and thereunder by subject.

Chiefly programs and agenda, minutes, reports of committees and subcommittees, reports of the U. S. delegation to the Commission on Cartography, resolutions and recommendations, final acts, and copies of technical papers, but also including correspondence, memorandums, exhibit lists, photographs of exhibits, handwritten notes, and itineraries.

The records concern the coordination of work programs and the exchange of data between national sections under the auspices of the technical committees and subcommittees of the Commission on Cartography.

72. RECORDS RELATING TO THE COMMISSION ON GEOGRAPHY, THE COMMISSION ON HISTORY, AND THE SPECIAL COMMITTEE ON GEOPHYSICAL SCIENCE. 1944, 1950-75. 3 in.

Arranged by commission or committee.

Chiefly processed issuances on PAIGH letterhead comprising summary minutes, reports, resolutions, and recommendations, but also including correspondence, and minutes of meetings. The records relate to commission and committee functions, organization, and personnel. The 1944 item is a copy of the program for the Second Pan American Consultation on Geography and Cartography. Some of the records are in Spanish.

73. RECORDS RELATING TO THE WORKING GROUPS OF THE COMMISSION ON CARTOGRAPHY. 1961-78. 5 in.

Arranged by work group and thereunder by type of record.

Correspondence, copies of technical papers, reports and other records concerning the meetings and recommendations of the working groups. The recommendations addressed such matters as map symbols and standards, geodetic control networks, use of digital map data, and technical map specifications.

74. RECORDS OF THE UNITED STATES NATIONAL SECTION. 1961-69. 5 in.

Arranged in rough chronological order.

Correspondence, list of members of the National Section of the United States (1968), draft regulations (1961), a draft copy of a "statement in support of legislation to authorize [a] U. S. Contribution to the Pan American Institute of Geography and History" (1965), and a paper titled "Program Narrative - Pan American Institute of Geography and History."

The records concern membership, organization, and objectives of the National Section, the nomination of Arch C. Gerlach to be Vice President of PAIGH in 1964, and discussion about the United States quota payment to the Institute.

75. RECORDS OF THE UNITED STATES NATIONAL SECTION OF THE COMMISSION ON CARTOGRAPHY. 1964-80. 10 in.

Arranged in four sections: correspondence, meetings, special projects, and progress reports, and thereunder in rough chronological order.

Correspondence, memorandums, minutes of meetings, lists of delegates, agenda, copies of the reports of the United States National Section to the Commission, and related records. The records concern the preparation of Section reports and exhibits, submission of technical papers, nominations for United States vacancies on committees and working groups of the Commission, discussion of proposed resolutions, formulation of work programs, and review of budget and administrative issues.

There are some reference materials dating from 1954 in the last folder.

76. RECORDS RELATING TO THE TECHNICAL CONFERENCE ON SPECIAL MAPS. 1965. 1 in.

Arranged by type of record.

Memorandums, programs, list of delegates, a captioned group photograph of participants, speeches, working group discussion guides, copies of technical papers, and a list of equipment owned by the Military Geographical Institute of Peru.

The conference was held January 18-26, 1965, in Ottawa, Canada.

Some of the records are in Spanish.

77. *BOLETIN AEREO*. 1955-72. 3 in.

Arranged as follows: the Spanish language original, from March 1955 to September-October 1972, and an English translation, from September-October 1967 to January-February 1971.

The newsletter disseminates a summary of the activities of PAIGH.

78. REFERENCE MATERIAL. ca. 1948-76. 5 in.

Arranged by meeting or name of organization.

Technical papers, agenda, programs, minutes of meetings, delegate and membership lists, printed reports and brochures, photographs, speeches, correspondence, and memorandums concerning meetings, conferences and symposiums sponsored by international organizations relating to cadastral surveys and mapping. The meetings include the First Pan American Conference on Cadastre (1971), Conference of Latin American Geographers (1970), I Symposium on the Natural Resources of Cuba (1958), North American Symposium on Urban Surveys and Mapping (1969), and United States National Working Group on Cartography (1961-62).

There is also a file concerning studies sponsored by the Division of Earth Sciences of the National Academy of Sciences (1960-61).

*General Cartographic Records, 1839-1981*

79. MAPS SHOWING THE LOCATIONS OF POST OFFICES. 1839. 2 items. [NWCS, maps and plans]

A map of Illinois and Missouri, and a map of Mississippi, Louisiana, and Arkansas showing the locations of post offices, post roads, canals, and railroads. The maps were compiled by David H. Burr.

80. MAP SHOWING ARMY DEPLOYMENT IN FLORIDA. 1856. 1 item. [NWCS, maps and plans]

A "Sketch showing the Positions and Communications Established by the Army in its Operations against the Seminole Indians South of Mosquito Inlet, Florida."

81. MAP OF THE UNITED STATES. ca. 1880. 12 items. [NWCS, maps and plans]

A mounted oversize manuscript map of the United States in 12 sections. The large-scale map shows State and county boundaries, cities and towns, railroad lines, and Indian reservations.

82. PLATS OF TAXABLE LANDS IN MCCORMICK COUNTY, SOUTH CAROLINA. 1934. approx. 240 items. [NWCS, maps and plans]

The small tracings, which show land surveys, are arranged numerically by school district, 1 to 27, and thereunder by site. There are no folders for districts numbered 12, and 20 to 23. There are also two folders for unlisted sites and a folder containing alphabetical lists of land owners, taken from tax lists.

83. ORGANIZATION CHARTS AND AN ADMINISTRATIVE MAP. 1935-53. 24 items. [NWCS, maps and plans]

The series consists of charts showing organizational relationships within the USGS, a map showing the locations of the principal field offices of the agency (1953), and a historical organization chart for the Water Resources Division compiled in 1953.

84. MAPS THAT ACCOMPANIED A REPORT TO THE OFFICE OF THE NATIONAL PETROLEUM RESERVE. 1981. 2 ft. [NWCS, maps and plans]

Arranged in record cases Nos. 2 to 5.

Exploration maps and charts of areas in Alaska compiled as part of a Technical Services Contract. Included are depth, structure, isopach, and paleoenvironmental maps; correlation cross sections; and test charts and diagrams. There is no narrative report with these records.

In 1976 Naval Petroleum Reserve No. 4 was renamed the National Petroleum Reserve in Alaska. The Office of the National Petroleum Reserve in Alaska (ONPRA) was established in the Office of the Director of the USGS in 1977 to oversee and manage the program. In 1984 the Barrow gas fields, Walakpa gas discovery site, and other lands within the reserve were transferred to the North Slope Borough for exploration and development.

*General Photographs, 1864-1959*

85. PHOTOGRAPHIC PRINTS OF VIEWS OF THE WESTERN UNITED STATES AND OTHER SUBJECTS. ca. 1864-1910. 23 items.

Arranged by NARA-assigned number. This is series MW (NWCS, still pictures).

The series consists of unidentified views of landscapes in the Western United States, including views of mountain ranges and bodies of water. The identified photographs include an autographed portrait of John W. Powell; a view of the Uinta Mountains; a prospector "mushing" the trail on the Fairbanks-Valdez Road in Alaska; Twin Falls of the Snake River, Idaho; a group portrait of USGS personnel taken about 1882; and a portrait of the members of the State Geological Survey of California, taken in 1864, which includes Clarence King.

86. PHOTOGRAPHIC PRINTS OF THE WEST BY WILLIAM HENRY JACKSON. ca. 1869-86. 1 ft.

Arranged by NARA-assigned number and thereunder roughly by size. This is series WJ (NWCS, still pictures).

Mounted prints that provide photographic documentation of the areas explored by the "Hayden Survey," especially mountain ranges, canyons, water falls, and hot springs, in and adjacent to Yellowstone National Park. Other subjects include views of a Shoshone Indian village and its chief, Washakie, the Cimarron landslide in Colorado in 1886, and Chihuahua, Mexico.

Interspersed are some photographs stamped "W. H. Jackson Co.," which were taken by Jackson after he established a commercial photography business in Denver in 1879.

Original negatives for some of the prints are described in series HS (entry 34).

87. THE JOHN K. HILLERS PHOTOGRAPHIC COLLECTION. ca. 1871-1900. 4 albums and loose items. 12 ft.

Arranged by format (mounted, unmounted, and glass-plate negatives), and thereunder unarranged. Most of the photographs have captions and dates. A caption list prepared by the agency is available for researcher use at the National Archives. This is series PS (NWCS, still pictures).

The photographs were collected by John K. Hillers (originally Johann Karl Hillers), a photographer with the "Powell Survey," who joined the USGS in 1881 and served as Chief of its Photographic Laboratory, 1883-1900. Many of the photographs were taken by Elias O. Beaman, James Fennemore, and Hillers, photographers with the "Powell Survey." The subjects include the Colorado and Green Rivers, and adjacent tributaries and canyons; geologic formations, landscape scenes, and panoramas; settlements and railroad stations; survey party members, camp sites, boats and other equipment; and Indian ruins.

Other photographs illustrate early activities of the USGS including scenes of damage caused by the 1886 Charleston earthquake; views of geologic formations near Baltimore and at the head of Chesapeake Bay; Niagara Falls and the New River, West Virginia; mountains, rivers, springs, waterfalls, mines, and quarries in the southeastern United States; Zion and Yellowstone National Parks; and wax models from a mountain-making laboratory experiment done by Bailey Willis in 1891.

88. PHOTOGRAPHS OF USGS PERSONNEL. n.d. 1 in.

Arranged in two sets - geologic staff and topographic staff. This is series OV (NWCS, still pictures).

Oval-portrait photographs (about 2.5 in. high) mounted on unbound album pages. The first set includes photographs of geologists, geologic aids, assistant geologists, palaontologists, and statisticians. The second set includes photographs of topographers, assistant topographers, topographic engineers, junior engineers, and geographers. Most of the photographs are captioned with the name of the individual, position titles, and what may be dates of service.

89. PHOTOGRAPHS TAKEN IN THE FIELD BY GEOLOGISTS, HYDROLOGISTS AND OTHER PERSONNEL OF THE USGS. ca. 1871-1959. 18 ft. 140 albums.

Arranged by name of photographer (chiefly geologists) or subject. Some of the albums do not give the name of the photographer. Some of the albums have a table of contents. Many of the photographs are captioned. This is series GH (NWCS, still pictures).

Photographs taken by geologists include subjects such as geologic strata, natural rock formations, landscapes, and panoramic views; mines and mining facilities, miners' homes, quarries, ore pits, mills, and processing plants; iron, manganese, sandstone, limestone, and bauxite deposits; beach ridges, corals and sand dunes; and undated aerial photographs of parts of the Potomac River and tributary streams near Washington D. C. and the New Jersey coastline. There are photographs from most regions of the United States, and Yukon Territory, the Panama Canal Zone, the Bahamas, Haiti, the West Indies, and Brazil. The photographers named on the album covers are Edwin H. Barbour, Ernest F. Burchard, Charles Butts, Robert R. Coats, C. Whitman Cross, Lincoln G. Eakins, Henry G. Ferguson, Ernest Howe, James Jackson, Willard D. Johnson, Philip B. King, Esper S. Larsen, Willis T. Lee, Hugh D. Miser, Fred H. Moffit, Louis M. Prindle, John R. Stacy, Lloyd W. Stevenson, Thomas W. Vaughan, Wendell P. Woodring, and Ralf R. Woolley. Other photographers are named on the captions that accompany many of the pictures.

Several USGS parties visited Alaska. Their photographs cover towns, mines, logging operations, and dog stations (Prindle, 1903); marble quarries (Burchard, ca. 1913); cabins, glaciers, mines and thin sections (Moffit, 1940); and native activities, USGS camps, and glaciers (Coats, 1940-47).

Of particular interest are photographs of Indian hogans and pictographs (Lee); photographs taken in 1959 of damage from an earthquake in Montana (Stacy); buildings made of local sandstone and granite (Burchard); homemade windmills in Nebraska in 1898 (Barbour); photographs in Switzerland and of the Jura Mountains in 1887 (Jackson); and a captioned group portrait of district engineers who attended a Water Resources Division Conference of District Engineers on October 17-23, 1923 (box 6).

Photographs taken by hydrologists chiefly document various surveys of the Grand Canyon and adjacent areas. Included are a collection of stereoscopic prints of boats and equipment, survey party members in camp, geologic formations, and landscapes attributed to Hillers taken during his service with the "Powell Survey," 1871-72 (box 2); photographs showing river scenes, Indian pictographs, and landscapes taken by Eugene C. LaRue during a survey of the Grand Canyon, and Cataract and Glen Canyons in 1914-23 (8 albums); and photographs of the Grand Canyon area taken by Norman W. Carkhoff in 1901 while with a party of geologists that included Nelson H. Darton, Walcott, and Gilbert (box 1). One album contains photographs, taken in 1918-21, of constructed and proposed dam sites, power plants, reclamation and power project sites, waterfalls, lakes, rivers, and ranches located chiefly in Idaho, Montana, Utah, and Wyoming. Also included are photographs taken by Ralf R. Woolley during a survey of the Green River Basin, 1920-22; camp sites, dinosaur quarries, dams under construction, streams, power plants, reservoirs, and proposed dam sites located in the western United States, 1923-29; and scenes of Silver City, New Mexico, 1924, Chicago, Illinois, 1927, Ogden, Utah, 1929, and Rainbow, Utah, 1929. The Woolley photographs are in 3 albums.

Some of these photographs are duplicated in other series held by the Still Pictures Division. These albums once were part of a large collection of albums held by the USGS. It is possible that there will be significant accretions to this series.

90. MISCELLANEOUS PHOTOGRAPHS. n.d. 8 items

Unarranged. [Filed with the textual records.]

Undated and untitled photographs including posed groups of individuals (one is annotated with the dates of the resignation, transfer or death of the pictured individuals), office scenes, and what appears to be a formal dedication of a building, perhaps the new Interior Department Building.

#### Administrative Division, 1879-1972

In the early years of the USGS, the Director administered the agency's programs and supervised its personnel with the sometime assistance of an Executive Officer, a General Assistant, a Chief Disbursing Clerk, and a Chief Clerk, who was responsible for the preparation of USGS letters and reports, action on incoming letters, and preparation of forms and maintenance of other records relating to appointments and personnel. In 1894 the Director merged these and other functions in an Administrative Branch. The new branch included a Division of Documents, Correspondence, and Records; the Library; and a Division of Disbursements and Accounts. A decade later the Administrative Branch comprised three divisions--Executive, Disbursements and Accounts, and Illustrations--and the Library.

By 1920 the Administrative Branch was composed of the Executive Division, Division of Accounts, Division of Scientific and Technical Field Equipment, and the Library. In 1925 the Administrative Branch was abolished by Survey Order 116, but the functions and duties of the former Branch remained under the supervision of the Chief Clerk. In 1948 Survey Order 168 abolished the position of Chief Clerk and the Administrative Geologist temporarily assumed supervision of many of the Chief Clerk's duties. That same year the position of Executive Officer was reestablished by Survey Order 169 as a staff position in the Director's Office to advise the Director in matters relating to business management with supervision of functions formerly under the Chief Clerk. Supervision of the Library had been transferred to the Geologic Branch in 1947.

In 1953 Survey Order 222 established an Administrative Division under the Executive Officer comprised of the Budget Office, Organization and Management Office, Accounts Branch, Service and Supply Branch, and Rocky Mountain Service and Supply Branch, in Denver, Colorado (established in 1951). In the next two years the USGS established within the division a Pacific Coast Branch, in Menlo Park, California, a Mid-Continent Branch in Rolla, Missouri, and an Atlantic Branch, in Washington, D.C.

#### *Records concerning Personnel, 1879-1965*

##### 91. APPLICATIONS REGISTER. Jan. 1879 - Apr. 1886. 2 in. 1 vol.

Arranged by year and thereunder by assigned number. The front of the volume contains an index to applicants. The index is divided into Ethnologic Applications and Geologic Applications.

Entries include the file number, name of applicant and residence, date of application, position applied for, by whom recommended, action, and remarks. Applications are filed with the records described in entry 44. The pages used in the volume are folios 1-120 and 200-202.

##### 92. APPOINTMENTS REGISTER. 1879-90. 1 in. 1 vol.

Arranged by name of appointee. The front of the volume contains an index to appointees.

Entries include the name of the appointee, position, State of birth, State appointed from, date of appointment, where employed, compensation, and remarks. Notes concerning resignations and reappointments extend to 1895. No other appointments registers have been found.

Records relating to the appointment of USGS personnel, from 1879 to 1907 are part of the records of the Appointments Division, Record Group 48, Records of the Office of the Secretary of the Interior.

93. PERSONAL STATEMENTS. 1921-24. 5 in.

Arranged alphabetically by name of employee.

Statements completed by USGS employees showing their position and salary, date and place of birth, race (if colored), marital status, employment history and military service. Some forms also requested education information, and names and positions of relatives in U.S. Government service. Most of the forms were completed in 1922.

94. RECORDS RELATING TO PERSONNEL CLASSIFICATION. 1921-41. 5 in.

Arranged by subject or type of record.

Departmental and other circulars (chiefly issued by the Bureau of Efficiency, Civil Service Commission and Personnel Classification Board), memorandums, reports, and summaries of service ratings and final ratings for the Personnel Classification Board concerning the classification, efficiency ratings, and promotions of USGS employees. Most of the records date from 1923.

The Personnel Classification Board was established as an independent board under the provision of the Classification Act approved May 4, 1923 (42 Stat. L., 1488). The Board was abolished June 30, 1931 and its functions assumed by the newly created Personnel Classification Division of the United States Civil Service Commission.

95. PERSONNEL "NOTES." 1926-34. 3 in.

Arranged chronologically.

Processed issuances, usually compiled at one-week intervals, showing appointments, assignments and transfers, furloughs, changes of address, changes of name of newly married female employees, and retirements for central office and field staff.

96. TABULATIONS OF PERSONNEL ALLOCATIONS AND RELATED RECORDS. 1959-65. 8 in.

Arranged by year and thereunder by type of record.

The bulk of the series consists of computer printouts titled "Detail of Personal Services," 1959-65. The contents are arranged by organizational unit and thereunder in groups by grade of employee. Columnar information includes name of employee, grade, position title, organization code, and salary. A second set of computer printouts is titled "Payroll Master Listing," 1964-65. The contents are arranged in rough alphabetical order by name of employee. Information about each employee includes their grade, salary, organization code, and date of birth.

Also included are completed oversized statistical tables titled "Summary of Obligations for Research and Development, R & D Plant and Data Collection; and Manpower Requirements for Research and Development." The forms, completed in 1962, project data for fiscal years 1961-66 and 1970. The data was compiled for a study undertaken by the National Science Foundation for the Federal Council for Science and Technology.

*Records concerning Administration, 1901-72*

97.      **REPORTS.** 1901-12, 1926-27, 1930. 2 ft.

Arranged by year, thereunder by type of report, and thereunder by USGS unit.

Monthly, annual, and administrative reports received by the Director of the USGS concerning the personnel, status of projects, projected program of work, and other subjects from organizational units and individuals in charge of field parties. Some reports are accompanied by statistical tables or lists. A few of the reports are edited and annotated. The 1926-30 (monthly) reports are from the Geologic Division. Also included are copies of a few reports from the Director of the USGS to the Secretary of the Interior.

98.      **ESTIMATES OF APPROPRIATIONS AND RELATED RECORDS.** 1925-49. 2 ft.

Arranged chronologically by year, and thereunder by type of record.

Completed statements, and forms accompanied by justifications concerning annual budgets. The records were compiled 1925-1949 and concern fiscal years 1926-50. There are no records for fiscal year 1931 in the file.

99.      **RECORDS CONCERNING BUDGET FORMULATION.** 1932-69. 19 ft.

Arranged in two segments: first (1932-45), chronologically by year and thereunder by type of record; and second (1946-69), chronologically by year and thereunder by assigned number.

In the second segment, the last two digits of the fiscal year in which the file was compiled precede the file number for files created to 1958; thereafter, the fiscal year follows the file number.

Budget estimates, summaries and justifications, allotment statements, tabular reports, directives, circulars and other administrative issuances, organization charts, graphs, correspondence, memorandums, and press releases. Also contains records concerning research and development, interagency, regional and State programs, foreign- survey projects, and personnel.

100.     **ORGANIZATIONAL RECORDS.** 1925, 1944-69. 1.5 ft.

Arranged by type of record, organizational unit or subject.

Chiefly organization charts and Survey Orders (Nos. 150 to 252) and Amendments, but also including correspondence, memorandums, management studies, handwritten notes, minutes and meetings, and other records concerning the organizational structure and functions of the organizational units of the USGS. There are also records concerning the impact of the Interior Department's regionalization program on the USGS. The records include a list of Survey Orders (1 to 252) that shows the date, subject, and status of each order.

There are no separate organizational files for the Water Resources or Alaska Divisions, although these units are discussed in memorandums and studies that are part of the records. The 1925 item is a USGS organization chart.

101. ADMINISTRATIVE ISSUANCES. 1950-72. 8 ft.

Arranged by type of issuance and thereunder chronologically as follows: Administrative Memoranda, 1950-56 [boxes 1 and 18]; Administrative Circulars, 1951-55 (Nos. 1 to 88) [box 1]; Manual Releases, 1956-72 (Nos. 1 to 1299) [boxes 2-12 and 19]; Survey Orders, 1951-59 (Nos. 212 to 251) [box 13]; and Administrative Digests, 1952-72 (Nos. 1 to 576) [boxes 13-17]. Revisions and amendments of numbered issuances are filed by approval date. These sets are not complete.

Chiefly draft and final copies of issuances, including related forms and charts, issued by the authority of the Director of the USGS, or an official designated by the Director, and were effective throughout the agency. Draft, background, and signed copies of the issuances are interspersed.

The *Administrative Memoranda* and *Administrative Circulars* interpreted policy regarding administrative actions and set forth the formal procedures for preparing and processing contracts, authorizations, travel orders, and other forms. Both issuances were replaced by the *Manual Releases* which gave notice of official changes in the official *Manual* of the USGS. *Survey Orders* supplemented the *Manual* in providing detailed explanations of organizational changes, definitions of unit functions and relationships, and the establishment of USGS boards, committees, and other advisory bodies. *Administrative Digests* were intended to inform succinctly USGS managers about all changes or actions that effected agency policy and programs.

102. DEPARTMENT OF THE INTERIOR PRESS RELEASES RELATING TO THE USGS. 1928-59. 10 in.

Arranged chronologically.

Processed press releases announcing the results of hydrologic and geologic investigations and the availability of maps and charts for public examination or for sale. A few of the press releases are accompanied by maps. This series does not contain press releases for 1929, 1930, 1936, 1937, and 1939.

Press releases relating to the USGS are found in several post-1907 series in Record Group 48, Records of the Office of the Secretary of the Interior.

Division of Book Publication, ca. 1874-1995

In the early years of the USGS the Director, the Executive Officer, and the Chief Clerk oversaw the editing of the agency's publications. By 1884 the volume of manuscript material to be reviewed prompted the Director to delegate regular editorial responsibility to an Editor. In 1894 a Publications Branch was established composed of an Editorial Division (thereunder Sections of Textual Publications, Geologic Maps, and Topographic Maps), a Division of Illustrations (thereunder a Photographic Laboratory), and a Division Engraving and Printing.

In 1912 the functions of the Branch were placed under the supervision of the Administrative Geologist. In 1953 Survey Order 223 established a Publications Office. In 1959, by Survey Order 252, that Office was succeeded by a Publications Division under the supervision of a Publications Officer. The Division consisted of the Office of the Division Chief, the Branch of Texts, the Branch of Technical Illustrations, the Branch of Map Reproduction, and the Branch of Distribution. In 1980 the Publications Division was abolished; its responsibilities for producing texts and maps were assigned, respectively, to the Geologic Division and the National Mapping Division. Responsibility for producing geologic maps later passed to the Geologic Division.

*General Records, 1879-1995*

103. CATALOGS OF PUBLICATIONS OF THE USGS. 1879-1969. 9 vols. [NWCS, maps and plans]

The first volume covers publications for 1879-1961. The remaining volumes are annual supplements. The supplements do not form a complete set.

104. LISTS OF NEW PUBLICATIONS OF THE USGS. 1970-95. 99 items. [NWCS, maps and plans]

Arranged by list number.

A monthly catalog.

105. PUBLISHED CIRCULARS. 1970-87. 6 vols. and 3 items. [NWCS, maps and plans]

Arranged by Circular number.

Circulars 601-C, 758, 810, 826, 1003, and 1011. These Circulars are not accompanied by separate maps. The map that accompanied Circular 780 is in this series, but that Circular is not in the series.

*Illustrations Section, ca. 1874-1948*

106. PRESS COPIES OF LETTERS SENT BY THE DIVISION OF ILLUSTRATIONS. August 19, 1891 - January 7, 1904, and November 26, 1904. 4 in. 4 vols.

Arranged chronologically. The dates overlap between the volumes. The first and last volumes contain indexes.

Letters sent to the Director of the USGS, the Government Printing Office, and authors of monographs and others concerning the processing and review of maps, photographs, drawings, and other illustrations published by the USGS in its official publications and annual reports. Also includes monthly and annual narrative reports to the Director about the work of the Division.

107. PRESS COPIES OF LETTERS SENT BY THE SECTION OF ILLUSTRATIONS. July 11, 1898 - July 6, 1938. 4 ft. 16 vols.

Arranged chronologically. Most of the volumes are indexed by subject.

Chiefly letters to the Director of the USGS recommending illustrations to be included in agency publications, annual reports on the work of the Section (beginning with fiscal year 1903), and requesting the transfer and assignment of personnel to the Section. Also includes letters to other USGS officials, the Government Printing Office, engravers, and authors of papers undergoing review, and copies of instructions that accompanied the illustrations concerning the type and method of reproduction. Beginning in 1904 the volumes contain mounted carbon copies of letters sent.

These volumes were begun by John L. Ridgway, who succeeded De Lancey W. Gill as Chief of the Section, when Gill resigned to become the Illustrator at the Bureau of American Ethnology.

108. RECORDS OF THE COMMITTEE ON ILLUSTRATIONS. 1900-1909. 5 in. 2 scrapbooks.

Arranged chronologically. The second volume (1904-9) contains an index to authors and subjects.

Includes minutes of committee meetings, memorandums, letters to the Director of the USGS recommending maps and other illustrations for monographs, publication summaries, bulletins and reports published by the USGS, regulations governing the transmittal of illustrations to the agency, and handwritten notes.

The committee, chaired by the Chief of the Illustrations Section, comprised representatives from the divisions that submitted proposed publications for review.

109. ILLUSTRATIONS FOR BULLETINS. 1884-1948. approx. 1500 items. [NWCS, maps and plans]

Arranged numerically from 4 to 960.

Chiefly mounted drawings, maps charts, photographs, graphs, and etchings, which accompanied bulletins of the USGS including information relating to paleontology, mineralogy, geology, geography, oceanography, petrology, and related sciences. Some earlier illustrations, have the same letter number and date of receipt stamps as the related original incoming correspondence was filed the letters received, entry 44.

110. ILLUSTRATIONS FOR MONOGRAPHS. 1890-1915. approx. 300 items. [NWCS, maps and plans]

Arranged numerically from 1 to 54. There are gaps in the records.

Mounted drawings, maps, photographs, photomicrographs, photoengravings, charts, geologic profiles, and other records relating mostly to paleontology, geology, mineralogy, petrography, glaciology, and topography. There are a considerable number of records relating to the iron-bearing districts of the United States and many drawings illustrating paleontological discoveries. Of particular interest are the records for USGS Monograph 32, Part 2, "Geology of the Yellowstone National Park." Most of the illustrations are captioned and the maps include color keys. A manuscript copy of a portion of Monograph 32, Part 1 is part of the records described in entry 146.

111. ILLUSTRATIONS FOR PROFESSIONAL PAPERS. 1902-38. approx. 700 items. [NWCS, maps and plans]

Arranged numerically from 2 to 215. There are gaps in the records.

Chiefly mounted photographs, diagrams, sketches, maps, photomicrographs, and charts. There are also instructions for reproduction of material.

112. ILLUSTRATIONS FOR WATER-SUPPLY PAPERS. 1905-48. approx. 600 items. [NWCS, maps and plans]

Arranged numerically from 140 to 999. There are gaps in the records.

Photographs, charts, graphs, diagrams, plans, drawings, maps, and other records.

113. ILLUSTRATIONS FOR ANNUAL REPORTS OF THE USGS. 1882-1932. approx. 200 items. [NWCS, maps and plans]

Arranged by date of publication. The illustrations are for the 2d to 53d annual reports of the USGS. There are no records for reports 5, 6, 10, 24 through 44, or 47 through 49.

Photographs, microphotos, diagrams, drawings (chiefly of fossils), graphs, sketches, maps and other records to accompany annual reports.

114. ILLUSTRATIONS FOR MISCELLANEOUS PUBLICATIONS. ca. 1874-1932. approx. 150 items. [NWCS, maps and plans]

Arranged according to a list that is with the records.

Drawings, charts, maps, photographs geologic profiles, graphs, sketches, diagrams, and other records relating to various publications issued by the USGS, filed in envelopes with the following labels: "Preparation of Illustrations", by John L. Ridgway; "Physiographic Folio No. 2 of the Geology and Mineral Resources of the Copper River District, Alaska"; "Topographic Atlas - Folio No. 3 of the Bird's Eye View of Niagara River and Vicinity"; "Trademark of the United States Geological Survey"; "Handbook for Topographers"; "Handbook for Field Geologists"; "Manual of Instructions for Topographic Surveying"; "King's Survey of the 40th Parallel - [Fielding B.] Meek's Report"; and "Contributions to Paleontology," by Charles A. White (extracted from the 12th Annual Report of the "Hayden Survey").

Also included are illustrations relating to military camps; illustrations to accompany reports on the Cape Nome, Norton Bay, and Copper River areas; and the original and proofs of a special map made for President Harding's trip to Alaska in 1923; and a copy of a map of Washington D. C. compiled for the Conference on the Limitation of Armaments.

115. ILLUSTRATIONS FOR CIRCULARS. 1933-34. approx. 50 items.[NWCS, maps and plans]

Arranged by Circular number 2, 6, 7, 8, and 9.

Maps, diagrams, graphs, photographs, and other records.

116. ILLUSTRATIONS FOR PRESS MEMORANDA. 1923-25. approx. 80 items. [NWCS, maps and plans]

Arranged according to a list that is with the records.

The series is comprised chiefly of maps, but also includes some diagrams, graphs, charts, copies of press notices, and other records illustrating geology, gas fields, oil, potash development, gold mines, coal beds, quicksilver deposits, cooperative geological surveys, wells, production of electric power, nonmetallic mineral resources, and the availability of water.

117. STOCK ORIGINALS. n.d. approx. 35 items. [NWCS, maps and plans]

This series includes a view of Mt. Rainier from Paradise Peak; a view of the Niagara River and vicinity; illustrations for an atlas of Texas; and an envelope of "stock cuts" for USGS Water-Supply Papers.

118. LISTS OF ILLUSTRATIONS. ca. 1917-33. approx. 200 items. [NWCS, maps and plans]

Unarranged.

Each oversized card lists the illustrations, usually by chapter, for one USGS publication. There are cards for Bulletins, Water-Supply Papers, Monographs, Professional Papers, and Guide Books. In addition to giving to publication series and number, the cards provide a brief description of each illustration, state the type of original illustration (photograph, drawing, tracing), furnish a record of the form of reproduction (zinc etching, halftone), state the printed size, and note the approval of proofs.

119. PHOTOGRAPHIC PRINTS. n.d. 3 in.

Arranged alphabetically by name of photographer and thereunder by subject. This is series ISC (NWCS, still pictures).

Mounted prints showing the Grand Canyon, Glacier National Park, Yellowstone National Park, Devils Tower, mountains, glaciers, geologic features, waterfalls, river canyons, deserts, and landscape scenes in Alaska, Arizona, California, Colorado, Georgia, Maryland, Montana, Nebraska, New Mexico, North Carolina, South Dakota, Utah, Washington, and Wyoming. The photographers are identified on the prints as [Ralph] Arnold, [Marius R.] Campbell, [Robert H.] Chapman, [Norman W.] Carkhuff, [C. Whitman] Cross, [Nelson H.] Darton, [Grove K.] Gilbert, [Robert] T. Hill, [John K.] Hillers, [Albert] Johannsen, [Arthur] Keith, [Walter C.] Mendenhall, [Charles D.] Walcott, and [Bailey] Willis.

120. ILLUSTRATIONS. n.d. 3 items.

Unarranged. This is series ISD (NWCS, still pictures).

The illustrations consist of an 11 in. x 14 in. mounted watercolor of a field which is signed by De Lancey W. Gill who was, according to the caption, in charge of the USGS Division of Illustrations; an 8 in. x 11.5 in. unmounted lithograph with the caption "view of The Black Forest, Mount Hope and Sierra Prieta," by E. Stout (taken from a sketch made by Albert H. Campbell for the topographical report of the Pacific Railroad Survey of the 35th Parallel); and a 3 in. x 7 in. unmounted watercolor of a tree-lined road with a caption on the reverse "found in Hersey Munroe's photo album[.] Wells probably painted this for Mr. Munroe, Topographer."

121. PHOTOGRAPHIC PRINTS. ca. 1881-1941. 5 in.

Arranged by Professional Paper and thereunder by NARA assigned number. A few of the photographs have captions. This is series ISA (NWCS, still pictures).

Various sized halftone prints showing streams, ponds, geologic formations, and landscapes used as illustrations in USGS Water-Supply Paper 489, "The Occurrence of Ground Water in the United States, with a Discussion of Principle" (by Oscar E. Meinzer, 1923), and gaging stations used as illustrations in USGS Water-Supply Paper 871, "Summary of Yearly Discharge at Gaging Stations in North Atlantic Storage Basins" (anonymous, 1941).

122. PRINTS AND CORRESPONDING NEGATIVES OF PANORAMAS IN THE VICINITY OF THE COLORADO, GREEN, AND SAN JUAN RIVERS. ca. 1930. 0.5 in.

Arranged by agency assigned numbers. Narrative descriptions of the photographs accompany the records. This is series ISB (NWCS, still pictures).

Photographs taken by Harry A. Aurand, Consulting Geologist, showing mesas, plateaus, buttes, and geologic formations. The photographs are annotated with names of topographic and geologic features.

The photographs were sent to Roger W. Toll, Superintendent of Yellowstone Park, in 1935.

*Texts Section, 1887-1916*

123. PRESS COPIES OF LETTERS SENT BY THE SECTION OF TEXTS. Oct. 29, 1887 - Dec. 31, 1906. 10 in. 5 vols.

Arranged chronologically. Volumes 3, 4, and 5 contain partial indexes.

Copies of letters sent to authors, printers, USGS officials, and other persons concerning the editing, processing, and printing of technical papers submitted to the Division for publication.

Also includes copies of periodic progress reports from the Section to the Director.

124. REPORTS OF THE SECTION OF TEXTS. Jan. 1907 - Dec. 1916. 10 in. 4 scrapbooks.

Arranged chronologically.

Monthly and annual reports to the Director on the status of USGS publications.

*Records concerning the "Geologic Atlas of the United States," 1893-1945*

125. RECORDS CONCERNING THE PRODUCTION AND DISTRIBUTION OF THE "GEOLOGIC ATLAS OF THE UNITED STATES" AND OTHER USGS PUBLICATIONS. 1893-99. 0.5 in.

Arranged by subject, and thereunder roughly chronologically.

Correspondence, memorandums, circulars, statistical summaries, handwritten notes, a list of atlas sheets to be published, and other records concerning the production, distribution, and publicizing of the "Geologic Atlas of the United States" and its folios during 1893-97. There is also a report dated July 27, 1894, from a committee appointed by the Director "To prepare a plan for the distribution of the atlas folios." The committee was comprised of Grove K. Gilbert, Samuel F. Emmons, and Bailey Willis. Included are a few documents relating to Monographs and Bulletins published by the USGS during 1895-99. Related records are described in entry 146.

In 1889 the USGS began the process of shaping the format of a proposed series of published geologic-atlas sheets. The folios were published from 1894 to 1945. In 1949 the Director discontinued the publication of the geologic-atlas folios and approved a new series of geologic-quadrangle maps.

126. GEOLOGIC ATLAS FOLIOS. 1894-1945. approx. 240 items. [NWCS, maps and plans]

Arranged by folio number.

Each folio contains a general introduction and an essay on the area covered by the atlas sheets. Some folios also contain topographic maps and copies of photographs. Most of the folios are bound.

#### Division of Engraving and Printing, 1890-1988

In 1882 the USGS presented its plan of publication for its texts and maps, including general nomenclature, colors and symbols for geological cartography, and conventional characters for diagrams. By 24 Stat. L., 255 (August 4, 1886) Congress prohibited the USGS from preparing illustrations for or publishing its reports until appropriations were made for these purposes in response to the detailed estimates of the costs of engraving, printing, and binding required from the agency for Fiscal Year 1888 and thereafter. High-quality chromolithographs and other images from stone distinguished many of the visual products in the early years of the USGS and those of its four predecessor surveys, but the lowest-bid contracts required of the Public Printer also produced nonuniform maps and illustrations. In 1890 the USGS hired a Chief Engraver and established the Division of Engraving and Printing. In 1894 the division became a part of the Publications Branch.

The Division also did a considerable amount of lithographic work for other Government agencies. The outside work during slack intervals enabled the Division to maintain a large enough work force to expeditiously process USGS maps during times of heavy demand.

#### 127. MAP REPRODUCTION CARDS. ca. 1901-13. 7 ft.

Arranged alphabetically by name of job.

Cards (4 in. x 6 in.), titled "Correction Sheet," "Miscellaneous Work," "Geology" or "Topographic Sheet," that give information such as job number, dated entries tracing the progress of the job, and dates completed and delivered.

The cards show orders for a wide variety of items including mineral-survey plats, atlas sheets, index maps, cross-section rulings, charts, diagrams to accompany Presidential Proclamations, farm unit plats for reclamation projects, fire-escape signs, ledger sheets, and index circulars. In addition to filling requests for USGS offices, the unit also did work for the Bureau of Indian Affairs, Forest Service, Hydrographic Office, Weather Bureau, Interstate Commerce Commission, Territorial Governors, the Post Office Department, and other agencies.

#### 128. SYMBOLS USED ON TOPOGRAPHIC AND GEOLOGIC MAPS. ca. 1890-1984. 7 items. [NWCS, maps and plans]

Brochures, tables, memorandums, and instructions showing lettering, conventional signs, symbols and features used on topographic and geologic maps.

#### 129. PRINTING SAMPLES AND INSTRUCTIONS. ca. 1911-23. 34 items. [NWCS, maps and plans]

Arranged by format.

Mounted geologic sheets; photographs; drawings from photographs; and sketches of rock samples, geologic strata, flora, and fossils illustrating color-coding schemes and methods of color-enhancing photographs. The printed instruction sheets show the symbols to be used on maps.

#### 130. SAMPLES OF TECHNIQUE. ca. 1947-48. approx. 30 items. [NWCS, maps and plans]

Included are examples of quadrangle maps compiled in the field, planimetric sheets showing contouring by field personnel, multiplex-compilation sheets, color separations, and metal mounts.

131. RECORDS CONCERNING PATENTS. ca. 1936-39. 3 in.

Arranged by patent.

Chiefly copies of patents obtained by Federal employees and others for plotting machines and processes of making maps from aerial photographs, aerial-photograph calculators, and other apparatus for compiling maps from photographs. Also includes correspondence regarding Charles Collier's patent for the "Slotted Templet Method" for making maps.

The original patents date as early as 1887.

132. GENERAL CORRESPONDENCE FILES. 1941-49. 2 ft.

The files are arranged by assigned number. A file title list appears as Appendix 6 in this inventory.

Chiefly correspondence, but also includes memorandums, reports, technical circulars, instructions for map-processing methods, maps, and other records concerning the organization and work of the Division, map publication and distribution, cooperation with other agencies and State geological surveys, and the development of map-processing methods.

133. PUBLISHED MAP PLATES AND CHARTS FROM BULLETINS. ca. 1904-78. approx. 240 items. [NWCS, maps and plans]

Arranged numerically by Bulletin number from No. 16 to No. 1451. A few of the maps are folded.

134. PUBLISHED MAPS FROM MONOGRAPHS. ca. 1934-64. 21 items. [NWCS, maps and plans]

Copies of maps that accompanied Monographs No. 11 to No. 64.

135. PUBLISHED MAPS FROM PROFESSIONAL PAPERS. ca. 1901-88. 10 vols. and approx. 600 items. [NWCS, maps and plans]

Arranged by number assigned to the Professional Papers.

Various sized maps that accompanied USGS Professional Papers numbered 20 to 1386B. There are also a few copies of the Professional Papers. Included are two copies of USGS Professional Paper 950, "'Nature to be Commanded': Earth-Science Maps Applied to Land and Water Management," (1978). About one-third of the maps are folded.

136. MAPS THAT ACCOMPANIED WATER-SUPPLY PAPERS. 1914-72. 100 items. [NWCS, maps and plans]

Arranged by Water-Supply Paper from No. 338 to 2039-B.

137. MAPS THAT ACCOMPANIED OPEN FILE REPORT 86-482. 1987. 3 items. [NWCS, maps and plans]

The title of the report is "Potential for Aquifer Compaction, Land Subsidence, and Earth Fissures in the Tucson Basin, Pima County, Arizona."

The major program areas of the USGS began in the Geologic Division's ancestral units. In 1879 Director King organized the USGS in two thematic units (Mining Geology and General Geology) and four geographic-geologic divisions (Rocky Mountain, Colorado, Great Basin, and Pacific) west of the 100th Meridian. King planned to establish similar geographic units for the region east of that meridian as soon as Congress officially extended USGS work outside the public-land States and Territories. Geologists in these divisions studied and mapped stratigraphic sequences, geologic structures, and mineral deposits. They were accompanied in the field by topographers who produced the large- to small-scale cartography required as bases for the geologic maps. Investigations and mapping by the field parties generated data and analyses that informed the early work of the Land Classification Board.

By the late-1880's Director Powell had abolished King's geographic-geologic divisions and their headquarters at Denver, Salt Lake City, and San Francisco. In their place he created a geologic unit of nine geographic and three thematic divisions, supported by eight divisions--six of paleontology, one of chemistry and physics, and one of petrography--all of which were centered at Washington, D.C. In 1889 Powell combined all these divisions in a Geologic Branch led by Grove K. Gilbert, who served as its "Chief Geologist" until 1892 when that position and the paleontologic units were discontinued. Charles D. Walcott, as "Geologist in charge of Geology and Paleontology" during 1893-94, abolished the remaining divisions and organized the staff as a single unit. Each experienced geologist and paleontologist was made chief of an independent field party, to carry out with younger aides geologic investigations within specific regions. These chiefs continued to report to Walcott after he became the third Director. In 1900 Walcott reorganized the Geologic Branch into eight thematic divisions, each in charge of a specialist, to separate the scientific and administrative control of the work. In 1902, Walcott united the Divisions of Areal Geology, Pleistocene Geology, Paleontology, Economic Geology or Metalliferous Deposits, and Economic Geology of Nonmetalliferous Deposits, as the Division of Geology and Paleontology. To head the new division, Walcott selected C. Willard Hayes, who led the nonmetalliferous unit, as the "Geologist in Charge." In 1907, just before he became the Smithsonian Institution's fourth Secretary, Walcott requested the Secretary of the Interior to change Hayes' title to "Chief Geologist." As Chief Geologist, Hayes led a Geologic Branch composed of the Geologic Division (also known as the Division of Geology and Paleontology), the Division of Alaskan Mineral Resources, the Division of Mining and Mineral Resources, and the Division of Chemical and Physical Research.

Reorganizations continued in the Geologic Branch after 1904. In 1944 the Geologic Branch was recast into three divisions - Administrative Division, Division of Economic Geology, and Division of Areal Geology and Basic Sciences. In 1946 the Division of Economic Geology comprised the sections of Metalliferous Deposits, Non-Metalliferous Deposits, Fuels, Trace Elements, and Foreign Geology. The Division of Areal Geology and Basic Sciences was composed of the sections of Engineering Geology, Areal Geology, Chemistry and Physics, Paleontology and Stratigraphy, Geophysics, Petrology, Military Geology, and Geologic Information and Reports.

The appropriations act of August 7, 1882 (22 Stat. L., 329), directed the USGS to undertake the collection of statistics relating to mines and mining, other than gold and silver. A core staff was formed to do the work. That staff became the Division of Mining and Mineral Resources. The statistical compilations prepared by the Division were published annually as "Mineral Resources of the United States." The Division was transferred to the Bureau of Mines in 1926. In 1996 a portion of the disestablished Bureau of Mines joined the Geologic Division as its Minerals Information Team.

Chemical laboratories were established in the Denver and San Francisco field offices in 1880 and 1882, respectively, to conduct analyses of rock and mineral samples. The act of August 7, 1882, specifically directed the USGS to make chemical analysis of iron, coal, and oil. In 1883 a central laboratory was set up in Washington, D.C. under a Chief Chemist. By 1890 the two field laboratories were closed and all the analysis work was centered at headquarters. There are no records of the Division described in the inventory, but there are records concerning the Division in the central files of the Geologic Branch (entries 159 and 160).

Cooperative geologic mapping and research with the States began in 1899.

A Division of Alaskan Mineral Resources was established in 1903 and became an independent branch in 1922. The Land Classification Board was established in 1908 and became an independent branch in 1912.

In 1947 administrative oversight of the Library was transferred from the Office of the Chief Clerk to the Geologic Branch.

To handle increased administrative demands on the Chief Geologist and coordinate programs of the Division, the staff position of Executive Officer was established in 1947. In 1948 two Assistant Chief Geologists were appointed. In 1949 the Branch was renamed the Geologic Division and the Divisions were converted to Branches with subordinate sections. By 1953 many of the sections had been reorganized as branches. Several branches had been relocated to field offices, including the Engineering Geology and General Geology Branches in Denver, the Alaskan Geology Branch in San Francisco, and a small, but growing, branch of the Library in Denver.

Samuel Franklin Emmons Papers, 1879-87

Samuel F. Emmons joined the United States Geological Exploration of the Fortieth Parallel ("King Survey") as a volunteer assistant geologist. When the USGS was created in 1879 Emmons was appointed one of the agency's five principal geologists.

138. REGISTER OF LETTERS RECEIVED. July 16, 1879 - May 22, 1887. 2 in. 1 vol.

Arranged chronologically. There is an index at the beginning of the volume.

A register of letters received showing correspondent's name, date of letter, date received, subject, and file number. The letters, which dealt primarily with administrative and support services, have not been found.

139. LETTERS RECEIVED. 1880-85. 3 in.

Arranged as follows and thereunder chronologically: Geological Survey Headquarters, Miscellaneous, Andrew A. Blair, George F. Becker, C. Whitman Cross, Arnold Hague, Ernest Jacob, William H. Leffingwell, Anton Karl, Clarence King, John D. McChesney, Raphael Pumpelly, James C. Pilling, Alfred M. Rogers, Charles D. Walcott, and Allen D. Wilson.

The letters concern geologic and topographic field work (a few letters constitute progress reports), publication of reports, compilation of statistical data concerning mineral resources for the Tenth Census, and assignment of personnel. Many of the letters in the miscellaneous file are from mining engineers, officials of mining companies, and academic geologists.

These letters are not entered in the register described in entry 138

140. LETTERS SENT. Sept. 1879 - Dec. 1887. 5 in. 2 vols.

The entries are arranged chronologically. Each volume contains a partial index.

Handwritten copies of outgoing letters signed by Samuel F. Emmons, Geologist in Charge, or Alfred M. Rogers, Disbursing Agent. The letters concern the geologic and topographic work of the Rocky Mountain Division. Many of the letters are scientific reports, narrative reports of monthly progress reports, or concern administrative matters.

*Arnold Hague Papers, 1867-1929*

Arnold Hague served as a salaried assistant geologist with the United States Geological Exploration of the Fortieth Parallel ("King Survey"). When the USGS was created in 1879, Hague was appointed one of the agency's five principal geologists. In 1883 Hague headed a party, including geologist Walter Weed, physicist William Hallock, and chemist Frank Gooch, that mapped and studied the geologic structure, geysers, and hot springs of Yellowstone National Park and adjacent areas.

141. LETTERS RECEIVED. 1880-1916. 5 in.

Arranged in two groups: chiefly letters from the Director and Chief Clerk of the USGS, arranged chronologically (July 20, 1880 - February 26, 1906); and letters arranged alphabetically by correspondent's surname (1882-1916).

The first group also includes copies of letters from Hague to the Director of the USGS, and a letter from John W. Powell regarding the revision of regulations governing the publication of geologic-atlas sheets.

The second group consists of letters from (in most cases the files contain only one to a half-dozen items): George S. Anderson, 1894, 1897; Carl Barus, 1883; Irving E. Beeman, 1904; Charles P. Berlesy, 1904; Julius Bien & Company, 1905; L. D. Burling, 1913; George W. Card, 1905; Victor K. Chestnut, 1904; Hiram M. Chittenden, 1894-1904; Frank W. Clarke, 1884; John M. Clarke, 1916; C. Whitman Cross, 1882-83; William H. Dall, 1902; Arthur P. Davis, 1906; Arthur L. Day, 1916; Walter W. de Lacy, 1888; Clarence E. Dutton, 1884; Robert L. Faris, 1916; Myron L. Fuller, 1916; Archibald Geikie, 1896-97; Frank A. Gooch, 1887-88; G. Brown Goode, 1894; William H. Hallock, 1883-1911; Georgianna A. Hallock, 1912; Moses Harris, 1888; Ferdinand V. Hayden, 1885; J. E. Haynes, 1915; C. Willard Hayes, 1902-8; William H. Holmes, 1908; Joseph P. Iddings, 1890-96; Thomas A. Jaggar, Jr., 1895-1926; Albert Johannsen, 1908; David S. Jordan, n.d.; James F. Kemp, 1912; Francis P. King, 1897-98; Frank H. Knowlton, 1894, 1907; Samuel P. Langley, 1896; Andrew C. Lawson, 1907; Elmer Lindsley, 1898; John W. Meldrum, 1916; Thomas M. Moody, 1888; Richard B. Moore, 1906-9; Theodore S. Palmer, 1893; Albert C. Peale, 1884, 1906; Francis C. Phillips, 1887-92; Gifford Pinchot, 1905; John Pitcher, 1902; Richard Rathbun, 1916; Charles W. Raymond, 1887; John L. Ridgeway, 1904; W. F. Sanders, 1884; Charles S. Sargent, 1897; W. A. Satchell, 1898-1916; Timothy W. Stanton, 1894-96; Charles H. Stuart, 1888; Lester F. Ward, 1889; Walter H. Weed, 1889-1914; George M. Wheeler, 1884; James E. Whitfield, 1888; and George M. Wright, n.d. The second group also contains a few copies of letters sent.

The letters primarily concern Yellowstone National Park, specifically topographic and geologic surveys, publications, analysis of waters from hot springs, and observations on eruptions of geysers. Included are letters from the Park Superintendent, Army officers posted at Yellowstone, USGS and academic geologists, Smithsonian Institution officials, and private persons commenting on articles about Yellowstone.

142. PRESS COPIES OF LETTERS SENT. 1881-1904. 16 in. 12 vols.

Arranged in two groups: eight volumes, dated 1881-93; and four volumes, dated 1887-1904. Most of the volumes contain partial indexes. The first volume contains a few letters dated 1886 and 1892.

Copies of typed and handwritten letters to USGS officials, members of professional societies, academic and foreign geologists, conservationists, publishers, Army engineers, Secretaries of the Interior, railroad company executives, mining engineers, members of Congress, and superintendents of Yellowstone Park. Included are reports on field work, information concerning publications, estimates of expenses, rock and mineral samples, legislation, status of Yellowstone Park, forest reserves, geologic nomenclature, and related matters. Many of the letters contain personal information about Hague but many of the handwritten letters are illegible.

For later letters, see entry 143.

143. UNBOUND LETTERS SENT. 1904-16. 1.5 in.

Arranged chronologically.

Typescript copies of letters sent by Hague to USGS officials, academic geologists, publishers, officials of the Smithsonian and others concerning publications about Yellowstone Park, proceedings of professional societies, and related matters. Earlier letters sent are described in entry 142.

144. RECORDS CONCERNING NATIONAL FOREST POLICY. 1890-97. 1 in.

Arranged in rough chronological order.

Correspondence, memorandums, reports, copies of legislative bills and congressional documents, and other records concerning management of the Nation's forest resources. Many of the records concern the work of a committee appointed by the National Academy of Sciences, as requested by the Secretary of the Interior on February 15, 1896, to consider and recommend a national-forest policy.

Arnold Hague served on the committee.

145. BIOGRAPHICAL NOTES CONCERNING OTHNIEL CHARLES MARSH. n.d. 1 in.

Arranged in two groups: handwritten notes and typewritten text.

Outlines, memorandums, and reminiscences concerning Marsh's life and career compiled for a biography, including a copy of an article published in the USGS's 21st Annual Report, pp. 189-204. There are notes on events in Marsh's life dating from the late 1860's. These records were found among Hague's official papers.

146. WORKING PAPERS AND REFERENCE MATERIAL. ca. 1883-1915, 1929. 3 ft.

Arranged by subject or type of record. See Appendix 7 in this inventory for a summary list of file contents. A detailed checklist of the series contents is with the records.

Handwritten and typed chapter drafts (by Hague and others), lists of rock and fossil specimens, abstracts of geologic field notebooks, illustrations, chapter outlines, correspondence, printed items, photographs, and other records gathered by Hague for use in compiling Parts I and II of U. S. Geological Survey Monograph 32, "Geology of Yellowstone National Park." Part II was published in 1899 as "Descriptive Geology, Petrography, and Paleontology," by Hague and six other authors. The series includes the nearly completed manuscript (22 of 23 chapters) for Part I, "General Geology," which was not published. The records concern geologic strata, hot springs and geysers, volcanic activity, plant life, geologic nomenclature, and related matters.

Also included are records concerning "The Geologic Atlas of the United States," and geologic surveys in Cuba and Puerto Rico.

147. RECORDS RELATING TO YELLOWSTONE NATIONAL PARK AND OTHER MATTERS. 1883-1915. 1 in.

Arranged chronologically.

Letters, memorandums, lecture notes, and other records concerning Yellowstone Park, the United States Geological Exploration of the Fortieth Parallel ("King Survey"), geographic names, James Bridger, and other matters.

148. ABSTRACTS FROM GEOLOGISTS FIELD NOTEBOOKS CONCERNING THE YELLOWSTONE REGION. 1883-97. 1.5 in.

Arranged in four intervals: 1883-89, 1884-91, 1893, and 1897, and thereunder by author or subject. The dates are those of the abstracted notebooks.

Typescript abstracts, including information on hot springs, geysers, glaciation, drainage, rock types, and climate. The region covered includes large areas outside the present-day boundaries of Yellowstone National Park.

Most of the original field notebooks and many related notebooks are part of the records described in entry 172. The abstracts are chiefly from notebooks 3832 through 3953.

149. METEOROLOGICAL DATA. 1885-89. 3 in.

Arranged in four sets: 1885-86, 1885-87, 1885-89, and 1888-89, and thereunder by location and date.

Temperature and barometric pressure observations taken by two Army surgeons posted at Camp Sheridan and three members of the USGS. Most of the data was collected at Mammoth Hot Springs. The records include an undated, unsigned report of precipitation and evaporation data recorded for areas in Yellowstone Park.

150. PUBLICATIONS. 1869-1912. 4 in.

Arranged by subject.

Chiefly published and reprinted monographs and articles by Hague and others concerning the exploration and geology of the Yellowstone area, annual reports of the Superintendent of Yellowstone National Park (1880, 1882-83, 1885-89, 1891-92, 1894-96, and 1903), and a tourist map of the Park based on explorations in 1882. Included is an offprint of an article titled "On the Discovery of Actual Glaciers in the Mountains of the Pacific Slope," by Clarence King, 1871, from *The American Journal of Science and Arts*. The dates given in the title line are publication dates.

151. PRESS COPIES OF LETTERS SENT CONCERNING DISBURSEMENTS. 1886-93. 2 in. 2 vols.

Arranged chronologically. Each volume has an index to surnames of addressees.

Letters and completed forms concerning expenses incurred by the field parties working in Yellowstone Park. The letters are signed by Hague, as Special Disbursing Agent. Most of Volume 2 was not used.

152. REFERENCE MAPS. 1867, ca. 1878-91, 1916. 76 items. [NWCS, maps and plans]

Included are triangulation maps, contour drawings, and sketches plotted and compiled by Henry Gannett in 1878 while he was with the "Hayden Survey"; General Land Office maps of Oregon, Washington, and Wyoming; maps showing geologic sections and strata; an undated blueprint map showing the layout of Fort Yellowstone; and undated drawings and maps of various geysers and basins.

The earliest item is a map, published in 1867, of the "Yellowstone and Missouri Rivers and their Tributaries" as explored by Capt. William F. Reynolds in 1859-60. The map is color coded to show the approximate areas occupied by various indigenous Indian tribes, including the Sioux, Mountain Crows, Gros Ventres, M [*illegible*], Mandan, Blackfoot, Blood, and River Crow. The 1916 item is a map of the glacier system of the Pacific Forestry Reserve.

153. ANNOTATED CONTOUR SHEETS. 1897. 4 items. [NWCS, maps and plans]

Annotated contour sheets, 2 each for the Crandall Creek and Ishawooa areas. Some of the annotations label topographic features and geologic strata. The name Francis J. P. King appears on the sheets.

154. YELLOWSTONE SURVEY TRACINGS. Oct. 19, 1885. 6 items. [NWCS, maps and plans]

Arranged by assigned number from 1 to 6. There is no number 5.

Tracings showing surveys of hotel sites at the Grand Canyon of Yellowstone Falls, Norris Geyser Basin, Upper Geyser Basin, and in the vicinity of Old Faithful Geyser. The tracings are signed "B. P. Tilden, Surveyor."

155. ORIGINALS AND PROOFS OF A YELLOWSTONE FOLIO. ca. 1883-85. 48 items. [NWCS, maps and plans]

A bundle of materials consisting chiefly of parts of topographic-quadrangle maps (some are annotated); contour drawings; geologic maps; blueprint maps showing areas in and adjacent to Yellowstone National Park; caption lists; a narrative introduction; and a columnar sheet listing geysers, springs, rivers, and other water-sample collection points, giving the date of sample collection, temperature, the results of various chemical analysis, and remarks. Entries on the columnar sheet are dated 1883-85. The remainder of the records in this series are undated.

156. TRACINGS OF RIVER CHANNELS IN YELLOWSTONE NATIONAL PARK. ca. 1884. 7 items. [NWCS, maps and plans]

Cross-section and profile tracings of river and creek channels in Yellowstone National Park. Numbers assigned to streams on the tracings correspond to numbers on a rough drawn map of the waterways in the Park. A note states that these tracings were done by [William] Hallock.

157. REFERENCE FILE OF WILLIAM HENRY WEED. ca. 1878-83. 17 items. [NWCS, maps and plans]

The series consists of topographic and geologic maps and drawings used by William H. Weed as part of his work in Yellowstone National Park under Arnold Hague. Included are maps of Mammoth Hot Springs, Upper Geyser Basin, and other areas in Yellowstone National Park compiled by Henry Gannett when he was with the "Hayden Survey" and later when he served as Chief Geographer of the USGS; and an undated geologic map of the Upper Geyser Basin that is annotated "topography by Anton Karl, sketched by Joseph Bien, geology by Arnold Hague and William Henry Weed."

*General Correspondence and Field Notebooks, 1867-1970*

158. INDEX TO THE GENERAL CORRESPONDENCE FILES (OF THE GEOLOGIC DIVISION). 1899-1915. 3 in.

Arranged alphabetically by subject. Entries for individual documents are arranged chronologically or by subject.

An incomplete index on 5 in. x 8 in. cards to the records described in entry 159. In addition to a file number, the entries include the date, author, and (or) subject of each document. There are no entries for individuals. There are entries for government agencies. Most of the entries date from 1902. There are cross references to a small card index which is not among the records in the National Archives. Some documents indexed in this series were not found in the records described in entry 159.

159. GENERAL CORRESPONDENCE FILES. 1890-1922. 18 ft.

The files are arranged by subject or surname of individual and arranged numerically. The contents of the files are in rough chronological order. Frequent gaps occur in the numbers. Most of the records are dated 1902-15. A partial index to these files is described in entry 158. A file title list appears as Appendix 8 in this inventory.

Includes correspondence, reports on projects and field work (many in the form of letters and memorandums); agreements between the USGS and State agencies; circulars, orders, and other administrative issuances; justifications for field work in certain regions and preparation of maps; minutes of meetings; legislative bills and congressional documents; lists of employees; newspaper clippings; annotated maps; drafts of research papers, field notes of mineral surveys; photographs; and faunal charts.

The records concern cooperation with State geological surveys; coordination of projects with other Federal agencies; USGS representation at international mapping conferences; contracts with private and academic geologists to conduct field work and compile map folios; composition and work of USGS geologic field parties; qualifications, examinations, appointments, salaries, and other personnel matters; administrative procedures; budgets and appropriations; printing and distribution of maps; expositions; topographic surveys; collection of rock specimens and fossils; geologic nomenclature; petrography, paleontology, seismology, and other geologic specialties; classification of coal and asphalt lands; examination of mining claims in forest reserves; chemical analyses; and appearances of USGS geologists as expert witnesses on behalf of the Justice Department in litigation involving mineral lands.

160. GENERAL CORRESPONDENCE FILES. 1899-1952. 75 ft.

Arranged according to a decimal classification scheme, and thereunder chronologically. A few subject classes are subdivided further by subject or by surname of correspondent. A file title list appears as Appendix 9 in this inventory.

Correspondence, memorandums, USGS and Departmental orders, periodic progress reports from Division units, annotated maps, minutes of meetings, cooperative agreements with States, justifications, estimates of expenses, financial statements and other fiscal records, lists of employees, printed and processed articles and monographs, core-sample analyses, lists of rock specimens transferred to the National Museum of Natural History, and geologic reports on strategic-mineral resources, dam and reservoir sites, and other subjects.

The records concern cooperation with State governments and Federal agencies; participation on interdepartmental committees and commissions; war-minerals investigations (World War I); appointments, assignments, and other personnel matters; administration and organization of the Geologic Division; oil, oil shale, and gas investigations; publication and distribution of maps, professional societies; metal, nonmetal, and fertilizer-resource surveys; glacial drift; and earthquakes, volcanoes, and other topics of geologic investigations.

Records dating from 1899 are in File 220, Plans, Estimates, and Allotments; records dating from 1910 are in File 321, Manuscripts submitted for Geological Survey Publications; records dating from 1911 are in File 410.4, Forest Service; and records dating from 1905 are in File 500, Cooperation with State Governments. Most of the records date from 1916.

161. RECORDS CONCERNING OTHNIEL CHARLES MARSH. 1885-99. 0.75 in.

Arranged chronologically.

Letters received, copies of letters sent, memorandums, essays, copies of journal articles, and newspaper clippings. The records concern the importance of paleontology as a research tool in conducting geologic surveys, Marsh's field work for the USGS as its vertebrate paleontologist from 1882, and the controversy surrounding Marsh's decision to retain fossils collected by him and his assistants during USGS-funded field work.

162. DATA COLLECTED BY COLLIER COBB CONCERNING SWAMPLAND, TIMBER, AND DRAINAGE. 1887. 1 in.

Arranged by State: Florida, Georgia, North Carolina, and South Carolina.

Replies to Cobb's questionnaire that requested data on swampland area, prevailing timber, and effect of drainage on health in the respondent's county. Some of the replies include data, others refer Cobb to more knowledgeable individuals. These records, donated by the Harvard University Archives, were compiled by Cobb while he was an undergraduate at Harvard. He was also a part-time assistant to Nathaniel S. Shaler, a Harvard professor and part-time geologist with the USGS.

163. MONTHLY WORK REPORTS. 1901-48. 30 ft.

Arranged alphabetically by surname as follows: 1901-20, A to R; 1914-23, L to Y; 1923-28, R to W; 1931-33 L to W; 1934-48, C and D; 1901-48, R to Z; 1916-48, A to Z; 1931-51, D to Y; 1955-56, A to Z; and 1952-58, A to Z.

Cards (5 in. x 8 in.) completed by geologists, assistant geologists, paleontologists, chemists, special agents and others, to describe duties and percentages of time spent on each. Some reports of field personnel include a diagram, with latitude and longitude, that show the portion of the quadrangle surveyed. Later cards sometimes include project title or number.

164. RECORDS CONCERNING DIVISION EMPLOYEES. 1930-53. 24 ft.

Arranged alphabetically by surname. A list of the names appears as Appendix 10 in this inventory.

The records include correspondence, memorandums, reports, administrative issuances, draft manuscripts, cooperative agreements, copies of articles, press releases, transcripts of meetings, list of metallurgical samples, completed "Agreement for Mineral Exploration and Development" forms, handwritten notes, vouchers, telegrams, newspapers clippings, job applications, organization charts, and plats.

The records contain information about many of the research programs administered by the Geologic Division and offer substantive insight into the planning, staffing, administration, and progress of field projects. Projects discussed in these files include investigations of mines and ore-bearing strata, ore milling and production, deposits and reserves of strategic minerals (Page and Peoples files), thermal waters and hot springs, tectonics, analyses of mineral specimens, commodity resource studies, mineral-resource appraisal and exploration, and establishment of a national minerals policy (Lasky file).

The records also concern administrative matters such as field organization, field conferences, personnel appointments and assignments, publication of professional papers, appropriations, and cooperation with other Federal agencies, especially the Bureau of Mines, Atomic Energy Commission, Defense Minerals Administration, and National Park Service, State agencies, academic institutions, mining companies, and other private enterprises.

Most of the records date from 1940.

165. DIVISION "PERSONNEL" FILES. ca. 1946-55. 10 in

Arranged alphabetically by name of employee.

Contents of the files vary. Included are correspondence, memorandums, telegrams, service-record cards, efficiency ratings, completed job-application forms, position descriptions, clippings of newspaper obituaries, letters of recommendation for awards. There are files for geologists and administrative staff. Screened files can be made available to researchers.

The files were maintained by the Geologic Division and are not official personnel files.

166. RECORDS CONCERNING ORGANIZATION, MANAGEMENT, AND PROGRAMS. 1947-54. 2.5 ft.

Arranged alphabetically by organizational unit, program area, or other subject, and thereunder chronologically. Included are a few items dating from 1943.

Primarily correspondence and memorandums, but also includes Survey Orders and other administrative issuances, budget estimates and justifications, program plans and proposals, progress and other narrative reports, minutes of meetings, press releases, staff-function charts, processed reports and reprinted articles, drafts of scientific monographs, photographs, and maps.

The records concern the organization and functions of units in the Division, planning and coordination of projects, 10-year plans, status of mapping programs, and cooperation with States and other Federal agencies.

167. REPORTS AND OTHER RECORDS CONCERNING DIVISION PROGRAMS. 1945-69. 10 ft.

Arranged by subject.

Chiefly periodic reports, but also includes budget summaries, estimates, allotments and other fiscal records, summaries and minutes of meetings, correspondence, memorandums, project abstracts, organization plans, and copies of legislation concerning the allocation and administrative of Geologic Division personnel and financial resources. Also includes records concerning regional and interagency programs, cooperation with field and staff committees, and ongoing review and appraisal of Division programs

168. PROJECT FILES. ca. 1948-70. 27 ft.

Arranged numerically. Most of the numbers up to 1256 are preceded by two letters identifying the divisional unit that administered the project. Many numbers are missing. Records concerning unnumbered projects are in the last box.

Documents typically found in each file include forms showing project description, project status, allotments of funds, project summary, and work plans. Memorandums and maps also form a part of some files. Some of the projects concern the development of new research techniques and equipment, but most concern domestic and international field work in areas such as geologic mapping; terrain-intelligence studies; oil, oil shale, and gas investigations; mineral-resource studies; compilation of permafrost and landslide data; aeromagnetic studies; and radioactive-waste disposal. Annotations on file labels show that a few projects were begun before 1900. Some of the projects were undertaken in cooperation with Federal and State agencies.

169. RECORDS RELATING TO COOPERATION WITH THE DEPARTMENTAL COMMITTEE ON ECONOMY AND EFFICIENCY. 1910-11. 1 in.

Unarranged.

Completed questionnaires, correspondence, memorandums, lists of employees, printed circulars, and other records concerning the organization and management of the Division in 1910. The Departmental Committee was the channel through which directives and reports flowed between Interior Department components and the President's Commission on Economy and Efficiency.

170. RECORDS CONCERNING DIVISIONAL REPRESENTATION ON COMMITTEES. 1949. 5 in.

Arranged by committee, and thereunder chronologically.

Chiefly minutes of meetings, but also includes reports, work program plans, and correspondence concerning interagency river-basin committees, departmental field committees, and the USGS' coordination committee.

171. ALLOTMENT LEDGERS. 1902-10, 1913-19. 5 ft. 21 vols.

Arranged by fiscal year, some years are in more than one volume, thereunder by allottee or account, and thereunder chronologically. The first volume has an alphabetical index. In the remaining volumes, the allotment accounts are arranged in rough alphabetical order.

A typical entry shows the allotment granted at the beginning of the fiscal year, the name or title of the allottee, the date and description of the expenditure, a voucher number, and a running balance. The expenditures included salaries, and office and field expenses.

172. GEOLOGISTS' FIELD NOTEBOOKS AND RELATED RECORDS. 1867-1939. 1032 volumes and unbound records. 27 ft.

Arranged by assigned number (frequently notebooks by one geologist or for a geographical area have consecutive numbers), and thereunder, within each notebook, by date of entry, subject, type of data, or location. Some notebooks contain an index to their contents. Some numbers between 3483 to 3565 were assigned twice.

The unbound records are in envelopes or bundles and also have assigned numbers. A numerical list of the contents of this series appears as Appendix 11 in this inventory.

The field notebooks mostly contain observations on the geology of areas defined by geographical, geological, statutory (i.e., Yellowstone National Park), or other criteria. The notebooks include narrative entries on stratigraphic units and geologic structures, cross-sections and other sketches, maps of mine shafts and tunnels, lists of rock samples, chemical analyses of minerals, mine-production statistics, computations for dams and reservoirs, triangulation and angle-traverse data, and related information. Some notebooks contain mounted typescript notes, newspaper clippings, and printed materials.

The unbound records include correspondence, drafts of papers, photographs, sketches, maps (including annotated topographic maps), and (on note cards) bibliographies, geologic notes, and indexes (usually to field notebooks).

Many notebooks contain information on several geologic and geographic regions. Most of the notebooks were compiled in the Western United States, especially in the Bisbee (Arizona), Black Hills (South Dakota), Butte (Montana), Coeur d'Alene (Idaho), Globe (Arizona), Goldfield (Nevada), Leadville (Colorado), Mercur (Utah), and Tintic (Utah) mining districts. A few notebooks contain information on areas in the Eastern United States. Some of the notebooks were compiled during visits to Canada, Central and South America, and Europe.

Included are notebooks that predate the founding of USGS in 1879. Some of the geologists served with the direct predecessor surveys and with State geological surveys. There are a few notebooks compiled by hydrologists concerning probable locations for dams and reservoirs.

More than 20,000 additional USGS field notebooks are in the Field Records Library, Special Collections, USGS Library, Denver, Colorado, where they support the agency's work-in-progress. Microfiche copies of some of the field notebooks in the Field Records Library are described in entry 173.

173. MICROFICHE COPIES OF GEOLOGISTS' FIELD NOTEBOOKS. 1871-1969. 3 ft.

Arranged in two collections by assigned number. The first series of numbers were assigned to notebooks accessioned by the USGS Library up to 1953 when a new series of numbers was begun. The second collection is differentiated by the notation "No." before each number. Often notebooks compiled by one individual or concerning one geographic area or project carry sequential numbers. Some notebooks contain an index to their contents. A list of the microfiche copies appears as Appendix 12 in this inventory. These copies are on negative diazo fiche.

The notebooks contain notes and narrative observations on geologic strata (often identified by quadrangle, atlas sheet, or geographic region), including correlations, profiles, and vertical-angle traverse measurements, topographic features, coal, petroleum, phosphate, iron, and other mineral deposits, mineral-land classification, well logs, and mining operations, including copies of data from mining company records, and sketches of mine workings.

Also included are itineraries, transmittal letters, memorandums, drafts of professional papers, lecture notes, lists (of rock specimens, thin sections, and photographs), newspaper clippings, index cards, notes taken from geological literature, and reports compiled by chemists and engineers.

There are sets of notebooks concerning geographic areas such as the goldbelt regions in California and Eastern Oregon, the Fort Peck Indian Reservation, coal fields in Montana, brown-iron areas in east Texas, mineral fuels in Colorado, Utah and Wyoming, and oil and gas fields in Oklahoma, Kansas, Colorado, and Kansas, and special projects such as railway guidebooks, the Black Hills Rim Project, and a study of the ecological features of the Sagadahoe Bay tidal flat (Maine). There are also notes concerning observations in British Columbia, Mexico, Cuba, Haiti, and Paraguay. The notebooks that predate the establishment of the USGS were compiled by geologists associated with the direct predecessor surveys.

The original notebooks are in the custody of the USGS Field Records Library in Denver, Colorado. The microfiche copies do not duplicate the original notebooks described in entry 172. Some notebook contents are typed. Many of the fiche are illegible and as a result compiler and content information on some of the fiche labels could not be verified by an examination of the fiche contents.

Records concerning the Geologic Names Committee, 1899-1969

USGS Director Charles D. Walcott established a Committee on Geologic Names on February 17, 1899, "to consider all names of geologic formations or other divisions of rock classification with a view to determining whether they comply with the rules of nomenclature adopted for the Survey publications and to recommend such action as may be advisable in any individual case to secure unity of nomenclature under the rules." Walcott selected Fred B. Weeks as the committee's chairman; Weeks reported to Bailey Willis, the Assistant in Geology to the Director. Willis led the committee during 1901-3; he and subsequent chairpersons reported to the Chief Geologist. As its initial work, the committee compiled and published in 1902 (USGS Bulletin 191) a bibliographic, synonymic, and distributional list of North American geologic formations, a project begun by the "Hayden Survey" and continued intermittently by the USGS after 1879. This compilation led to the multivolume *Lexicon of Geologic Names of the United States*. As the Geologic Names Committee monitored and standardized geologic names and usage, it also acted as a forum for discussion and its members served on national and international committees responsible for the review of codes of stratigraphic nomenclature. The three regional review-staff offices established in 1961 became Geologic Names Subcommittees in 1995; their chairpersons now form the USGS-wide Geologic Names Committee, led by the agency's Chief Paleontologist.

174. MINUTES OF MEETINGS OF THE GEOLOGIC NAMES COMMITTEE. 1899-1969. 8 ft. 16 vols. and unbound records

Arranged chronologically.

The folder in the first box contains letters to the Director from the Committee on Geologic Names, 1899-1900, concerning recommendations on geologic terminology. The 16 volumes contain only minutes of meetings and memorandums, 1901-31. The remaining records are chiefly minutes of meetings but also include correspondence, memorandums, handwritten notes, stratigraphic correlation charts, and related documents. Some minutes are accompanied by sound recordings (on flexible disks).

The meetings concern the approval or disapproval of geologic names used in USGS publications. The USGS was concerned with ensuring that staff members used terminology that was in conformance with the Code of Stratigraphic Nomenclature adopted in 1933 and subsequently revised in 1961.

The minutes dated 1940-42 (box 11) deal solely with the classification of Carboniferous and Permian rocks.

175. STRATIGRAPHIC SUMMARIES OF GEOLOGIC LITERATURE. n.d. 8 ft.

Arranged alphabetically by State, and thereunder numerically by geographic area. For most States, a map is included whose areas are numbered to correspond to the summaries.

The summaries, on 4 in. x 6 in. cards, include the title of the paper, publication or other source, name of the author, date of publication, and information concerning the geologic names listed. Maps, geologic tables, and correspondence are interspersed among the cards. The summaries, dating from 1894 to 1937 (a few extend to 1940), were abstracted by M. Grace Wilmarth, Secretary of the Committee on Geologic Names, in connection with the compilation of USGS Bulletin 896, "Lexicon of the Geologic Names of the United States (including Alaska)," published in 1938.

176. STRATIGRAPHIC SUMMARIES OF "OUTSIDE" GEOLOGIC PUBLICATIONS. n.d. 16 ft.

Arranged alphabetically by State, Territory, or country, and thereunder chronologically by date of publication, from 1821 to 1937.

The summaries, on 6 in. x 8 in. cards, include the title of the publication, author, date, volume and page numbers, and the names of geologic units--with a description of their characteristics. The summaries also contain geologic tables and correlation charts. A few oversize maps and tables are included. The summaries are from USGS Bulletins, Professional Papers, and other publications, State geologic literature, and professional and scientific journals. These summaries were used in compiling correlation charts.

177. TENTATIVE CORRELATION CHARTS. ca. 1925-36. 121 items. [NWCS, maps and plans]

Chiefly handwritten tentative correlation charts of named geologic units and formations, compiled by M. Grace Wilmarth, Secretary of the Committee on Geologic Names. Also included is a printed chart titled "Stratigraphic position of the named subdivision of the Keweenaw Series of Michigan (June 1, 1929).

*Records relating to West Indian Geologic Surveys, 1917-25*

In 1917 the USGS received a letter from the Department of State requesting an investigation of the mineral resources of Haiti, in accordance with the Treaty of September 16, 1915, between the United States and Haiti. The treaty stated that the United States would aid in the development of the agricultural industries and mineral resources of the Haitian Republic.

In 1917 the USGS also received a request from the head of the military government of the Dominican Republic soliciting the agency's help in surveying the country's topography, geology, and natural resources. The USGS in extending its search for war minerals to the Caribbean and Latin America in 1918, had sent geologist Henry G. Ferguson to the Dominican Republic. During the next spring USGS topographer Glenn L. Smith and USGS geologist T. Wayland Vaughan visited the Dominican Republic and Haiti to plan the surveys, to be made in cooperation with the Smithsonian Institution, Carnegie Institution, and the New York Botanical Garden. On July 1, 1919, the USGS Topographic Branch established a Division of West Indian Surveys, led by Smith, to organize, coordinate, and direct the work to 1923. Geologic Branch geologists were furloughed from the Section of Coastal Plain Investigations to conduct the geologic surveys in both countries. In Haiti USGS topographers, also furloughed from the agency, experimented with mapping from aerial photographs.

Records of the topographic portion of these USGS surveys of the Dominican Republic have been published as part of NARA Microfilm Publication T282, "Geological Survey and Marine Corps Surveys and Maps of the Dominican Republic, 1919-1923."

178. RECORDS RELATING TO A GEOLOGIC SURVEY OF THE DOMINICAN REPUBLIC. 1917-23. 2 in.

Arranged by subject.

Correspondence, reports, summaries of surface-water and rock-sample analyses, copies of mining laws and regulations, handwritten notes, maps, and other records concerning geologic and topographic surveys done by USGS geologists at the request of the Military Government. The principal geologist was Henry G. Ferguson. Some of the preliminary field work was done by T. Wayland Vaughan, Chief of the Section of Coastal Plain Investigations. Included is information on fossil deposits, petroleum reserves, and mineral resources.

179. RECORDS CONCERNING A GEOLOGICAL SURVEY OF HAITI. 1917-25. 5 in.

Arranged by subject.

Correspondence, reports, copies of mining laws, forms for water-sample and rock-specimen analyses, other records concerning organization and management of the survey project, appointments, accounts, and expenditures, and publication of the final report. A few of the items are in French. The survey was planned and led principally by Wendell P. Woodring, appointed Geologist in Charge.

General Cartographic Records, 1872-1997

180. GEOLOGIC MAP OF THE UNITED STATES. 1932. 11 items. [NWCS, maps and plans]

A printed, color coded map, at 1:2,500,000, compiled by George W. Stose. The map is in sections with an appropriate legend for each section.

181. MAPS OF NORTH AMERICA AND THE UNITED STATES. 1893-1976. 7 items. [NWCS, maps and plans]

The maps are titled: "Reconnaissance Map of the United States showing the Distribution of the Geologic Systems so far as known," 1893; "Location of the Fertilizer Industry in the United States - 1935"; "Geologic Map of the United States," 1941; "Estimated Effective Ground Conductivity in the United States," 1954; and "Subsurface Temperature Map of North America," 1976.

182. GEOLOGIC QUADRANGLE MAPS. 1939-96. approx. 1840 items. [NWCS, maps and plans]

Arranged numerically.

The maps are numbered from GQ-1 to GQ-1778. Most of the maps are folded.

183. GEOLOGIC MAP INDEXES. 1945-74, 1985, 1991. 150 items. [NWCS, maps and plans]

Arranged alphabetically by State.

Included is a computer-derived index to geologic maps of North Dakota (1985). Some are bound booklets.

184. STATE GEOLOGIC MAPS. 1872, 1909-92. 127 items. [NWCS, maps and plans]

Arranged alphabetically by State.

In addition to geologic strata some of the maps also show the locations of oil, gas, and coal deposits. The 1872 map is a "Preliminary Geological Map of Minnesota" by Newton H. Winchell, State Geologist.

185. COUNTY GEOLOGIC MAPS. 1900-1960. 20 items. [NWCS, maps and plans]

Maps for counties in Arizona (1957-60), California (1947, 1958), Hawaii (1938), Kentucky (1919, 1938), and Maryland (1900, 1902, 1911). The maps were compiled by State agencies with cooperation from the USGS.

186. LOCAL AREA SPECIAL PUBLISHED GEOLOGIC MAPS. ca. 1912-71. 39 items. [NWCS, maps and plans]

Arranged alphabetically by State.

Some of the maps are accompanied by geologic charts.

187. FOREIGN GEOLOGIC MAPS. 1872, 1944-74. 39 items. [NWCS, maps and plans]

Alphabetically by county or other location as follows - Antarctica (published in New Zealand) 1963; Brazil, 1944; Costa Rica, 1962; Cuba, 1947, 1954; Ethiopia, 1970; Guatemala, 1967; Malaya, 1948-66; Mexico, n.d.; New Zealand, 1963; Santo Domingo (copy of an 1872 map); Scotland, 1971, 1974; Sudan, 1958; Tanzania, 1974; Trinidad, 1947-61; Tunisia, n.d.; and Venezuela, 1950.

188. MAPS BY STATE AGENCIES. ca. 1910-77. 29 items. [NWCS, maps and plans]

Arranged alphabetically by State.

Geologic maps and correlation sections compiled by State geologic, mining, and other agencies.

189. MAPS BY THE GEOLOGICAL SOCIETY OF AMERICA. ca. 1953-65. 12 items. [NWCS, maps and plans]

The series consists of a tectonic map of the Alaska Peninsula, at 1:1,000,000 (GSA Memoir No. 99), geologic maps of the Alaska Peninsula, at 1:250,000 (GSA Memoir No. 99), a geologic map of the Beartooth Mountains in Montana and Wyoming, at 1:126,720 (GSA Bulletin, Volume 72), and geologic maps of areas in California, at 1:62,500 (GSA Memoir No. 35).

190. MINERAL INVESTIGATION RESOURCE MAPS. 1949-92. approx. 115 items. [NWCS, maps and plans]

A set of general maps (1949-53) followed by numbered maps from MR-1 to MR-96 (1952-71)

Geologic maps showing geologic strata, sedimentary formations, and other geologic features. Most of the maps are folded. An unnumbered "general resource map," published in 1942 and reprinted in 1959, is at the end of the series with the folded materials..

191. MAPS SHOWING LOCATIONS OF FIELD PROJECTS. 1949-64. 4 items. [NWCS, maps and plans]

Maps showing the locations of geologic field projects in Alaska (1964) and the United States (1949, 1952). The latter maps have insets for Alaska, Hawaii, the Canal Zone, Puerto Rico, and the Virgin Islands.

192. MISCELLANEOUS INVESTIGATIONS SERIES MAPS. 1954-97. 11 vols. and approx. 3240 items. [NWCS, maps and plans]

The series consists of published maps and map sets numbered from I-1 to I-2596. The subjects of the unbound maps include the availability of ground water and the magnetic field of the earth. The bound map sets include "Paleotectonic Maps of the Jurassic System," "Paleotectonic Maps of the Triassic System," "Geology of the Solar System," "Atlas of Oblique Maps," "Atlas of the Exclusive Economic Zone, Western Conterminous United States," "Atlas of the United States Exclusive Economic Zone, Gulf of Mexico and Eastern Caribbean Areas," "Atlas of the United States Exclusive Economic Zone, Bering Sea," and "Atlas of the United States Exclusive Economic Zone,

Atlantic Continental Margin.” The map series was titled ‘Miscellaneous Geologic Investigation’ until 1974 when the series title was changed to ‘Miscellaneous Investigations.’ Most of the unbound maps are folded.

193. MAPS SHOWING THE STATUS OF GEOLOGIC MAPPING. 1951-55. 7 items. [NWCS, maps and plans]

Maps showing the status of geologic mapping in Alaska (1953, 1954, 1955), and the United States (1951, 1955). The United States maps have insets for Alaska, Hawaii, the Canal Zone, Puerto Rico, and the Virgin Islands. This series also includes a map showing “completed, current and proposed geologic mapping program - Navajo-Hopi Indian Reservations,” dated December 1, 1953.

194. MISCELLANEOUS FIELD STUDIES MAPS. 1951-96. approx. 1100 items. [NWCS, maps and plans]

The maps, which show mineral deposits and geologic sections, are numbered from MF-2 to MF-2355. This map series was titled “Mineral Investigations Field Studies Maps” until 1973 when the title was changed to “Miscellaneous Field Studies Maps.” Most of the maps are folded.

195. GEOLOGIC AND GEOGRAPHIC MAPS. 1968-81. 5 items. [NWCS, maps and plans]

The folded maps are titled: “Geothermal Resources of Washington,” 1981 (GM-26); “Geographic Map of the Northwestern Hijaz Quadrangle Kingdom of Saudi Arabia,” 1973 (GM-204B); and “Geographic Map of the Southern Najd Quadrangle Kingdom of Saudi Arabia,” 1978 (GM-211B). The flat-filed items are geologic maps of the Chewelah Mountains Quadrangle, Stevens County, Washington, and mines in the Eagle Mountain area, Washington, 1968 (GM-5).

196. GEOLOGIC MAPS OF ANTARCTICA. 1973-89. 7 items. [NWCS, maps and plans]

These published maps, numbered from A-2 to A-14, were compiled in cooperation with the U. S. Antarctic Research Program. One of the items is a geologic map of Antarctica showing the Pensacola and Thiel Mountains (Folio 12, Geology, Antarctic Map Folio Series) published by the American Geographical Society in 1969.

197. GEOLOGIC MAP OF THE EAST HALF OF THE UNITED STATES. 1974. 2 items. [NWCS, maps and plans]

The map’s scale is 1:2,500,000. The legend is on a separate sheet. The explanatory text that accompanied the map was published as USGS Professional Paper 901, “Explanatory Text to Accompany the Geologic Map of the United States” (by Philip B. King and Helen M. Beikman, 1974). The map is oversized. The map and text were reissued on CD-ROM as USGS Digital Data Series DDS-11 (by Paul G. Schruben, Raymond E. Arndt, and Walter J. Bawiec; software display by Russell A. Ambroziak, 1994).

198. MAPS OF THE CIRCUM-PACIFIC REGION. 1990-96. 8 items. [NWCS, maps and plans]

The maps, numbered from CP35 to CP44, were prepared as part of the Circum-Pacific Map Project, an activity of the Circum-Pacific Council for Energy and Mineral Resources.

199. HYDROGEOLOGIC MAP. 1991. 2 items. [NWCS, maps and plans]

Two copies of a map titled "Geothermal Resources of Montana," at 1:1,000,000, showing locations of thermal springs and thermal wells. The map is designated HM-4.

200. GEOLOGIC MAP OF ARKANSAS. 1993. 1 item. [NWCS, maps and plans]

An oversized map at 1:500,000.

201. A MAP TITLED "THIS DYNAMIC PLANET: WORLD MAP OF VOLCANOS, EARTHQUAKES, IMPACT CRATERS, AND PLATE TECTONICS." 1994. 2 items. [NWCS, maps and plans]

The map scale is 1:30,000,000 at the equator. The map is oversized.

202. A "MAP SHOWING THE THICKNESS AND CHARACTER OF QUATERNARY SEDIMENTS IN THE GLACIATED UNITED STATES EAST OF THE ROCKY MOUNTAINS." 1993. 1 item. [NWCS, maps and plans]

The map, at 1:1,000,000, shows the northeastern States, the Great Lakes, parts of Southern Ontario, and the Atlantic Offshore Area.

203. GLORIA IMAGERY AND DATA FILES. n.d. 3 compact disks. [NWCS, maps and plans]

The compact disks are titled: "GLORIA Imagery and Bathymetry from the U.S. EEZ [Exclusive Economic Zone] off Washington, Oregon, and California"; "Gloria, East Coast, Disk A (Image Maps)"; and "Gloria, East Coast, Disk B (Data Files)." GLORIA is the acronym for Geological LOng-Range Inclined Asdic.

General Photographs, 1893-1906

204. PHOTOGRAPHIC PRINTS DEPICTING GEOLOGICAL FORMATIONS AND FEATURES. ca. 1893-1906. 111 albums. 13 ft.

Arranged in alphabetical order by geologic feature or subject category. Each photograph is captioned and includes the surname of the photographer. Many of the photographs are dated. Albums 6 and 7 are bound together. A list of the features and subjects appears as Appendix 13 in this inventory. This is series SA (NWCS, still pictures).

Black and white photographs taken by geologists and other USGS personnel during field surveys. The geologic features shown in the photographs include anticlines and synclines, caves and caverns, craters, deltas, fault-zone structures, flood plains, glacial drainage and valleys, lava flows, oil fields, mountain peaks, potholes, quarries, rivers, shore topography, springs, terraces, volcanic features, and waterfalls.

Subjects include the Grand Canyon, Niagara Falls and Yellowstone Falls, mines and mining activities in the United States and foreign countries, views of fault lines and damaged buildings after the 1906 San Francisco earthquake, and oil fields in California.

Collateral subjects in a few of the photographs include street scenes and panoramic views of towns.

*Paleontology and Stratigraphy Branch, 1897-1965*

Investigations in paleontology have been an integral part of USGS missions since the establishment of the agency, whose organic law specified "reports upon general and economic geology and paleontology." The statute also required the USGS to deposit its fossils and other scientific collections in the National Museum when the specimens were "no longer needed for work in progress." Some of the early work by USGS paleontologists of identifying and correlating fossils to aid stratigraphic studies and geologic mapping continued investigations begun by the direct predecessor surveys. By the mid-1880's the USGS geologic unit contained five small-sized paleontology divisions: vertebrates, Paleozoic invertebrates, Mesozoic invertebrates, Cenozoic invertebrates, paleobotany, and fossil insects. By 1894 these units had been replaced by a combined Division of Paleontology, which was retained during the reorganization of the Geologic Branch in 1900 and restyled a section in the Branch's Geology and Paleontology Division in 1902. In 1907 the Section was renamed Paleontology and Stratigraphy. During the reorganization of the Geologic Branch in 1944, the Section became part of the new Division of Areal Geology and Basic Sciences. When the Geologic Branch became a Division in 1949, the Section was restyled the Branch of Paleontology and Stratigraphy and continued operations under that name until all of the Geologic Division's branches were disestablished during the reorganization in 1995.

205. OFFICE FILES OF EDWARD OSCAR ULRICH. 1897-1939. 3 ft.

Arranged alphabetically by subject, surname of correspondent, or title of official position, and thereunder in rough chronological order - Abstracts, biological, 1931; George H. Ashley, 1910-31; H. Foster Bain, 1901-32; Florence Bascom, 1907-20; Ray S. Bassler, 1900-1924; Joshua W. Beede, 1903-23; Ernest R. Buckley, 1904-14; Henry A. Buehler, 1904-32; Charles Butts, 1910-29; William B. Clark, 1897-1916; John M. Clarke, 1901-20; E. S. Cobbold, 1925-34; Ura Cram, 1926-31; Henry B. Cushing, 1907-18; Charles E. Decker, 1927-30; Frank W. DeWolf, 1913-18; Director, 1902-31; Ira Edwards, 1924-31; George M. Ehlers, 1918-36; August F. Foerste, 1904-32; F. Julius Fohs, 1903-29; Chief Geologist, ca. 1908-31; George H. Girty, 1902-18; Winifred Goldring, 1918-33; Charles N. Gould, 1902-28; C. Willard Hayes, 1906; William O. Hotchkiss, 1914-32; Edmund O. Hovey, 1909-22; G. Marshall Kay, 1929-34; Arthur Keith, 1908-16; Edward M. Kindle, 1905-36; William A. Nelson, 1913-26; Albert H. Purdue, 1904-10; Percy E. Raymond, 1909-29; Reports, miscellaneous, n.d.; Rudoff Reudemann, 1905-33; Frederick W. Sardeson, 1913-33; Thomas E. Savage, 1908-18; Charles Schuchert, 1899-1934; Claude E. Siebenthal, 1906-7; Timothy W. Stanton, 1912-31; Charles K. Swartz, 1910-16; Edward O. Ulrich, 1901-37; Stuart Weller, 1904-18; and Joseph F. Whiteaves, 1902-8. There are also miscellaneous files arranged alphabetically: A, 1902-35; B, 1896-1939; C, 1902-35; D, 1904-35; E, 1917-36; F, 1905-35; G, 1905-35; H, 1902-37; I, 1918-32; J, 1909-33; K, 1901-33; L, 1902-34; M, 1900-1939; N, 1902-35; O, 1931-32; P, 1906-38; R, 1903-35; S, 1902-36; T, 1908-34; U, 1916-32; V, 1904-32; and W, 1898-1932.

Primarily correspondence, but also includes memorandums, drafts of professional papers, minutes of meetings, drill-core logs, newspaper clippings, tables of geologic formations and tentative correlations of geologic formations, sketches of mine shafts, annotated geologic maps, photographs, a glass slide, and a glass vial containing a rock specimen.

The records concern investigations of lower Paleozoic formations by the USGS, State, and academic geologists, and critical analyses of their conclusions, to establish uniformity in stratigraphic classifications and nomenclature.

Ulrich was an Associate in Paleontology at the National Museum, 1914-44.

206. MANUSCRIPT REPORTS AND OTHER RECORDS RELATING TO GEOLOGIC INVESTIGATIONS. ca. 1904-52. 6 ft.

Arranged by subject or type of record.

Chiefly typed and handwritten manuscript reports, some accompanied by annotated topographic and geologic maps, but also including faunal and specimen lists, work reports, notes on field trips, and administrative issuances. Some of the records concern bauxite, zinc, and other strategic-minerals investigations.

207. RECORDS CONCERNING THE [CHRONOSTRATIGRAPHIC] OZARKIAN SYSTEM. ca. 1916-42. 2.5 ft.

Arranged by subject or type of record.

Chiefly copies of manuscripts, mostly by Edward O. Ulrich, Josiah Bridge, Charles L. Dake, and illustrations of trilobites. Also included is correspondence, handwritten notes, logs of test-well drillings, tables showing correlations of "Ozarkian" faunal zones, annotated geologic maps, and copies of Josiah Bridge's masters' thesis, "The Middle Ordovician Section in East Central Missouri," of 1922, his doctoral dissertation, "The Geology of the Eminence Region," of 1929, and a typewritten set of lectures by Thomas C. Chamberlain "Principles and Theories of Geology" course 60, 1916-17. The field investigations to "establish" the "Ozarkian System" were conducted primarily in Oklahoma and Missouri.

208. FIELD NOTEBOOKS. 1920, 1929-49. 2 ft. 25 vols. and unbound papers.

Arranged in rough order by geographic location.

Handwritten notes and sketches, usually daily, of field investigations in paleontology and stratigraphy, and transcribed drill-test logs and notes from other geological sources. Some notebooks also contain attached photographs and annotated geologic maps. Other notebooks contain inserted loose items, such as letters, note cards, and maps. Many of the notebooks, including the two labeled "1920 Ventura, Colo.," appear to have been compiled by Josiah Bridge.

209. OFFICE FILES OF JOSIAH BRIDGE. 1922-53. 4 ft.

Arranged in rough alphabetical order by surname of correspondent or subject. Most of the records date from 1930. A list of file title headings appears as Appendix 14 in this inventory.

Includes correspondence, drafts and critiques of professional papers, reports on field work, stratigraphic charts, lists of fossils from well cuttings, lists of specimens, newspaper clippings, catalogues, book lists, lecture and conference papers, Survey Orders and other administrative issuances, maps and sketches, and photographs. The records concern bauxite surveys, cooperation with State geologists and oil companies, and professional review of the analyses and correlation of stratigraphic units.

210. FIELD NOTES OF CHARLES LAWRENCE DAKE. 1930-31. 4 in. 2 vols.

The contents are arranged chronologically.

A bound typewritten compilation of "Field Notes on Studies of the Southwest Cambrian and Ordovician."  
A few sketch maps and fossil drawings are included. The second volume contains excerpts from the first.

211. CHRONOLOGICAL FILE CONCERNING THE 1944 EDITION OF A TECTONIC MAP OF THE UNITED STATES. 1934-46. 3 in.

Arranged chronologically.

Chiefly correspondence, but also includes memorandums, sketches of map symbols, and annotated maps. The tectonic map was prepared under the direction of the Committee of Tectonics, Division of Geology and Geography, of the National Research Council, and published by the American Association of Petroleum Geologists. The Chairman of the Committee was Chester R. Longwell of Yale University. The USGS representative (member) was Philip B. King.

212. RECORDS CONCERNING THE 1962 EDITION OF A TECTONIC MAP OF THE UNITED STATES. 1955-65. 10 in.

Half of the records are arranged alphabetically by surname of addressee; the remainder are arranged in rough chronological order.

Correspondence, memorandums, progress reports, summaries of meetings, annotated maps, and press releases. Includes a few references to a proposed Tectonic Map of the World. The 1962 map, a revision of the tectonic map issued in 1944, was compiled and published cooperatively by the USGS and the Tectonic Map Committee of the American Association of Petroleum Geologists.

213. MONTHLY REPORTS. Oct. 1949 - Dec. 1950. 0.25 in.

Arranged chronologically.

Typescript and processed reports of branch programs. Some working papers are interspersed through the file.

214. STAFF MEMBERS MONTHLY ACTIVITY REPORTS. 1950-52. 4 in.

Arranged alphabetically by name of staff member.

Completed forms with blocks for group or project number (later forms request the operating unit in this space), number of days on duty, approximate time at various activities, reports on referred collections, status of current reports, and summary of activities. The report sets are not complete for each staff member.

215. TABLES OF HISTORICAL GEOLOGY. n.d. 7 items. [NWCS, maps and plans]

The tables concern the following areas - Northern Rocky Mountains and Plains, Southern Midcontinent Region, Appalachian Basin, Southwestern United States, and North Central Region. All the tables bear the handwritten note "preliminary."

#### Division of Alaskan Mineral Resources, 1901-7

An act of March 2, 1895 (28 Stat. L., 939), appropriated funds specifically for "an investigation of the coal and gold resources in Alaska" by the USGS. Since 1889 Survey staff members had accompanied Coast and Geodetic, War Department, and privately sponsored expeditions to Alaska and gathered information about its geography and resources. Later acts of Congress increased the appropriations and expanded USGS work in Alaska.

The Division of Alaskan Mineral Resources was created in the Geologic Branch in 1903. The Division continued the work of preparing geologic and topographic maps of Alaska as part of the mineral-resource investigations. Later the Division also was made responsible for water-resources investigations, classification of its public lands, and the collection of mineral statistics in Alaska. In 1922 the Division was separated from the Geologic Branch as the Alaskan Mineral Resources Branch under a "Chief Alaskan Geologist."

Other records concerning USGS work in Alaska are described in the records of the Staff Geologist for Territories and Island Possessions, entry 60; the records of the Alaskan Geology Branch, entries 258-265; records concerning the Aleutian Volcano Project, entry 249; records concerning the Alaska Terrain and Permafrost Section of the Military Geology Branch, entry 285; records of the Alaskan Branch, entries 680-686; and records concerning Land and Stream Classification, entry 675.

#### 216. FISCAL RECORDS CONCERNING FIELD EXPENSES FOR ALASKA MINERAL INVESTIGATIONS, 1901-2. 1.5 in.

Arranged by type of record.

Summary appropriation forms, abstracts of disbursements, vouchers, payrolls, and related records maintained by Walter C. Mendenhall, Special Disbursing Agent.

#### 217. RECORDS CONCERNING THE CUNNINGHAM COAL LAND CLAIMS. ca. 1905-7. 39 items. [NWCS, maps and plans]

The records consist of tracings; planetable sheets showing the locations of coal sections surveyed in 1905 (including a key map of Cunningham Claims); and a printed map titled "Map of the Bering River Coal Field," which shows the distribution of the various kinds of coal and locations of coal sections.

## Section of Areal Geology, 1907-19

Areal Geology became a operational division in the Geologic Branch in 1900. Two years later the division became a section of the Geology and Paleontology Division. Between 1913 and 1922 the unit was divided into the Section of Eastern Areal and Structural Geology and Section of Western Areal and Structural Geology. In 1927 the section was made part of a new Section of Areal Geology and the Geology of Nonmetalliferous Deposits, which in 1944 became part of the newly created Division of Economic Geology. In 1945 Areal Geology was separated and transferred as a section to the Division of Areal Geology and Basic Sciences. In 1947 Areal Geology was renamed General Geology. The section was responsible primarily for investigating the nature and extent of geologic structures; its studies also helped to establish regional stratigraphic frameworks. One of the principal goals of the work involved improving the geologic map of the United States.

### 218. RECORDS CONCERNING AREAL GEOLOGY. 1907-19. 5 in.

Arranged alphabetically by subject, and thereunder chronologically.

Chiefly correspondence, but also includes memorandums, progress and technical reports, statistical summaries, handwritten notes, and other records, concerning the Section of Western Areal and Structural Geology and the Section of Eastern Areal and Structural Geology. Information included relates to field examinations for mapping and other areal-geology projects; mapping for the folios of the "The Geologic Atlas of the United States" by USGS and contract geologists; allotments and expenditures for field examinations and folio projects; editing and publishing folios; and cooperation with the War Department and the Forest Service.

*Mineral Deposits Branch, 1881-1953*

The "examination of the ... mineral resources ... of the national domain" was a part of the founding mission of the USGS and a Mining Geology Division was established in 1879 to administer the work. In 1894 the unit was reconstituted as the Division of Mineral Resources in the Geologic Branch. In the reorganization of the Geologic Branch in 1900 studies of mineral deposits were placed in a Division of Economic Geology, divided into the Section of Investigations of Metalliferous Ores and the Section of Nonmetalliferous Economic Deposits. Also called Metalliferous Deposits and Nonmetalliferous Deposits, two sections remained coherent entities under several organizational units. In 1947 Survey Order 163 merged the two sections as the Mineral Deposits Section in the reestablished Division of Economic Geology. The functions of the Section remained the same except for the addition of physical-exploration functions transferred from the Bureau of Mines. Surface work such as trenching was assigned to the Mineral Deposits Section. Functions associated with geophysical exploration were assigned to the Geophysics Branch. In 1949 the Mineral Deposits Section became a Branch.

219. GENERAL ADMINISTRATIVE AND CORRESPONDENCE FILES. 1909-53. 12 ft.

Arranged according to a decimal classification scheme. A file title list appears as Appendix 15 in this inventory.

Includes correspondence, memorandums, periodic program-status reports, telegrams, budget-allocation forms and other fiscal records, Departmental circulars, Survey Orders and other administrative issuances, project summaries, information releases, minutes of meetings, reports on mineral resources by nongovernment organizations, drafts of professional papers, maps, charts, and photographs. The records concern the administration of Branch programs; cooperation with other units of the USGS, Departmental field committees, other Federal agencies, State agencies, and professional associations such as the American Society for Testing Materials; strategic-minerals surveys during World War II and other field investigations; and public-works projects.

220. ATLASES TO ACCOMPANY MONOGRAPHS. 1881, 1883, 1903. 4 vols. [NWCS, maps and plans]

The atlases are titled "Atlas to Accompany the Geology of the Comstock Lode and the Washoe District," by George F. Becker, 1882; "Atlas to Accompany a Monograph on the Geology and Mining Industry of Leadville, Colorado," by Samuel F. Emmons, 1883; and "Atlas to Accompany Monograph XLV on the Vermilion Iron-Bearing District of Minnesota," by J. Morgan Clements, 1903.

221. MICROSCOPE SPECIMENS OF MINERALS FOUND IN GRANTS PASS QUADRANGLE, OREGON. 1908. 10 in.

Forty-one glass slides ( 1 in. x 1.75 in.) numbered from 7017 to 7077.

222. DESCRIPTIONS OF MINERALS FOUND ON THE FT. BELKNAP INDIAN RESERVATION AND IN THE JEFFERSON NATIONAL FOREST, MONTANA, WITH ACCOMPANYING MICROSCOPE SPECIMENS. 1921. 8 in.

Arranged numerically by assigned number.

Descriptive cards numbered from 1 to 121 give the locality where the sample was found, characteristics of the sample, and often on the reverse of the card, a description of the surrounding rocks where the sample was found. Each card has an attached envelope containing a slide specimen.

223. RECORDS CONCERNING MINERAL DEPOSITS. 1914-49. 10 in.

Arranged by mineral, geographic area, or by type of record.

Includes core logs of bore holes, reports on chemical analyses of soil samples, correspondence, maps, newspaper clippings, reports on field investigations, reprints of articles from professional journals, congressional documents, information bulletins, and photographs. The records concern efforts by Federal agencies, sometimes at the request of private individuals and mining companies, to ascertain the quality and extent of deposits of bromine, iodine, potash, saltpeter, sodium nitrates, and talc.

224. RECORDS OF GERALD FRANCIS LOUGHLIN CONCERNING MINING GEOLOGY IN LEADVILLE AND OTHER AREAS. 1901-23. 5 in.

Arranged by subject.

Handwritten notes, diagrams, plats, memorandums, correspondence, reports, photographs of rock specimens, and other records concerning coal and other minerals and mines.

225. MANUSCRIPT MAPS AND TABLES RELATING TO THE LEADVILLE AND TINTIC MINING DISTRICTS. 1884-1919. approx. 240 items. [NWCS, maps and plans]

Included are sketches, tracings, blueprints, and regional maps showing the locations of mines, geologic strata intersecting mine shafts, and mine-tunnel layouts, sometimes including raises and winzes; and columnar tables giving an analysis of ores from various mines for the years 1879-1912. Of particular interest is a map of the Leadville Mining District showing the town of Leadville and the locations of mine shafts as of 1911 in the vicinity of the town

226. OFFICE FILES OF ERNEST FRANCIS BURCHARD. 1915-45. 10 in.

Arranged by surname of correspondent, official title, or subject.

Chiefly correspondence, but also includes memorandums, administrative issuances, and printed items concerning USGS programs and publications, cooperation with Federal and State agencies, and participation in the activities of professional associations. Of particular interest are records concerning USGS field investigations in Cuba.

Burchard served as Chief of the Section of Iron and Steel Metals from 1917 to 1944.

227. RECORDS CONCERNING STRATEGIC MINERALS. 1940-50. 1.5 ft.

Arranged by surname of geologist, subject, or type of record.

Includes correspondence, draft manuscripts, reports on field work, press releases, maps and mine-production statistics concerning USGS field surveys to locate workable deposits of strategic and critical minerals. Much of the work was undertaken in cooperation with the Bureau of Mines, the War Production Board, the Reconstruction Finance Corporation, and State geologists.

228. RECORDS CONCERNING IRON-ORE INVESTIGATIONS. 1941-45. 5 in.

Arranged in two sections--external correspondence and internal correspondence--and thereunder alphabetically by surname of correspondent or subject.

Chiefly correspondence with State and academic geologists, mining companies, other Federal agencies and USGS officials. Includes references to nickel and tungsten, and to bauxite and other minerals.

229. REPORTS AND RELATED RECORDS CONCERNING ARKANSAS BAUXITE. 1942-46. 15 in..

Arranged alphabetically by name of ore deposit.

Chiefly War Mineral Reports from the Bureau of Mines that concern bauxite deposits in Arkansas. The reports include information on test drill holes, location, ownership, geology, reserves, value, and analyses. A few reports are annotated. Also includes some correspondence.

230. ORE-BODY REPORTS OF THE ARKANSAS BAUXITE PROJECT. 1944-45. 10 in.

Arranged in rough alphabetical order by name of ore deposit.

Typescript reports by USGS geologists (including an abstract of each report). The contents of the reports follow the same format: deposit location, accessibility, surface conditions, exploration data, geology, stratigraphy, character of the ore, structure and origin of the deposit, reserves, and logs of drill holes.

231. RECORDS CONCERNING THE LOCATION OF ARKANSAS BAUXITE DEPOSITS. 1941-43. 2 in.

Arranged by type of record.

Correspondence with mining companies, data furnished by mining companies concerning the ore deposits, laboratory-analysis reports, drill-hole data sheets, and handwritten notes. The records appear to have been gathered by the Bureau of Mines for use in compiling War Mineral Reports.

232. MAPS RELATING TO THE ARKANSAS BAUXITE DISTRICT INVESTIGATION. 1942-45. approx. 1200 items. [NWCS, maps and plans]

Some of the items are arranged by mine or ore body.

Included are contour maps, maps of mine shafts and tunnels (including caved areas), planetable sheets, graphs, geologic cross sections, drilling plans, and deep drill-hole reports (on cards). The records concern investigations of the location, extent, and mineral and chemical composition of bauxite-ore deposits. There are also records concerning bauxite-ore processing. The last folder contains a memorandum, dated February 10, 1944, concerning the format and content of written reports on bauxite-ore deposits.

233. CORRESPONDENCE CONCERNING NONMETALLIFEROUS INVESTIGATIONS. 1942-47. 3 in.

Arranged alphabetically by surname of geologist.

Correspondence and related records that concern field surveys to locate deposits of calcite, corundum, mica, quartz, scheelite, talc, and other minerals.

234. RECORDS CONCERNING MAGNESITE INVESTIGATIONS. 1942-48. 4 in.

Arranged by subject or type of record.

Progress reports on field work, correspondence, and a draft copy of the final report on magnesite deposits, primarily those in Nevada and California. The draft report includes plats that show the locations of the deposits.

Eugene Callaghan, a commodity geologist with the USGS, supervised the investigations. The ultimate objective of the program was a comprehensive report on the commercially important magnesite resources of the United States. The records also contain frequent references to brucite deposits.

235. RECORDS CONCERNING WESTERN DOLOMITE INVESTIGATIONS. 1942-46. 2 in.

Arranged by type of record.

Monthly progress reports, preliminary reports of findings, and correspondence. The field work was conducted primarily in Washington, Idaho, and Montana, but the records also refer to field reconnaissances in other Western States. The chief aim of the program involved determining the location and extent of high-grade dolomite deposits.

236. REPORTS ON MINERAL EXPLORATION PROJECTS. 1946-51. 1.5 in.

Arranged by title of report: Southeast Phosphate Studies (Florida), Bear River Phosphate (Idaho), Maryland Clay (Maryland), Colorado Plateau Exploration, Tri-State Lead-Zinc District (Missouri, Kansas, Oklahoma), Mineral Resource Studies, and Geochemical Prospecting Unit.

Chiefly periodic progress and summary reports. Some reports are accompanied by other types of documents such as minutes of meetings, correspondence, expenditures forms, and maps.

237. RECORDS RELATING TO EMPLOYEES' MILEAGE AND OTHER FIELD EXPENSES. 1949. 1 in.

Arranged by project number.

Chiefly memorandums or notes showing mileage and, sometimes, related expenses. Files C180 and C195 also include progress reports.

238. RECORDS OF THE SECTION OF COOPERATION. 1917-19. 15 in.

Arranged in two sequences alphabetically by subject, Federal agency, private firm, and correspondent's surname.

Correspondence, memorandums, statistical tables and summaries, monthly and technical reports, handwritten notes, publications, congressional documents, copies of Survey Orders, newspaper clippings, and other records concerning the administration, policies, and functions of the Cooperation Office during World War I.

The records primarily concern cooperation with Federal agencies (particularly the war agencies), foreign countries, and private firms to supply narrative and statistical data on minerals. Also included is information on Federal control of minerals, Geologic Division publication of compiled mineral data, personnel matters, and equipment and supplies. A few records are interspersed that concern the Joint Information Board on Minerals and Derivatives, established February 14, 1918, to coordinate mineral investigations and exchanges of information in the Federal Government. The geologist-in-charge of cooperation served as the Board's Executive Secretary.

239. ANNOTATED PRINTED MAPS SHOWING WORLD MINERAL DEPOSITS. 1918. 154 items. [NWCS, maps and plans]

Arranged alphabetically by country or region.

Most of the sheets are base maps from Stanford's Library Map editions. Some of the maps are annotated to show the locations of oil, oil shale, coal, bauxite, iron, phosphate, and other minerals. The maps were published as part of the "World Atlas of Commercial Geology," (Washington, D.C., 1921).

The atlas was published in two parts: Part I, Distribution of Mineral Production, and Part II, Water Power of the World. The compilation of the atlas was begun in response to a request from the Secretary of State in December 1917.

240. MAPS OF THE MISSOURI RIVER BASIN. 1945-51. 33 items. [NWCS, maps and plans]

Maps showing the findings of geologic mapping and mineral resource investigations. Some of the maps are part of the following series of maps - "Missouri Basin Studies, Sand and Gravel Deposits," "Mineral Resources of the Missouri Valley Region," "Missouri Basin Studies, Construction Materials and Non-metallic Mineral Deposits," and "Missouri Basin Metallic Mineral Deposits."

*Base Map Unit, 1941-60*

In 1946 a staff unit called the Base Map Control and Research Unit (also known as the Base Map Unit) was established in the Geologic Branch. The staff was responsible for maintaining an inventory of the base-map requirements of the Geologic Branch, providing a liaison with the Topographic Branch regarding technical problems relating to the use of aerial photographs in compiling geologic maps, and conducting research on the photogrammetric compilation of geologic data.

241. RECORDS CONCERNING THE BASE MAP UNIT. 1941-60. 2 ft.

Arranged by subject.

Correspondence; memorandums; maps; plats; technical reports; statistical tables and summaries; handwritten notes and calculations; bound reports; priority lists of the Geologic Division's mapping needs; completed order forms; price lists for maps; diagrams; circulars; press releases; a list of maps prepared and published by the Division; and other records relating to the administration, procedures, and policies of the Base Map Unit. Included is information concerning the procurement and distribution of maps within the Division; the priorities set and justifications made for mapping projects; cooperation with the USGS's Topographic Division and Federal units, such as the Department of Defense, Department of Agriculture, Bureau of Mines, and Soil Conservation Service; aerial- photo mapping; and contracts with private firms to furnish maps for the Geologic Division.

Also included are agendas, minutes of meetings, reports, memorandums, correspondence, and other records concerning the General Staff Committee, 1951-52. The Chief of the Unit was a member of the Committee.

The majority of the records date from 1946 to 1959. Many of the records dating from 1941-46 appear to be from the office files of Joseph W. Peoples, the geologist-in-charge of mapping for the Geologic Division before the Base Map Unit was established.

*Foreign Geology Section, 1942-47*

In 1944 a Committee for Cooperative Investigations Abroad was established to coordinate requests from other U.S. Government agencies and foreign governments regarding geologic work (especially on mineral resources) outside the continental United States and Alaska. The committee, composed of one representative from each section in the Division of Economic Geology, was responsible to the Chief of the Division of Economic Geology. In 1946 the committee was renamed the Section of Foreign Geology. Survey Order 171 merged the Foreign Geology Section with the Alaskan Section in 1948 and renamed it the Section of Alaskan and Foreign Geology (redesignated a branch in 1949). In 1952 Survey Order 216 established a separate Alaskan Geology Branch and the former Branch was renamed the Foreign Geology Branch. In 1969 the Foreign Geology Branch was restyled the Office of International Geology; it became an office-level unit in 1971, with two branches--Latin American and African Geology, and Middle Eastern and Asian Geology.

242. REPORTS AND RELATED RECORDS CONCERNING STRATEGIC MINERALS IN BRAZIL.  
ca. 1942-47. 14 ft.

The files are arranged by assigned number.

Correspondence with the State Department and local mine operators and agents, field-investigators' reports, maps and charts, photographs, and production and sales data concerning the purchase of strategic and critical minerals. Some of the records are in Portuguese.

The records were maintained in the Rio de Janeiro office of the U.S. Commercial Company. The company was incorporated in 1942 as a subsidiary of the Reconstruction Finance Corporation.

243. RECORDS CONCERNING THE QUARTZ COMMODITY PROGRAM IN BRAZIL. 1944-45. 10 in.

Arranged chronologically by date of report. Some general files are at the end of the series.

Chiefly narrative and statistical reports concerning mine development, contracts with owners, quartz production and sales. Also included are maps and charts, cross sections of quartz deposits, drawings of quartz crystals, and photographs.

The Quartz Commodity Program was administered by the Foreign Economic Administration.

244. REPORTS AND RELATED RECORDS CONCERNING THE MICA COMMODITY PROGRAM IN BRAZIL. 1943-46. 10 in.

Arranged by type of record.

Chiefly field reports, compiled jointly by USGS geologists Montis R. Klepper and David M. Larrabee, and a Brazilian mining engineer, that contain a description of mine workings (frequently illustrated by sketches), production data, and geologic setting. Also included are engineers' reports, monthly mine-production reports, correspondence, and photographs. Some records contain information on other minerals. A few of the records are in Portuguese.

The program was administered by the Foreign Economic Administration.

*Theoretical Geophysics Branch, 1942-96*

The functions that became the core work of the Geophysics Section of the Geologic Branch were transferred in 1936 from the Bureau of Mines under the provisions of 49 Stat. L., 1787, as originally recommended in 1933 by the Interior Department's Science Advisory Board. Known originally as the Geophysical Prospecting Section, the unit became the Geophysics Section of the Division of Areal Geology and Basic Sciences in 1946, a year before additional functions relating to geophysical exploration were transferred to it from the Bureau of Mines. The Section conducted magnetic, electrical, gravimetric, seismic, and geothermal investigations. The Section, restyled a Branch in 1949, continued to exist as a unit through several reorganizations of the Geologic Division. In 1961 the Geophysics Branch was renamed the Theoretical Geophysics Branch; in the following year, the Branch was transferred from the Division's Office of Geologic Processes to its new Office of Experimental Geology.

In 1945 the USGS began a study of volcanoes in the Aleutian Islands area. The work was initially funded by the Military Intelligence Division of the Office of the Chief of Engineers. After World War II funding was provided by the Office of Naval Research. At first the work was assigned to the Alaskan Branch. After the Alaskan Branch was abolished in 1946, and its geologic work was transferred to the Geologic Branch, the Aleutian volcano investigations were assigned to the Geophysics Section.

In 1948 the Geophysics Section, in cooperation with the United States Navy, conducted a preliminary gravimetric and oceanographic survey of a portion of the continental shelf in the Gulf of Mexico.

245. RECORDS CONCERNING PROJECTS. 1942-62. 4.5 ft.

Arranged by project, and thereunder either by type of record or chronologically.

Correspondence, tables, charts and maps, memorandums, progress and summary reports, draft and processed reports, budget allotments and justifications, and work plans.

The records concern projects such as gamma-radioactivity and seismic-refraction surveys done in conjunction with nuclear tests conducted by the Atomic Energy Commission in Nevada, geothermal profiles and permafrost studies of areas in Alaska, thermal and seismic investigations in the South Pacific, and proposed mineral-resource explorations of the continental shelf by the Bureau of Mines.

Also included is a list, compiled in 1956, of geophysical ground surveys, arranged by State, and with location maps, report lists, and references to unprocessed data.

The continental shelf records date from 1942. The remaining records date from 1950.

246. WORKING PAPERS OF IRWIN ROMAN. 1944-49. 15 in.

Arranged by subject or type of record.

Chiefly statistical tables and summaries, but also includes maps, plats, handwritten notes and calculations, and memorandums and diagrams that relate to gravity surveys in Missouri and Kansas, and the "Double Dip-Needle Project" in Woonsocket, Rhode Island. Also included are the reference materials, data, and preliminary report concerning an experimental survey near Shullsburg, Wisconsin, to test a method of interpreting electrical-resistivity measurements made by a form of the single-probe method.

247. RECORDS CONCERNING RADIATION INVESTIGATIONS. 1946-62. 3 ft.

Arranged by subject, and thereunder roughly chronologically.

Chiefly correspondence and memorandums, but also includes reports, statistical tables and summaries, completed work-plan and summary-of-expenditure forms, handwritten notes and calculations, annotated drafts of papers, publications, newspaper clippings, graphs, diagrams, and other records concerning the administration and programs of the Radiation Section of the Theoretical Geophysics Branch. Included is information relating to the plans, progress, and results of Radiation and Trace Elements investigations; and budget requests, allotments, and expenditures. Cooperation with other USGS divisions, Federal agencies, especially the Atomic Energy Commission, and foreign countries; research and use of radiation instruments and equipment; and personnel matters. Some of the projects include radon and helium investigations in Texas; gamma-ray spectrum studies; airborne radiation survey of Liberia; resistivity studies; uranium in core samples; the Atomic-Waste Disposal Program; and seismic exploration and research.

Also included are agendas, minutes, abstracts, copies of papers, and press releases concerning United Nations Conferences and other professional meetings.

248. GEOPHYSICAL INVESTIGATIONS MAPS. 1946-96. approx. 910 items. [NWCS, maps and plans]

Unnumbered maps followed by maps numbered from GP-1 to GP-1016. The maps show the results of magnetic reconnaissance surveys. The series includes a map titled "Black and White Composite Magnetic Anomaly Map of the United States" (GP-960G), prepared in cooperation with the Society of Exploration Geophysicists. Most of the maps are folded.

249. RECORDS CONCERNING GEOPHYSICAL INVESTIGATIONS OF THE ALEUTIAN VOLCANO PROJECT. 1948-54. 1.5 ft.

Arranged by subject or type of record.

Included are reports, working papers, seismograph-report forms, data on the calibration of scientific instruments, and tiltmeter records. Also included are photographs of volcanic activity and aerial contact prints. The first box contains a 1952 summary of the work. The last box holds labeled envelopes containing artifacts (spear points) and rock fragments.

The Aleutian Volcano Project was a joint investigation of the USGS and the Office of Naval Research. Most of these records were compiled or gathered by Austin E. Jones, a member of the Volcano Investigations Unit based at Adak Island.

250. MAPS, CHARTS, AND GRAPHS CONCERNING MINERAL DEPOSITS IN MINNESOTA. n.d. 31 items. [NWCS, maps and plans]

The records appear to show locations of ground magnetic readings.

*Trace Elements Planning and Coordination Office, 1946-62*

Work on trace elements, which began in the Metals Section of the Division of Economic Geology, was assigned to the newly established Trace Elements Unit in 1945. Later the unit was renamed the Trace Elements Planning and Coordination Office (TEPCO). Briefly in 1949 and 1950 the office was under the immediate direction of the Trace Elements Planning Committee. TEPCO was organizationally a staff function in the Office of the Chief Geologist.

TEPCO was responsible for coordinating the scientific and technical assistance rendered to the Atomic Energy Commission by the Geologic Branch (later Geologic Division) in the exploration for and appraisal of sources of strategic minerals, particularly radioactive raw material under the provisions of the Atomic Energy Act of August 1, 1946 (60 Stat. L., 755), and the Defense Production Act of September 8, 1950 (64 Stat. L., 798). Much of the field work was done by the staff of the Mineral Deposits Branch.

251. RECORDS CONCERNING USGS EXPLORATION AND WITHDRAWAL OF MINERAL-BEARING LANDS. 1946-56. 5 in.

Arranged by subject, and thereunder chronologically.

Chiefly correspondence and memorandums, but also includes reports, statistical tables and summaries, handwritten notes, plats, and other records, concerning the withdrawal from entry of mineral lands bearing radioactive ores and their subsequent restorations in Colorado, Utah, Wyoming, and on the Navajo Indian Reservation. Recommendations regarding withdrawal and restorations were made to and acted upon by the Mining Branch of the Conservation Division under the provisions of the Atomic Energy Act of 1946.

Also contains information relating to USGS policies on field investigations, the release of drilling information to the public, and the agreements made between property owners and the Federal Government for drilling exploration.

252. ATOMIC ENERGY COMMISSION CHRONOLOGICAL FILE. 1947-62. 5 ft.

Arranged chronologically.

Chiefly correspondence and memorandums, a few of which are accompanied by reports, statistical summaries, handwritten notes, plats, and diagrams concerning cooperation between the TEPCO and the Atomic Energy Commission (AEC). The records contain information relating to the planning, progress, and results of cooperative projects, particularly uranium investigations; publication of reports; results of laboratory analysis; allotments and expenditures; and personnel matters. Related records are described in entry 253.

253. CHRONOLOGICAL FILES. 1948-60. 6 ft.

Arranged chronologically.

Correspondence and memorandums concerning the administration and programs of the TEPCO. Included is information relating to investigations of uranium and related trace elements, cooperation with the AEC, results of laboratory analysis, conferences and meetings, allotments and expenditures, and personnel matters.

For other records relating to cooperation with the AEC, see records described in entry 252.

254. TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORTS. 1951-1955. 15 in.

Arranged alphabetically by State (including the Territory of Alaska), and thereunder chronologically. The first file contains an index to the reports that lists them by assigned number.

The reports include date; examiner's name; property name; owner, and location; mine workings; type of examination; type of counter used; type, age, and analysis, if a radioactive deposit was present; wall rocks, ore minerals, and gangue minerals of the mine; and potential production.

255. RECORDS CONCERNING TEPCO-AEC CONFERENCES. 1947-56. 1 in.

Arranged chronologically.

Correspondence, memorandums, and reports concerning conferences and meetings of the Trace Elements Planning and Coordination Office and the Atomic Energy Commission. Included is information relating to cooperative projects, such as radiation, uranium, and helium investigations, and nuclear irradiation studies; methods of research; land withdrawals for exploration; and allotments and expenditures.

256. RECORDS CONCERNING THE BUDGET OF THE TRACE ELEMENTS PROGRAM. 1955-56. 0.5 in.

Arranged chronologically.

Memorandums, statistical tables and summaries, and handwritten calculations concerning the budget for the Trace Elements Program" in Fiscal Years 1956 and 1957. The program was co-sponsored by the USGS Geologic Division and the Atomic Energy Commission's Division of Raw Materials. Also included is a "Report of the Committee on the Geologic Division's Future Nuclear Energy Program."

257. MAPS THAT ACCOMPANIED TRACE ELEMENTS MEMORANDUMS. 1954-59. 8 items. [NWCS, maps and plans]

Arranged by Trace Elements Memorandum number.

Maps prepared in cooperation with the Atomic Energy Commission showing locations of radioactivity anomalies.

*Alaskan Geology Branch, 1946-78*

The Alaskan Geology Branch was established in 1946 with headquarters located in San Francisco, California, and a coordination and liaison office in Washington, D. C. The branch was made responsible for all the functions of the Alaskan Section of the former Alaskan and Foreign Geology Branch. The new branch also assumed the functions and responsibilities of the Aleutian Investigations Unit of the Areal Geology Branch.

The Navy Oil Unit, also referred to as the Navy Oil Program, had been organizationally part of the former Alaskan Section, but was managed from the Director's Office. Beginning in 1944 USGS geologists mapped the surface geology, studied subsurface samples and geophysical data, and conducted airborne-magnetic surveys to improve their understanding of the geologic framework and assess the resources potential of areas within and adjacent to Naval Petroleum Reserve No. 4. In 1945 the Navy Department transferred a portion of an appropriation made to investigate the oil prospects to the USGS, whose personnel operated out of a field office and laboratory in Fairbanks, Alaska.

In 1945 an Operating Committee was formed, which functioned as a Board of Directors for the entire exploratory program. The committee was originally made up of the Director of Naval Petroleum Reserves, the Director of the USGS, the Project Manager of Arctic Contractors, a representative of Hoover, Curtice, and Ruby, a representative of the Secretary of the Navy, and a representative of the Bureau of Yards and Docks. A representative of the Army-Navy Petroleum Board was added later. Although funding for exploratory work ceased in 1953, geologists continued to work in the vicinity of the Reserve. Between 1977 and 1982 the USGS managed a Navy- and Interior-sponsored program of exploration to access the oil and gas potential of the entire reserve, which had been renamed in 1976 the National Petroleum Reserve in Alaska.

258. MINUTES OF MEETINGS AND RELATED RECORDS CONCERNING THE OPERATING COMMITTEE OF THE NAVY OIL UNIT. 1946-52. 3 ft.

Arranged by meeting (some nonconsecutive meetings are grouped together), and thereunder by type of record.

Includes agendas, minutes and transcripts of meetings, correspondence, reports presented to the committee, and maps depicting results of seismic surveys. Included are some working papers of the Executive Operating Committee. The minutes of the meetings do not form a complete set.

259. WEEKLY REPORTS OF THE OPERATING COMMITTEE OF THE NAVY OIL UNIT. July 1946 - June 1953. 2 ft.

Arranged chronologically.

Weekly reports from the project manager, at Point Barrow, Alaska, to the Chairman of the Operating Committee, concerning the status of construction projects. Some reports are accompanied by financial statements, work schedules, test-well logs, and reports of technical personnel.

260. LOGS OF BRANCH DAILY CORRESPONDENCE. Jan. 2 - June 30, 1957. 5 in.

Arranged chronologically.

Chiefly copies of outgoing letters and memorandums concerning Branch programs, including activities of the Navy Oil Unit. There are also technical reports and forms showing the status of projects.

261. BRANCH RECORDS CONCERNING CORE SAMPLES. 1947-53. 6 in.

Arranged by type of record, test site, or type of test.

Chiefly core-analysis data forms and record sheets, but also includes some correspondence, memorandums, and charts of test wells.

262. BRANCH REPORTS. 1946-53. 4 ft.

Arranged by type of report--preliminary, special, and regular--and thereunder by assigned number.

Typescript and processed reports compiled by USGS geologists concerning investigations of the region in northern Alaska designated as Naval Petroleum Reserve No. 4. Most of the reports are accompanied by maps and charts.

263. MISCELLANEOUS RECORDS OF THE NAVY OIL UNIT. 1949-53. 2 in.

Arranged by subject.

Includes correspondence, memorandums, reports, maps information issuances, and maps concerning photogeology; status of Navy projects at Point Barrow, Alaska; stratigraphic nomenclature; and Operating Committee study programs.

264. PUBLISHED ALASKA QUADRANGLE MAPS. 1905-50. 77 items. [NWCS, maps and plans]

Arranged by series and thereunder by number.

The file contains "old series" maps numbered from 540A to 657, and "new series" maps numbered from 3 to 54. The series also includes index maps (1912 and 1927) to the "old series" items.

265. GEOLOGIC MAPS OF ALASKA. 1957, 1978. 5 items. [NWCS, maps and plans]

The maps are printed. The 1978 map is in sections.

*Fuels Branch, 1908-96*

Beginning in 1908 a number of organizational units were formed in the Geologic Branch to investigate the occurrence and extent of mineral-fuel deposits. In 1913 the two geographic-fuels units in the Section of Economic Geology were given separate status as the Sections of Eastern and Western Mineral Fuels. In 1917 these sections were recast by commodity as well as geography in three sections--the Geology of Eastern Coal Fields, the Geology of Western Coal Fields, and the Geology of Oil and Gas Fields. The two coal sections were merged as the Geology of Coal Fields in 1919. The coal and oil-gas units were consolidated in 1924 as the Geology of Fuels Section. In 1949 the Fuels Section was restyled the Fuels Branch. In the 1960's the Fuels Branch became the Branch of Organic Fuels and then the Branch of Organic Fuel and Chemical Resources. The latter unit again was divided by commodity in 1972 into the Branches of Oil and Gas Resources, Coal Resources, Chemical Resources, and Uranium-Thorium. The first two of these units retained their names after 1972. During the 1980's the Branch of Chemical Resources was renamed Sedimentary Mineral Resources before being merged with the Uranium-Thorium unit as the Branch of Energy Minerals.

266. STATISTICS CONCERNING INTERNATIONAL COAL IMPORTS AND EXPORTS. 1913-17. 2 in. 1 vol.

Entries are arranged by country or geographic area and thereunder by year. A table of contents appears inside the front cover.

The entries consist of three columns showing the amount of coal produced, imported, and exported. Often the county from which it was imported or to which it was exported is listed with the amount. Many counties listed have no entries.

The statistics may have been gathered as part of an analysis of the availability of coal at coaling ports for Allied ships during World War I. There is a particular emphasis on the importance of regional coal supplies, especially those supplies originating in the United States and Great Britain. An undated typescript copy of an article titled "The Strategic Importance of the World's Coaling Stations" is inserted in the volume.

267. RECORDS RELATING TO FOSSIL-FUEL INVESTIGATIONS. 1921-49. 4.5 ft.

Arranged alphabetically by State or geographic area, and thereunder by region, project, or other subject. There are a few miscellaneous files boxed at the end of the series. Records concerning Utah date from 1930 and records concerning Wyoming date from 1921. The remaining records date from 1942.

The records consist of correspondence, memorandums, work plans, progress reports, logs of drill holes, press releases, maps and charts, expense statements, conference summaries, and printed reports.

The records concern the compilation of topographic and geologic maps to facilitate the discovery and assessment of coal, oil, oil-shale, tar-sand, and natural-gas reserves. Some field investigations were done in cooperation with the Navy Department, Bureau of Mines, and State agencies. Most of the records concern investigations initiated because of World War II.

268. GENERAL ADMINISTRATIVE FILES. 1925-53. 5 ft.

Arranged by numeric-subject file system. A list of file titles appears as Appendix 16 in this inventory. The Bureau of Mines file (3.b) contains records dating from 1925 and the Preparation of Maps and Reports File (20.e) contains records dating from 1931. The remainder of the records date from 1944.

Correspondence, memorandums, administrative issuances, budget justifications and other fiscal records, proposals for field work, periodic reports, minutes of meetings, conference summaries, annotated maps, Professional Papers, organization charts, press releases, copies of legislation, and cooperative agreements.

The records concern branch organization and programs; continental-shelf work; oil, oil-shale, natural-gas, and trace-elements investigations; cooperation with State agencies, and departmental and interagency committees; personnel matters; appropriations, allotments and budgets; and participation in the Fourth World Power Conference.

269. RECORDS CONCERNING EASTERN FIELD INVESTIGATIONS. 1923-55. 9 ft.

Arranged alphabetically by State or area, and thereunder chronologically--by project or geographic area. The larger files are titled Appalachian, Alabama, Arkansas, Florida, Kansas, Kentucky, Maryland, Michigan, Mississippi, North Carolina, Oklahoma, Pennsylvania, Tennessee, Texas, and Virginia. The State listed sometimes indicates only the location of the field office, not where the work was done. Most of the records date from 1944. The records concerning Kansas date from 1923 and the records concerning Mississippi date from 1936.

Correspondence, memorandums, periodic reports of progress, drafts of professional and technical papers, press releases and other information issuances, work plans and program proposals, cooperative agreements, summary reports on fossils, logs of drill holes, gas-production data and maps.

The records concern administrative matters such as the location of field offices and assignment of personnel; cooperation with States; and oil, oil-shale, coal, and natural-gas investigations.

270. RECORDS CONCERNING WESTERN FIELD INVESTIGATIONS. 1938-54. 12 ft.

Arranged alphabetically by State (California, Colorado, Idaho, Missouri, Montana, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming), and thereunder by project or geographical area. The Missouri file chiefly concerns the Missouri River Basin. Records concerning California and New Mexico begin in 1938. The remaining records date from 1943.

Correspondence, memorandums, press releases, progress reports on field work, allotment forms, program proposals, drafts of Professional Papers, summary reports on fossil deposits, logs of drill holes, and maps and sketches.

The geologic surveys were undertaken to determine the probable location and extent of oil, oil-shale, natural-gas, coal, and tar-sand deposits. The surveys frequently resulted in the revision of geologic maps.

271. MISCELLANEOUS ADMINISTRATIVE AND PROJECT FILES. 1949-54. 2 ft.

Arranged by subject.

Correspondence, memorandums, project progress reports, summaries of meetings and conferences, administrative issuances, personnel lists, work plans, and maps. The records concern the scope of branch programs and the status of individual projects.

272. PHOTOGRAPHS OF AN OIL-SHALE PLANT. ca. 1927. 22 items. 1 booklet.

Arranged by assigned number (from 62 to 85). Some numbers are missing. This booklet is filed with the textual records.

Mounted and black and white photographs are bound in a booklet titled "Supplement to Experimental Oil Shale Plant Pictorial Report." The photographs show retorts, the crusher, hopper, condenser assembly and other equipment.

The location of the report is not known.

273. CENTRAL CLASSIFIED FILES. 1953-58. 8 ft.

Arranged according to the same subject-numeric file system used for the Central Classified Files, 1953-74, described in entry 52 (appendix 4).

Correspondence, memorandums, allotment forms and other fiscal records, press releases and processed issuances, proceedings of regional supervisors' conferences, project descriptions, and program plans.

The records concern the development and administration of branch programs, cooperation with State agencies, assignment of personnel, organization and location of field offices, and related matters. Most of the projects discussed in these files concern coal investigations.

274. MAPS SHOWING THE LOCATIONS OF OIL AND GAS FIELDS. 1914-64. 18 items. [NWCS, maps and plans]

An unnumbered series of printed maps titled "Oil and Gas Fields of the United States." All of the maps are in two sections. All of the maps are at 1:250,000. The legend varies from map to map.

275. MAPS PUBLISHED IN *THE OIL AND GAS JOURNAL*. 1932, 1934. 3 items. [NWCS, maps and plans]

The maps are titled "The Oil and Gas Journal's Map of Oil and Gas Pools in the United States and Canada," and "The Oil and Gas Journal's Map of Oil and Gasoline Trunk Pipe Lines in the United States."

276. OIL AND GAS INVESTIGATION MAPS. 1944-92. approx. 270 items. [NWCS, maps and plans]

The maps numbered from 1 to 109 are preliminary maps. Maps numbered from 110 to 224-C on carry the prefix "OM." Some of the maps are folded.

277. OIL AND GAS INVESTIGATION CHARTS. 1944-96. approx. 160 items. [NWCS, maps and plans]

The preliminary charts are numbered from 1 to 39. Charts numbered from 55 to 148 carry the prefix "OC." About half of the maps are folded.

278. MAPS SHOWING THE LOCATIONS OF COAL FIELDS IN THE UNITED STATES. 1908-61. 18 items. [NWCS, maps and plans]

Most of the maps are in sections and some are accompanied by text.

279. COAL MAPS. 1935-49. 23 items. [NWCS, maps and plans]

Unnumbered maps showing areas in Alabama, Colorado, Georgia, North Carolina, Oklahoma, Utah, Washington, and Wyoming. Twelve of the maps are of Oklahoma and are dated 1935 and 1944.

280. COAL INVESTIGATION MAPS. 1950-95. approx. 180 items. [NWCS, maps and plans]

Arranged numerically from C1 to C146. Many of these maps are folded.

281. COAL MAP OF NORTH AMERICA. 1988. 2 items. [NWCS, maps and plans]

An oversized special geologic map at 1:5,000,000. The map is in two sections, north half and south half. The map is accompanied by a booklet of explanatory text.

*Military Geology Branch, ca. 1918-64*

The Geologic Branch established an informal unit in June 1942 to prepare "geologic reports for military use in areas of strategic importance." The Military Geology Unit (MGU) was equivalent organizationally to a Section. The MGU operated under an interdepartmental cooperative agreement, formalized the following October, between the War and Interior Departments. With direction and funds from the Office of the Chief of Engineers, the MGU's staff prepared intelligence reports about the terrain, engineering concerns, soils and geology, ground-water resources, and available construction materials on the areas selected by the Army Engineers. The MGU played a significant role in planning for the invasion of Sicily, but its work thereafter in World War II was focused on the Pacific.

The MGU was formalized as in 1946 and restyled a Branch in 1949. The Military Geology Branch (MGB) conducted a wide range of special studies for the U.S. Army and its Engineers, the U.S. Air Force, the Defense Intelligence Agency (DIA), and the Civilian Intelligence Agency. The MGB's Strategic Studies (1945-72) contributed to the comprehensive, small-scale products of the National Intelligence Survey. Other Cold-War programs by the MGB included Pacific Engineer Intelligence (1959-65), Pacific Geologic Surveys (1946-62), Alaska Terrain and Permafrost (1947-65), USGS Team in Europe (1954-64), Austere Landing Sites (1956-70), Special Intelligence (1959-72), and Nuclear-Test Detection (1962-72). In 1960 the USGS established a Special Projects Branch (SPB); the SPB and the MGB reported to the Office of Interagency Programs and Special Services. Administrative control of the two branches passed to the Assistant Chief Geologist (ACG) for Engineering Geology in 1963 and to the ACG for Environmental Geology in 1969. Most of the MGB's functions had been given to the DIA and other agencies before the Branch was disestablished in 1972. The SPB was discontinued in 1980.

282. GENERAL CORRESPONDENCE FILES. 1943-53. 2 ft.

Arranged by subject, and thereunder chronologically.

Primarily correspondence, but also includes project plans, reports, memorandums, minutes of meetings, conference agendas and summaries, lists of geographic names, charts, and graphs. The records concern the allocation of personnel, allotments and expenditures, and other administrative actions relating to terrain and permafrost investigations in Alaska, geologic surveys of the Pacific Basin, postwar topographic and mineral-resource surveys in Central Europe, and technical cooperation with the Joint Research and Development Board, created in 1946, and its successor, in 1947, the Research and Development Board (Department of Defense).

283. REPORTS ON GEOLOGIC INVESTIGATIONS OF WESTERN NORTH PACIFIC ISLANDS AND RELATED MATTERS. ca. 1947-64. 3 ft. 78 volumes and unbound papers

Arranged by subject.

Chiefly bound reports, catalogues, bibliographies, gazetteers, and technical manuals compiled by the Military Geology Branch (for the Office of the Chief Engineer, General Headquarters, Far Eastern Command) translating and summarizing Japanese geological literature. The subjects include mineral and fuel resources, terrain studies, soil surveys, geophysical-research methods, and related geologic studies. Some of the reports were prepared with the assistance of the Soil Conservation Service of the Department of Agriculture. There are also processed monographs concerning water supplies, harbor development, and construction of airstrips and storage depots. Geographic areas addressed include Ryukyu-Retto, the northern Ryukyus, Okinawa, the Palau Islands, the Mariana Islands, Formosa (Taiwan), and Japan. Some reports include maps and copies of photographs.

There are similar reports on areas in Korea, the Aleutian Islands, and Germany. A file of unbound material consists of questionnaires, correspondence, notes, and manuscript reports concerning water supplies for cities in Japan.

Related records are described in entry 628.

284. RECORDS CONCERNING PACIFIC GEOLOGIC SURVEYS. 1947-60. 5 ft.

Arranged by subject or type of record, and thereunder chronologically.

Correspondence, periodic reports of progress, memorandums, statistical data, drafts of technical papers and studies, drill-core analysis charts, meeting summaries, index maps, photostatic copies of maps compiled by Japanese geologists, and bibliographic lists concerning mineral resources, water supplies, sanitation, topography, and geology of areas that include Japan, Korea, Manchuria, the Ryukyu Islands, the U.S. Trust Territory of the Pacific Islands, and Guam.

The Pacific Geologic Surveys Section, located in Tokyo, also cooperated with United States military authorities, searched university libraries to compile lists of resource materials, translated technical papers, and maintained liaison with mining companies.

285. RECORDS OF THE ALASKA TERRAIN AND PERMAFROST SECTION. 1945-54. 7 ft.

Arranged alphabetically by project, surname of individual, agency, or other subject.

Correspondence, orders, circulars and other administrative issuances, minutes of meetings, financial statements, allotment summaries and other fiscal records, memorandums, program plans, progress and project status reports, analysis of drill cores and soil samples, and topographic and geologic maps. The records concern Alaska projects, such as the Aleutian volcano investigations, Arctic Research Laboratory, hydrologic surveys, land classification, naval petroleum reserves, and administrative matters relating to personnel assignments, cooperation with the Army Corps of Engineers, departmental field committees, and other USGS units, and publication of professional papers based on field work.

286. PRELIMINARY MAPS CONCERNING STRATEGIC-MINERALS INVESTIGATIONS. ca. 1940-46. 33 items. [NWCS, maps and plans]

Printed geologic maps and correlation charts showing geologic strata and deposits of minerals such as bauxite, and occurrences of copper, iron, lead, phosphate, tungsten, and zinc. Some maps are labeled "War Mineral Investigations."

287. GERMAN-LANGUAGE GEOLOGIC MAPS. ca. 1918-44. approx. 4200 items. [NWCS, maps and plans]

Arranged by county or region, and sometimes thereunder by subject. Some maps concerning a city or area are in bound sets. About one quarter of the maps are folded to accompany booklets in file cases. Some maps are marked "Heringen Collection."

Included are published maps, topographic and geologic maps, tracings, and what appear to be annotated air-photo maps. The maps, which generally concern military geology, economic geology, lithology, topography, and water

resources, center on specific subjects such as vegetation and soil types, locations of raw materials, industrial infrastructure, ground-water and surface-water resources, floods and canals, coastlines and river deltas, and highway and railroad systems. Some of the maps are in color.

The maps and booklets in the file cases also include information about geography; coordinates for aircraft; and charts of power stations, sub-stations, and generating systems. Some of the booklets dedicated to a region or country include information about the number of hotels, post office and telephone facilities, and kilometers to the nearest large city. Some of the counties and regions covered in these materials are France, Belgium and the Low Countries, the British Isles, Ireland, the Scandinavian counties, the Baltic States, Poland, the European portions of the USSR, Italy, Romania, Malta, Greece, Turkey, Yugoslavia, the Middle East, North African countries, and India.

## National Mapping Division, 1853-1995

Operations by the USGS Topographic Branch originated in part in the practice by the “King Survey,” from its beginning in 1867, of mapping topography and geology simultaneously in the field. The territorial surveys led by Hayden and Powell adopted this method early in the 1870’s. When Congress did not establish the proposed “Coast and Interior Survey” in 1879 to conduct all geodetic, land-parceling (cadastral), and topographic surveys, Director King began within the USGS a modest program of topographic mapping led by Chief Topographic Engineer Allen D. Wilson, who had served with the “King Survey” and the “Hayden Survey.” Wilson’s topographers provided the base maps the USGS required for the geologic mapping of mining districts and geologic regions in the West. Congress also did not approve restoring the “Wheeler Survey” or establishing an equivalent agency within the War Department for national mapping, but an act of August 7, 1882 (22 Stat. L., 329), provided increased funds to the USGS “to continue the preparation of a geological map of the United States.” As Congress had disapproved earlier resolutions to extend officially USGS work outside the public-land States and Territories, this statute was intended by its sponsors to authorize the agency’s operations nationwide.

Under the new law, Director Powell hired additional topographers and began the nationwide program of topographic mapping, supervised by Chief Geographer, Henry Gannett, a veteran of the “Hayden Survey” and the Tenth Census. The work and field organization of the USGS Geographic Branch (later Topographic Branch) was organized by geographic regions, “but controlled by geologic considerations.” Sections of drawing, astronomy and computing, and instruments supported the Branch’s geographic sections and subsections. In 1888 Congress began making specific line-item appropriations for topographic surveys.

Director Walcott reorganized the Topographic Branch into the Divisions of Triangulation and Topography and four geographic sections in 1894, placed its employees under civil-service rules, and improved the quality of their products. In 1896 Walcott transferred Gannett to other duties and took direct administrative charge of the Branch. In the same year Congress authorized the placement of bench marks by USGS topographers and the sale to the public of their topographic maps. Control of the Branch passed in 1900 to a Topographic Committee led by Richard U. Goode, whom King had appointed to the USGS in 1879. In 1907 the Branch was reorganized according to a plan prepared by a committee headed by Robert B. Marshall, who was made Chief Geographer in 1908. In 1919 the title of the Branch’s chief was restored to Chief Topographic Engineer. Claude H. Birdseye led the Topographic Branch between 1919 and 1929.

An act of March 3, 1891 (26 Stat. L., 1103), authorized the creation of forest reserves and placed them under the administrative control of the Interior Department’s General Land Office (GLO). In 1896 Director Walcott established within the Topographic Branch a Division of Geography and Forestry, administered by Gannett, to handle matters concerned with general geography, including the preparation of papers and the compilation of related maps. The act of June 4, 1897 (30 Stat. L., 34), directed the Secretary of the Interior to survey public lands that had been or might be designated as forest reserves. An act of February 1, 1905 (33 Stat. L., 628), transferred the management of the forest reserves, renamed national forests, to the Department of Agriculture’s Bureau of Forestry, which had been established as a Division in 1881. The USGS shifted the classification of the national forests to the Bureau of Forestry, but retained as a separate line item the topographic and special surveys of the national forests until they were combined in 1918 with the general line item for topographic surveys. An act of March 4, 1907 (34 Stat. L., 1269), renamed the Bureau of Forestry the Forest Service.

The Topographic Branch continued to be organized chiefly by regions. In 1905 the Branch comprised the Divisions of Western Topography, Eastern Topography, and Geography. The field work, processing of field data, and map preparation was supported by Sections of Triangulation and Computing, Inspection of Surveying and Mapping, and Instruments and Records. In 1907 the Branch reformed its geographic units into Atlantic, Central, Rocky Mountain, and Pacific Divisions. By 1921 their support units were organized in sections responsible for computing, drafting, inspection and editing, relief maps, and photo mapping. Thomas P. Pendleton served as Chief of the Section of Photographic Mapping.

During and after World War I the Topographic Branch actively developed or refined techniques and instruments for improving aerial photography and using the products to compile maps. Chief Topographic Engineer Birdseye encouraged the Branch's experiments with the new photogrammetric methods of mapping for surveys in the United States and in Haiti. In 1923 Birdseye led the second half of the USGS survey of the topography along, and the water-power, irrigation, and flood-control potential of, the Colorado River; subsequently, he supervised the ground and photogrammetric mapping of the site of Hoover Dam. In 1933 the USGS and the new Tennessee Valley Authority (TVA) began cooperative projects that included a multiplex-photogrammetric survey of the entire valley to provide coverage by first planimetric and then topographic maps. In World War II some of the TVA-project veterans continued the strategic-mapping program for the War Department, including aids to strategic and tactical bombing, and other operations in the combat theaters, and the strategic-mineral surveys. Branch personnel also developed the trimetrogon method of rapidly producing topographic maps, shaded-relief maps, and aeronautical charts of areas worldwide.

In 1946 the Topographic Branch established the Plans and Coordination Division and Research and Technical Control Division as headquarters-staff units to handle administrative matters and coordinate Branch functions. The two Staff Engineers appointed in 1945 became Assistant Chief Topographic Engineers in charge of these new divisions. They advised the Chief Topographical Engineer on matters relating to long-range planning and program development and those involving research strategies and technical standards. In 1949 the Topographic Branch was restyled a Division and its subordinate divisions became branches. In the same year, in response to increasing exploratory work on the continental shelf, the Division began including on its topographic maps that showed coastal and navigable waters information about underwater contours, certain obstructions, and other landmark features.

In 1980 the Topographic Division was reorganized and renamed the National Mapping Division. The Divisions received from the Director's Office the Geography Program of its Land Information and Analysis (LIA) Office and the major portion of the discontinued Publications Divisions. LIA was renamed the Office of Earth Sciences Applications, but discontinued in 1982 and its Earth Resources Observation Systems Program passed to the National Mapping Division.

*General Records, 1879-1982*

288. GENERAL ADMINISTRATIVE FILES. 1879-1947. 57 ft.

Arranged numerically in subject categories, and thereunder in rough chronological order. A few subjects are further subdivided alphabetically by surname of correspondent. Records relating to some subjects were filed under several numbers. As an example, files concerning the Forest Service are numbered 100.3 and 162. A list of file titles appears as Appendix 17 in this inventory.

Correspondence; annual, project, and field inspection reports; memorandums; State and Federal legislative bills and related documents; minutes of meetings; circulars, Survey Orders and other processed issuances; allotment tables, financial statements and other fiscal records; plats and maps; lists of employees; and newspaper clippings.

The records document the functions and programs of the Topographic Division, particularly its mapping programs undertaken in cooperation with municipalities, counties, States, Federal agencies, interdepartmental committees, and other USGS units; development of systematic mapping symbols and uniform scales for government maps; and adoption of photogrammetric techniques and advanced map-making processes. Also included are records relating to map editing and printing, the Board of Surveys and Maps, the Temple bill (Temple Act of 1925; 43 Stat. L., 1011), position classification and other personnel matters, and emergency-relief projects. A compilation, prepared about 1910, shows the funds allocated by the USGS for topographic mapping from 1879 (File 19). Many of the early records concern appropriations, expenditures and estimates, and USGS cooperation with States. There are a few items dated after 1947.

289. GENERAL ADMINISTRATIVE FILES. ca. 1890-1953. 55 ft.

Arranged by subject according to a decimal-classification scheme, and thereunder chronologically. Some subjects are subdivided by surname of correspondent, agency, company, State, geographic area, project, or type of record. The file system was adopted from the one used for the General Classified Files, 1912-53, of the Office of the Director (entry 51). A list of file titles appears as Appendix 18 in this inventory.

Correspondence, memorandums, departmental and USGS administrative issuances, estimates, justifications and other fiscal records, annotated maps and plats, USGS press releases, minutes of General Staff Committee meetings, legislative and other congressional documents, magazine and newspaper clippings, periodic reports of Division activities, telegrams, photographs, and resolutions, minutes of meetings and reports of professional organizations.

The records primarily concern administration of topographic-mapping programs; cooperation with States, USGS units, Interior Department agencies, departmental and interdepartmental committees, other Federal agencies, and foreign countries; development of mapping techniques and methods; appropriations; personnel matters; and liaison with professional associations. A large segment of the records is designated File 571, Cooperation with States. This file, which is arranged alphabetically by State or other area, contains many of the records in this series dated before 1947. The earliest document is an cooperative agreement with Rhode Island in 1888.

The records also concern triangulation surveys and topographic mapping, and include cooperative agreements, State legislative bills and documents, reports on surveys (some reports include a history of topographic surveys in a State), and sketches of triangulation stations. This file includes records concerning survey work in Cuba, Haiti, Hawaii, and Santo Domingo. Other files document work in geographic areas: File 573, Alaska (the records date from 1900); and File 900, divided into the Atlantic, Central, Rocky Mountain, and Pacific Regions.

Earlier central files of the Division are described in entry 288 and later central files in entry 290.

290. CENTRAL CLASSIFIED FILES. ca. 1947-59. 84 ft.

Arranged according to a subject-numeric classification system, the same as that used for the central classified files, 1953-74, of the Office of the Director (entry 52). A list of file titles appears as Appendix 19 in this inventory. The primary subject headings are Accounting (from 1939), Budget, Buildings and Grounds, Committees, Communications (from 1939), Contracts, Cooperation (from 1944), Education, Equipment and Supplies, Forms, Information (from 1924), Inventories, Legal, Map Distribution, Map Production, Meetings, Organization and Management, Personnel (from 1939), Programs and Plans, Public Relations, Records, Reports and Statistics, Reproduction, Research, Security, Topographic Surveys (from 1938), Transportation, and Vehicles. The dates given in parentheses above show the date of the earliest document found in that subject category. Many subjects are further subdivided by project, USGS unit or region, committee, Federal agency, or State. Many files contain documents dating from 1947, but most of the records date from 1953.

Correspondence; memorandums; monthly narrative and statistical reports from Division units; reports on conferences, field trips, and mapping projects; minutes of meetings and reports of interagency committees, boards, and the General Staff Committee; newspaper clippings; press releases; Survey and departmental orders, and other administrative issuances; budget justifications, project authorizations, and other fiscal records; annotated maps; cooperative agreements; congressional bills and documents; and mapping instructions and specifications.

The records concern the administration of topographic survey and mapping programs; budgets and allocation of funds; cooperative projects; organization and management of the Division; mapping techniques and instruments; policies and procedures relating to the compilation, revision, and distribution of maps; and personnel matters.

291. HISTORICAL RECORDS COLLECTION. ca. 1879-1975. 25 ft.

Arranged by type of record or subject. A box list showing most of the series contents is in the first box. Records of a similar type or relating to the same subject are often, but not always, found together.

An eclectic collection of materials that relate to the personnel, programs, and history of the Topographic Division. Included are instructions, technical manuals, brochures, pamphlets, drawings, and photographs concerning aerial photography and apparatus (some items are in German, French, and Italian); newspaper clippings, lists, birth certificates, award citations, memorials, biographies, and other items concerning the appointment, service, and professional accomplishments of the Topographic Division personnel; notes, manuscripts, and correspondence concerning the history of the Division; memorandums, Survey Orders and other administrative issuances, organization charts, correspondence, copies of legislation, summaries of staff meetings and conference, and press releases relating to the organization and operation of the Division and the USGS.

This collection was gathered and maintained by Nell Carico, a member of the Topographic Division staff.

292. FISCAL RECORDS CONCERNING FIELD EXPENSES OF THE GEOGRAPHIC DIVISION. 1887-88. 6 in.

Arranged chronologically (2nd quarter of 1887 and 2nd quarter of 1888) and thereunder by type of document.

Vouchers, abstracts of disbursements, and other related records for salaries, transportation, lodging, equipment, and expenses of field parties--chiefly in California. The records were compiled by James C. Pilling, Special Disbursing Agent.

293. RECORDS OF CAPTAIN WILLIAM O. TUFTS. 1916-19. 2 in.

Arranged in rough chronological order.

Chiefly correspondence, completed forms, vouchers, lists of equipment, and other records relating to Tufts' service with the 29th Engineers, American Expeditionary Forces, while on military leave from the Division. Tufts' duties, while stationed in France, included delivering lectures on the interpretation of aerial photographs.

294. REFERENCE FILE. ca. 1917-41. 10 in.

Arranged by subject or type of record. A subject titles list accompanies the records.

Includes principally typescript, processed, and printed copies of articles, reports, and professional papers, but also contains correspondence, minutes of meetings, newsletters, and bulletins of the American Engineering Council, biographies of prominent topographers, congressional documents, and other records concerning mapping programs in the United States and other countries. The records include an author's edition of a "Report of Geographical Field Work in the Yellowstone National Park," (in 1878) by Henry Gannett. Of particular interest is a file containing recommendations made by the Board of Surveys and Maps regarding adoption of the Harriman Geographic Code System for the indexing of maps. These papers appear to have been collected by Claude H. Birdseye.

295. RECORDS CONCERNING COLORADO RIVER EXPEDITIONS. ca. 1917-29, 1938. 1 ft.

Arranged by subject. A list of file titles is part of the records.

Chiefly diaries, magazine excerpts, newspaper clippings, reports, press releases, lists of supplies, and other records concerning Claude H. Birdseye's survey of the Grand Canyon in 1923. Also contains reports, copies of articles, and clippings concerning other Colorado River expeditions; printed brochures and other records relating to Hoover Dam and national parks; and reports, on post cards addressed to the Director of the USGS, made by Amos Burg during his Colorado River trip in 1938.

The early records and annotations to the records were added later by a member of the Division staff.

296. CORRESPONDENCE OF OFFICIALS IN CHARGE OF FIELD SURVEYS. 1918-49. 5 ft.

Arranged alphabetically by surname of official. A list of folder headings appears as Appendix 19 in this inventory. To aid researchers the field-office location of each individual as determined from the file contents is shown on the list. Some individuals were seasonal field personnel before becoming supervisors.

Included are letters received and copies of letters sent, instructions on the conduct of field work, reports on projects, memorandums, telegrams, completed forms showing allotments and balances of funds, annotated quadrangle maps, and photographs.

The records concern the funding and administration of cooperative-mapping projects, including the status of projects and proposed projects; cooperation with Federal, State, territorial, and municipal agencies, particularly the Land Classification Branch, National Park Service, Tennessee Valley Authority, and Public Works Administration;

field-office operations and personnel matters; discussions about types of field equipment; the disposition of field notes, computation books, photographs, and other records created in the course of projects; corrections to quadrangle maps; map symbols and colors; and evaluation of aerial-photographic methods.

This series is particularly valuable for information regarding the establishment of a photogrammetric unit in the USGS [Pendleton file].

297. REPORTS CONCERNING FOREST SERVICE MAPPING PROJECTS. 1934-38. 2 in.

Arranged by national forest as follows: Bitterroot and Nez Perce, Cabinet and Flathead, Cibola, Crook, Gila, Humboldt, Kaniksú and Coeur d'Alene, Lassen, Lincoln, Lolo, and Santa Fe.

Narrative reports, some with maps and photographs, of topographic surveys within selected areas of national forests. The positions of some personnel employed on the surveys were funded by various programs for emergency relief. The surveys were done by personnel of the Maps and Surveys Section of the Forest Service. Of interest is a report titled "Summary of the Field Activities of the Maps and Surveys Section of the Branch of Engineering of the Forest Service, Region 5."

298. SPECIAL MAGAZINE FILE. 1947-53. 4 in.

Arranged alphabetically by name of magazine, publisher, titles of articles, or surname of author.

Correspondence, copies of manuscripts, memorandums, copies of addresses and speeches, and USGS circulars. Chiefly concerning approval of technical articles written by Topographic Division staff members that were intended for publication in magazines and professional journals, and papers to be presented at professional meetings. There are also draft chapters for agency manuals.

The subjects of the papers include photogrammetry and aerial mapping, development of mapping techniques, equipment used for aerial mapping, the uses of topographic mapping to aid in river development and highway construction. There are a few papers by individuals not employed by the USGS.

299. PUBLICATIONS RELATING TO TOPOGRAPHIC SURVEYS AND MAPPING. 1920-55. 56 items. [NWCS, maps and plans]

Copies of circulars, bulletins, instructions, and other publications relating to topographic surveys and the preparation of topographic maps. Of particular interest are items titled USGS Administrative Publication, "The Preparation of Illustrations for Reports of the United States Geological Survey, with [a] Brief Description of Processes of Reproduction," (John L. Ridgway, 1920); USGS Bulletin 788-E, "Topographic Instructions of the United States: E. Topographic Mapping," (William M. Beaman, 1929); and USGS Circular 101, "Surveying and Mapping in Alaska," (Gerald A. FitzGerald, 1951).

Original illustrations relating to the Ridgway administrative publication are described in entry 114.

300. TOPOGRAPHIC MAP SPECIFICATION SHEETS. ca. 1955-70. 1.5 ft.

Arranged alphabetically by State or Possession and thereunder alphabetically by project name.

Completed "Specification Sheet for Mapping Project" forms. Information blocks include the project name, State, project number, area, aerial photography, quadrangles, controls, compilation, finishing, and remarks. Not all the blocks are completed on all the forms.

301. RECORDS CONCERNING "THE NATIONAL ATLAS OF THE UNITED STATES." 1954-71. 7 in.

Arranged by subject, and thereunder chronologically.

Correspondence, memorandums, copies of authorizations, reports, newspaper clippings, press releases, and publications relating to the formulation, development, and publication of the National Atlas. Also includes the minutes of meetings and reports of the National Academy of Sciences' Committee on the National Atlas, 1954-61; and photographic prints of the Atlas project's staff, the completed Atlas, and the presentation of the Atlas to the Secretary of Interior, Rogers C. B. Morton.

The USGS began the National Atlas project in 1962, but had to suspend operations in July 1963 because of reductions in the Department of the Interior's appropriations. Refunded in 1965, the project continued under the guidance of Arch C. Gerlach until the Atlas was published in 1970. William B. Overstreet succeeded Gerlach as director of the project in 1967.

302. "THE NATIONAL ATLAS OF THE UNITED STATES". 1970. 1 vol. and 63 items. [NWCS, maps and plans]

A bound copy of "The National Atlas of the United States," accompanied by supplemental sheets and overlays.

303. UNNUMBERED AND MISCELLANEOUS REPORTS. 1971-82. 4 items. [NWCS, maps and plans]

This series consists of the following items: a metric coordinate reader, with explanatory text; a bound booklet titled "Progress Report on the Cartographic Activities of the United States, January 1, 1977-December 31, 1981," (for presentation to the XIV Pan American Consultation on Cartography in Santiago, Chile, March 22-April 3, 1982); a copy of *Landsat Data Users NOTES*, Issue No. 21, January 1982; and 7 maps concerning the "Terrain Analysis of the Lunar Equatorial Belt," (preliminary report, July 1, 1964).

Records concerning Cooperation, 1926-49

304. RECORDS CONCERNING COOPERATIVE-MAPPING PROJECTS. 1926-49. 6 ft.

Arranged by project, geographic area, State agency, and other subjects. A list of file titles appears as Appendix 20 in this inventory.

Correspondence, memorandums, reports, instructions, map and instrument specifications, telegrams, annotated maps, tracings, congressional documents, invitation and bid forms, allotment statements and other fiscal records, agreements, and photographs.

The records chiefly concern mapping projects undertaken in cooperation with municipalities, counties, State agencies, Army Corps of Engineers, Bureau of Indian Affairs, National Park Service, Forest Service, Department of Justice, Federal Power Commission, and units of the USGS. Some of the projects were funded with emergency-relief appropriations.

Most of the files are marked 212 and may have once been part of a larger file.

305. RECORDS CONCERNING JOSEPH HYDE PRATT. 1938-41. 2 in.

Arranged in rough chronological order.

Chiefly correspondence and reports relating to Pratt's efforts, as an Engineer Consultant with the Division, to formulate a policy of cooperation between the USGS and State governments to plan, fund, and administer topographic-mapping programs.

306. RECORDS CONCERNING THE CONFERENCES ON INTER-AMERICAN RELATIONS IN THE FIELD OF EDUCATION. 1939. 4 in.

Arranged by type of record.

Reports, speeches, lists of participants, program notes, and other records concerning the four conferences held in October and November 1939. Claude H. Birdseye attended the conferences.

Records concerning Aerial Photography and Mapping, 1925-83

307. RECORDS CONCERNING AERIAL MAPPING. 1927-48. 6 ft.

Arranged by Federal agency, private company, USGS organizational unit, geographic area, or other subjects. A list of file titles appears as Appendix 21 in this inventory.

Correspondence, memorandums, annotated plats and index maps, reports, fiscal records, invitation and bid forms, contracts, photographs, and specifications for photographic equipment and prints.

The records concern mapping programs undertaken in cooperation with, and based on aerial prints furnished by, the military air services, Soil Conservation Service, Forest Service, and other Federal agencies. One folder contains records dating from 1920 documenting the acquisition of aerial photographs from the Army Air Service [later the Army Air Corps]. An act of March 4, 1929 (45 Stat. L., 1595-1596) authorized the USGS to enter into contracts with private companies for aerial photographs. Many records also relate to the design, testing, and operation of aerial-photographic equipment, and concurrent developments in the methods and process of compiling maps from aerial prints.

Many of the files are marked 211 and may have once formed part of a larger file.

308. RECORDS RELATING TO THE AMERICAN SOCIETY OF PHOTOGRAMMETRY. 1925, 1938-41. 5 in.

Arranged by meeting or subject.

Minutes of meetings, programs, correspondence, memorandums, photographs of meetings, drafts of papers, articles, and other printed material concerning photographic instruments and techniques, and related records relating to the annual, semiannual, and Board of Direction meetings of the American Society of Photogrammetry. Also includes records concerning the work of several of the Society's committees and other subjects. Most of the records date from 1938-40.

Claude H. Birdseye served as President of the Society and on several of its committees.

309. MAPS CONCERNING AERIAL PHOTOGRAPHY IN THE UNITED STATES. 1938, 1947-72. 25 items. [NWCS, aerial photography]

Color-coded index maps showing the areas photographed by government and commercial firms, 1947-72. The 1938 map shows areas photographed by certain types of single-lens and multiple-lens cameras, and quadruple cameras. The maps are accompanied by processed explanatory statements issued by the USGS's Map Information Office that list the government agencies and commercial firms that maintain collections of aerial photographs, address the uses of index maps of photographs, discuss the availability of aerial photographs, and mention the principal types of photography obtained and used by photographers.

310. INDEXES FOR AERIAL PHOTOGRAPHY. ca. 1935-43. approx. 770 items. [NWCS, aerial photography]

Arranged in three sets - original negatives, 8 in. x 10 in. prints, and 20 in. x 24 in. prints, and thereunder within each set alphabetically by project symbol.

Indexes to aerial-photography projects principally for areas in Arkansas, California, Kansas, Kentucky, Maine, Massachusetts, Michigan, Missouri, New Hampshire, New Mexico, New York, Oregon, Rhode Island, Texas, Vermont, and Wisconsin. Most of the indexes are at scales of 1:20,000, 1:27,000, and 1:43,000.

311. AERIAL PHOTOGRAPHY. ca. 1935-43. 186 film cans. [NWCS, aerial photography]

Arranged on rollfilm by symbol and roll number. A film-can locator is available in the research room. There are also 105-mm positive aerial indexes arranged by entry number as found in Special List 25, "Aerial Records in the National Archives."

The series related to aerial photography projects principally for areas in Arkansas, California, Kansas, Kentucky, Maine, Massachusetts, Michigan, Missouri, New Hampshire, New Mexico, New York, Oregon, Rhode Island, Texas, Vermont, and Wisconsin. Most of the photography was done at 1:20,000, 1:27,000, and 1:43,000.

312. MAPS SHOWING THE STATUS OF AERIAL PHOTOGRAPHY OF ALASKA. 1946-47. 4 items. [NWCS, maps and plans]

Maps showing the status of vertical and trimetrogon aerial photography of Alaska.

313. STATUS OF AERIAL MOSAICS OF THE UNITED STATES. 1947-73. 7 items. [NWCS, maps and plans]

Color-coded index maps of the United States showing areas for which aerial mosaics have been compiled by or for government agencies or commercial firms. The 1967 and 1973 maps include insets for Alaska, Hawaii, Puerto Rico, and the Virgin Islands.

314. COLOR-IMAGE PHOTOMAP QUADRANGLE MAPS OF UNITED STATES BOUNDARIES AND PORTS OF ENTRY. 1977-83. approx. 250 items. [NWCS, maps and plans]

All the maps are at 1:25,000. The series does not include any maps showing the Alaska-Canadian boundary.

*Records concerning Triangulation, Control, and Computing, 1882-1973*

315. TRIANGULATION RECORD BOOKS. ca. 1882-1906. 2 ft. 17 vols.

The first 11 volumes are arranged by subject or geographic area: Appalachian Party, New Mexico, Meridian Lines, Indian Territory (2 vols.), Montana, Black Hills, Atlantic, New York and Maine, Rocky Mountains, and Pacific. The remaining six volumes, which provide nationwide coverage, are arranged by assigned number. Each volume has an alphabetical index to triangulation stations.

The volumes were compiled from field notes and other primary sources. The entries include the geodetic location of triangulation stations, primary triangulation and primary traverse computations, and other observations. The data furnished control for topographic quadrangle maps. The Meridian Lines volume also includes a few drawings showing the location of the stations and ground marks, relative to nearby structures and natural features, that control the meridian line.

The Pacific Triangulation Book includes notes on sites in Alaska and observations made by the "Wheeler Survey."

316. MICROFILM COPIES OF TOPOGRAPHIC SURVEY FIELD COMPUTATION NOTEBOOKS. 1882-1963. approx. 3750 microfilm rolls. [NWCS, maps and plans]

Arranged in two sets - 35-mm microfilm and 16-mm microfilm. The 35-mm microfilm is arranged numerically by microfilm roll numbers from 1 to 3658, assigned after the microfilm was accessioned by the National Archives, with gaps and additional numbers containing A and B suffixes. Roll numbers from 3594-3598 were used twice. There is a microfilmed list (on roll 3598) of the notebooks copied on rolls 1-1988, covering the period 1882-1947. The list shows, for each notebook, the microfilm number, book number, State, type of survey, observer, and year. No list has been found for the remainder of the rolls. The 16-mm microfilm is arranged by microfilm-roll numbers from C505 to C604, assigned by the USGS. The numbers appearing on the 16-mm microfilm rolls, from C505 to C604, continue one of the 35-mm microfilm lots previously accessioned by the National Archives.

Microfilm copies of topographic-survey notebooks containing field data and office computations relating to triangulation, transit traverse, and leveling. There are notebooks for Haiti (rolls 1960-1966) and Antarctica (roll 3593). Each microfilm roll covers several notebooks, not necessarily concerning the same area or recorded by the same surveyor. The microfilming was done by the USGS in lots with a separate sequence of roll numbers assigned to each lot. An index in the custody of the USGS may refer to the original roll numbers.

The contents of many of the rolls of microfilm deal with vertical and horizontal control are duplicated on the microfiche described in entry 317.

317. MICROFICHE COPIES OF HORIZONTAL AND VERTICAL CONTROL NOTEBOOKS. ca. 1947-73. 35 binders. [NWCS, maps and plans]

Arranged in two sets - horizontal-control notebooks and vertical-control notebooks, and thereunder by notebook number from AH-1 to AH-1319a (binders 1 to 8) and AV-1 to AV-1675c (binders 1 to 14). Chiefly transit traverse and electronic-traverse records. Each notebook is labeled with the State, project (sometimes), quadrangle, type of record, name of observer, and the year the record was made.

Many of the notebooks were also reproduced on the microfilm described in entry 316.

318. STATUS OF VERTICAL AND HORIZONTAL CONTROL IN THE UNITED STATES. 1948, 1952.  
3 items. [NWCS, maps and plans]

Two sets of color-coded index maps (1st edition, 1948; 2d edition, 1952) showing the status of vertical control (levels) and horizontal control (triangulation and transit traverse) as reported by the USGS, Coast and Geodetic Survey, and other Federal agencies.

Records concerning Emergency Relief Activities, 1933-43

319. RECORDS CONCERNING PUBLIC WORKS TOPOGRAPHIC SURVEY PROJECTS. 1933-41. 10 in.

Arranged by subject.

Chiefly copies of rules and regulations, Executive orders, operating procedures and other processed issuances, memorandums, and correspondence concerning project planning, cooperative programs, appropriations and expenditures, status of projects, employment, and related subjects. The series also contains completed forms--"Project Report for Planning of Federal Construction and Repairs" (one set for each State including Alaska, Puerto Rico, and Washington, D.C.)--that outline a 6-year national mapping program (1938-43).

The projects were funded initially by the Emergency Relief Appropriation Act of April 8, 1935 (49 Stat. L., 115).

320. RECORDS CONCERNING TEMPORARY APPOINTMENTS. 1933-40. 5 in.

Arranged by name of appointee in two alphabetical sequences: one for appointees in South Carolina, and the second for all other appointees.

Copies of notifications of appointment, efficiency reports by supervisors, and internal memorandums concerning appointments and temporary personnel. The central office and field positions were funded by emergency-relief appropriations.

321. WEEKLY REPORTS CONCERNING TEMPORARY APPOINTMENTS. 1933-43. 5 in.

Arranged chronologically.

Tabular reports concerning changes in the number of appointments to temporary positions with the Division that were funded by the Public Works Administration.

*General Manuscript Cartographic Records, 1853-1990*

322. MANUSCRIPT QUADRANGLE MAPS. ca. 1889-1945. approx. 62,000 items. [NWCS, maps and plans]

Arranged alphabetically by name of quadrangle.

Included are planetable sheets, metal mounts, annotated advance sheets, and corrected published quadrangle maps, often with the name of the editor and date of changes. Some of the manuscript maps are labeled "original drawing."

323. MANUSCRIPT UNITED STATES BASE MAPS. ca. 1899-1914. approx. 80 items. [NWCS, maps and plans]

Contour and shaded-relief planetable sheets and tracings. Some are signed by William O. Tufts.

324. MANUSCRIPT STATE BASE MAPS. ca. 1902-24. approx. 60 items. [NWCS, maps and plans]

Arranged in two sets - numbered maps and maps arranged alphabetically by State.

The series consists of planetable sheets and tracings drawn to show drainage areas, contour intervals, and shaded relief. Some of the manuscripts were done by Gilbert Thompson and John H. Renshaw.

325. BOUNDARY INFORMATION MAP FILES. ca. 1853, 1889-1914. approx 180 items. [NWCS, maps and plans]

Most of the maps are in bound sets. Areas covered are the international boundary between the United States and Canada from the Strait of Georgia to the Atlantic Ocean, the international boundary between the United States and Canada from Cape Muzon to Mount St. Elias, and the international boundary between the United States and Mexico. Also included is a copy of a map based on surveys made by Capt. William H. Emory in 1853 of the boundary between the United States and Mexico, accompanied by several loose maps showing that same boundary area dated 1889-1914.

326. TRIANGULATION-CONTROL PLANETABLE SHEETS. ca. 1887-1929. approx. 1150 items. (NWCS, maps and plans)

Arranged numerically from 1 to 1144.

Many of the sheets are metal mounts. Some of the sheets are annotated with the quadrangle name, scale, name of compiling topographer, and date.

327. PLANETABLE SHEETS OF COUNTY SURVEYS. 1888, 1906-21. approx 280 items. [NWCS, maps and plans]

Arranged by State, not alphabetically, and thereunder by county.

The series consists of planetable sheets and tracings for counties in the States of Alabama, Florida, Georgia, Hawaii, Louisiana, Mississippi, North Carolina, Pennsylvania, South Carolina, Texas, and Virginia. Many of the

sheets for counties in the southeastern United States, Mississippi, and Texas were compiled as part of soil surveys. The 1888 sheets are for areas in Texas.

328. PLANETABLE SHEETS OF THE CUSTER BATTLEFIELD NATIONAL CEMETERY. ca. 1891. 2 items. [NWCS, maps and plans]

The maps show the location of the cemetery and the approximate positions of troop commands at the Battle of the Little Big Horn in Montana Territory in 1876.

329. MISCELLANEOUS PLANETABLE SHEETS. 1896-1921. 44 items. [NWCS, maps and plans]

The records consist of 16 sheets showing a survey of Oahu Island, Hawaii, by the Army Corps of Engineers in 1913; 4 sheets of the Idaho National Forest, ca. 1921; 6 undated and untitled sheets showing parts of Clallam and Jefferson Counties, Washington; and 18 sheets showing primary traverses in Tennessee, 1896.

330. PLANETABLE SHEETS OF MINING DISTRICTS. ca. 1907-8. 50 items. [NWCS, maps and plans]

The records concern the Virgilina Copper District in Virginia and North Carolina, and the Gold Hill Mining District in North Carolina.

331. PLANETABLE SHEETS OF THE VIRGILINA [NORTH CAROLINA-VIRGINIA] SPECIAL SHEET. 1908-9. 24 items. [NWCS, maps and plans]

The scale is 1:24,000

332. SURVEYS OF MILITARY FORTS. ca. 1911-18. 90 items. [NWCS, maps and plans]

Included are planetable sheets showing surveys of Mulberry Island, Virginia (part of Camp Abraham Eustis), and Camp Bragg, North Carolina; a blueprint map of Fort Monroe, Virginia, and vicinity; manuscript sheets showing Fort Hancock, Georgia; an annotated published map of the Fort Omaha Balloon Field; and five envelopes containing completed printed note sheets that record information about the location and condition of wagon bridges, railway stations, railway bridges, roads, and aviation fields in the vicinity of Fort Omaha.

333. MAPS OF THE IDAHO-MONTANA BOUNDARY. n.d. 7 items. [NWCS, maps and plans]

Six manuscript maps and one tracing showing the entire boundary.

334. MOUNTED MANUSCRIPT CONTOUR MAPS OF THE WASHINGTON-IDAHO BOUNDARY LINE. ca. 1911. 1 item. [NWCS, maps and plans]

The map was published as part of USGS Bulletin 466, "Retracement of the Boundary Line Between Idaho and Washington from the junction of Snake and Clearwater Rivers Northward to the International Boundary" (by Robert B. Marshall, 1911).

335. MANUSCRIPT CONTOUR MAPS OF PYRAMID LAKE AND VICINITY, NEVADA. ca. 1912.  
33 items. [NWCS, maps and plans]

336. METAL-MOUNT RELIEF MAPS. ca. 1913-23. 15 items. [NWCS, maps and plans]

Colored relief maps of the following areas - Lock Haven, Pennsylvania, San Francisco, California, Cleveland to New York City, the District of Columbia with portions of adjacent Virginia and Maryland, New York City and vicinity, Rocky Mountain National Park, Seven Devils, Idaho, Grand Canyon National Park, Glacier Peak National Park, Mesa Verde National Park, Mount Rainier National Park, and Yosemite National Park. Some of the maps are labeled J[ohn]. H. Renshaw and some are dated.

337. SHADED-RELIEF METAL BASE MAPS. ca. 1914-25. 13 items. [NWCS, maps and plans]

Included are maps of Yellowstone National Park; Kentucky, New Mexico, New York and Long Island, central North Carolina, Ohio, and West Virginia; and irrigated areas in northern California.

338. MANUSCRIPT CONTOUR MAP OF BENNETTS WELL, CALIFORNIA. n.d. 2 items. [NWCS, maps and plans]

The map's scale is 1:40,000 and it is accompanied by a photographic overlay.

339. METAL-MOUNT FIELD SHEETS. ca. 1942-57. 231 bundles. [NWCS, maps and plans]

Each bundle is labeled with the State and thereunder the areas or quadrangle names of the enclosed sheets.

340. PHOTOGRAMMETRIC COMPILATION SHEETS. ca. 1942-54. approx. 6,000 items. [NWCS, maps and plans]

Arranged by State and thereunder by sheet title.

Each sheet is stamped with a task record showing dates and names of individuals making corrections, control checks, stereocomputations, and related operations. Sheets for Puerto Rico and the Virgin Islands are at the end of the series.

341. ANNOTATED QUADRANGLE MAPS. ca. 1976-90. approx. 15,000 items. [NWCS, maps and plans]

Arranged in sets by State.

Published 7.5-minute topographic quadrangle maps annotated with names of geographic features; historic sites and ruins; ponds, lakes, reservoirs, dams, ditches, and canals; towns and schools; and other subjects. The annotated maps were used in the Phase II compilation of the National Geographic Names Data Base.

The series includes annotated maps for Washington, D.C., American Samoa, Guam, and the Virgin Islands.

General Published Cartographic Records, 1865-1995

342. SPECIAL TOPOGRAPHIC MAP SERIES. 1865, 1886-1983. approx. 930 items. (NWCS, maps and plans)

Arranged alphabetically by subject or map title. Oversized maps are filed separately. See appendix 22 in this inventory for a list of the series contents.

Included are shaded-relief, panoramic, and land-classification maps. Areas covered included those administered by the National Park Service, mining districts, national forests, cities and counties, military camps and forts, experimental farms, naval petroleum reserves, and prison sites. The 1865 item is a map of Yosemite Valley; a notation on the map states that it was drawn by "J[ames]. T. G[ardiner]."

Most special topographic maps relating to Alaska and Hawaii are in separate series.

343. MICROFILM COPY OF HISTORIC REFERENCE FILE OF TOPOGRAPHIC QUADRANGLE MAPS. 1884-1977. 260 rolls. [NWCS, maps and plans]

The 35-mm microfilm is arranged in two sets: maps dated 1884-1972 are on rolls 1 to 193, and maps dated 1973-77 are on rolls 194 to 260. Notes filed with the microfilm indicate that the National Cartographic Information Center has computer-sorted catalogs designed to be used with this microfilm.

344. "ATLAS OF MASSACHUSETTS." 1884-90. 1 vol. [NWCS, maps and plans]

A bound set of maps at 1:62,500 plus an index map compiled by the USGS in cooperation with the Topographical Survey Commission of the Commonwealth of Massachusetts. A cover page states that the set consists of 54 maps. Only 50 maps were found at the time this inventory was compiled.

345. "TOPOGRAPHIC ATLAS OF THE UNITED STATES: PHYSIOGRAPHIC TYPES." 1900. 1 vol. [NWCS, maps and plans]

A set of folio maps and descriptive text, compiled by Henry Gannett, describing a coast swamp, a graded river, an overloaded stream, appalachian ridges, ozark ridges, ozark plateaus, hogbacks, volcanic peaks, plateaus and necks, alluvial cones, and a crater. The map scales vary.

346. "PHYSICAL GEOGRAPHY OF THE TEXAS REGION." 1900. 1 vol. [NWCS, maps and plans]

The maps, compiled by Robert T. Hill, are part of a series - "Topographic Atlas of the United States." The maps are preceded by descriptive text. The atlas contains illustrations of topographic forms, types of mountains, plains and scarps, rivers and canyons; and a map of Texas and adjacent Territories.

347. PROGRESS MAPS. 1888, 1917, 1934. 4 items. [NWCS, maps and plans]

Arranged as described below.

A negative photostatic copy of an index map showing the areas covered by aerial mapping in southwestern Louisiana in 1934; a color-coded map, dated 1888, of the United States showing locations of topographic surveys of interior areas and the coastline, triangulation work done by the USGS and the U.S. Coast and Geodetic Survey (USC&GS), and the location of astronomic stations for the USGS and the USC&GS; an index map, dated 1917, showing areas covered by topographic mapping (including insets for Alaska and the Sacramento and San Joaquin Valleys of California) west of the 97th Meridian; and a second index map, dated 1917, showing topographic and geologic surveys in that part of the United States lying east of the 97th Meridian.

348. "LAND FORMS OF THE UNITED STATES." ca. 1891. 14 items. [NWCS, maps and plans]

A stapled 14-page set of sample quadrangle maps showing landforms designated as: youth, maturity, old age, rejuvenated region, young volcanic mountain, moraines, drumlins, river flood plains, a fiord coast, and barrier-beach coast. The contour intervals vary from map to map. Four pages of explanatory text precede the maps.

349. MAP SHOWING AREAS TRAVERSED BY THE DEATH VALLEY EXPEDITION. 1892. 1 item. [NWCS, maps and plans]

A printed map showing parts of California, Nevada, Arizona, and Utah traversed by a Division of Economic Ornithology and Mammalogy (later the Bureau of Biological Survey) party under the direction, successively, of Theodore S. Palmer and C. Hart Merriam in 1891. The map, which shows captioned topographic features, was compiled by Charles H. Fitch, a topographer with the USGS.

350. MAPS OF THE UNITED STATES. 1899. 2 items. [NWCS, maps and plans]

A relief map and a contour map of the continental United States compiled by Henry Gannett. Both are September 1899 reprints of the edition of December 1896.

351. PUBLISHED STATE MAPS. 1889-1990. approx. 840 items. [NWCS, maps and plans]

Arranged alphabetically by State. Oversized maps are filed separately.

Topographic, relief, geologic, and index maps. Some of the maps are in sections. There are maps dated before 1900 for Connecticut, Massachusetts, and Oklahoma (Indian Territory). About one-third of the maps are oversized. There are maps for Tutuila Island and the Manua Islands, American Samoa, at the end of the oversized segment.

352. PUBLISHED COUNTY TOPOGRAPHIC MAPS. 1902-95. approx. 540 items. [NWCS, maps and plans]

Arranged alphabetically by State, Arkansas, California, Colorado, Connecticut, Illinois, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, New Mexico, Ohio, Pennsylvania, Utah, Virginia, Washington, Wisconsin, and West Virginia, and thereunder by county.

Most of the maps are at 1:50,000 and 1:100,000. The earliest maps are Jefferson County, Kentucky, 1912; Topography of Election Districts, Maryland, 1902; and Muskingum County, Ohio, 1912.

There are also oversized maps for counties in the States of California, Connecticut, Pennsylvania, and Virginia.

353. MAP OF CADDO COUNTY, OKLAHOMA. 1903. 2 items. [NWCS, maps and plans]

A topographic map in two sections showing locations of lands reserved for various school purposes, locations of lands reserved for various Indian purposes, and locations of proposed and completed bridges.

354. PUBLISHED METROPOLITAN AREA MAPS. 1885-1974. approx. 170 items. [NWCS, maps and plans]

Arranged alphabetically. The oversized maps are filed separately.

Included are aerial maps and topographic-atlas sheets. There are maps dated before 1904 for Boston, Pittsburgh, New York, St. Louis, and Washington, D.C. Some of the maps were compiled by city agencies. A few of the maps are in sections. Almost half of this series consists of oversized maps.

355. MAPS SHOWING MAJOR PHYSIOGRAPHIC PROVINCES AND REGIONS OF THE UNITED STATES. 1916-46. 4 items. [NWCS, maps and plans]

Printed maps showing physiographic divisions (1919, 1946) and provinces (1916, 1941) of the United States. Division and province outlines and names were suggested by the Association of American Geographers.

356. "MAP OF MILITARY ACTIVITIES." 1918. 1 item. [NWCS, maps and plans]

A printed map of the contiguous United States showing military department boundaries and locations of military installations, including posts, depots, hospitals, schools, aviation fields, and chemical-warfare sites. The map was compiled by "A[cheson] F. Hassan, Captain, Engineers."

357. "SPECIAL REPRINT OF THE CITY PORTION OF THE MAP OF WASHINGTON, D.C., AND VICINITY." 1918. 1 item. [NWCS, maps and plans]

A map bearing printed annotations chiefly showing the locations of Federal and District government agencies; but also labeling recreation fields, parks, and municipal bathing pools; headquarters of service organizations; steamboat wharves; electric-railroad stations; and other sites. The map was part of a brochure that was produced for the Conference on the Limitation of Armaments, November 11, 1921. A copy of the brochure is with the records described in entry 114.

358. TOPOGRAPHIC MAPS OF THE REPUBLIC OF HAITI AND THE DOMINICAN REPUBLIC. ca. 1919-20. 25 items. [NWCS, maps and plans]

Arranged by county and thereunder by geographic area or quadrangle.

The series consists of printed maps in Spanish (Dominican Republic) and French (Haiti).

359. STATUS OF TOPOGRAPHIC MAPPING AND INDEX OF QUADRANGLE MAPS. 1922-78. 1 vol. and 40 items. [NWCS, maps and plans]

Arranged in rough alphabetical order by State. Some States are grouped together regionally.

Included are maps concerning the status of orthophotoquad, topographic, and intermediate mapping; a bound set of topographic-quadrangle-map indexes (1937); index maps and 7.5 sheets, for the San Joaquin Valley, California, 1914; and a map titled "Status of Topographic Mapping in the United States," accompanied by a handwritten note stating that "this map shows defense zone as described by War Department, September 2, 1942."

360. PLANNING MAPS. ca. 1934. 2 items. [NWCS, maps and plans]

Two base maps titled "Administrative Planning Map of the United States," undated, and "Proposed Plan for Completion of Topographic Mapping of the United States," 1934. Both maps show 15-minute-quadrangle subdivisions and include inserts for Alaska, Hawaii, the Philippine Islands, the Canal Zone, Puerto Rico, and the Virgin Islands.

361. PUBLISHED MAPS OF THE UNITED STATES. ca. 1890-1987. approx. 150 items. [NWCS, maps and plans]

The series includes base, outline, relief, and contour maps at scales from 1:10,000,000 to 1:2,500,000. Also included are a map of the southeastern United States prepared for the Tennessee Valley Authority (1:1,000,000), and a map showing the physical divisions of the United States (1:7,000,000).

Many of the maps in this series are oversized. Included among the oversized maps is a relief map by John H. Renshaw dated 1920 (1:3,168,000).

362. MAPS OF AREAS ADMINISTERED BY THE NATIONAL PARK SERVICE. 1939-93. 12 items. [NWCS, maps and plans]

Topographic and relief maps of national parks, a national monument, and a national recreation area.

363. "MOUNT HOOD AND VICINITY, OREGON-WASHINGTON." 1984. 1 item. [NWCS, maps and plans]

A contour map at 1:100,000.

364. MAP SHOWING THE NATIONAL WILDERNESS RESERVATION SYSTEM. 1987. 2 items. [NWCS, maps and plans]

Two copies of a map of the United States showing areas designated as part of the National Wilderness Reservation System. A map of Alaska is on the reverse.

365. MAP OF ISLE ROYALE NATIONAL PARK, MICHIGAN. 1987. 1 item. [NWCS, maps and plans]

The scale is 1:62,500. This map is oversized.

366. MAP OF THE NATIONAL WILD AND SCENIC RIVER SYSTEM. 1990. 1 item. [NWCS, maps and plans]

A map of the United States showing segments of rivers classified as wild, scenic, or recreational. On the reverse is a map of Alaska.

367. PUBLISHED MAP OF INDIAN LAND AREAS. 1992. 1 item. [NWCS, maps and plans]

The map shows the boundaries of Federal Indian Reservations, locations of State reservations, and boundaries of Alaskan Regional Corporations.

368. "SPECIAL DEDICATION ISSUE, VIENNA QUADRANGLE, VIRGINIA." July 12, 1974. 1 item. [NWCS, maps and plans]

A 7.5-minute topographic map bordered by photographs illustrating USGS mission areas.

369. INDEXES TO PUBLISHED QUADRANGLE MAPS. ca. 1911-89. 890 items. [NWCS, maps and plans]

Arranged in three sets - new editions, old editions, and folded indexes, and thereunder in alphabetical order by State within each set.

The new edition indexes, labeled "current" on the drawers, are dated about 1976 to 1989 and include indexes for Antarctica and the United States. The old edition indexes are dated about 1916 to 1979 and include indexes for Antarctica, Puerto Rico, the Virgin Islands, and the United States. The folded indexes, in the last drawer, are dated about 1916 to 1982, and also include indexes for Antarctica.

370. PUBLISHED INTERNATIONAL MAP OF THE WORLD TOPOGRAPHIC SHEETS. 1912-76. 110 items. [NWCS, maps and plans]

Arranged alphabetically by name of sheet.

Many of the maps bear the statement "this map follows the sheet lines and numbering system of the International Map of the World, but does not conform to the specifications for the series in all respects." Indexes to topographic maps of the United States published at 1:1,000,000 are in the first drawer.

371. INDEXES TO TOPOGRAPHIC AND OTHER MAPS. ca. 1980-95. 119 items. [NWCS, maps and plans]

Arranged alphabetically by State. These maps are folded and stored in boxes. State map lists are at the end of the series.

372. PUBLISHED 1:250,000-SCALE QUADRANGLE MAPS. ca. 1889-1989. approx. 2000 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by name of quadrangle.

373. PUBLISHED 1:250,000-SCALE QUADRANGLE MAPS OF CANADA. ca. 1954-66. 12 items. [NWCS, maps and plans]

Arranged alphabetically by sheet name.

374. PUBLISHED 1:125,000-SCALE QUADRANGLE MAPS. ca. 1886-1949. approx. 2100 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder by name of quadrangle.

375. PUBLISHED 1:100,000-SCALE QUADRANGLE MAPS. ca. 1974-94. approx. 2000 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder by name of quadrangle.

376. PUBLISHED 1:63,360-SCALE QUADRANGLE MAPS OF ALASKA. ca. 1948-94. approx. 2800 items. [NWCS, maps and plans]

Arranged alphabetically by quadrangle name.

377. PUBLISHED 1:62,500-SCALE QUADRANGLE MAPS. ca. 1888-1967. approx. 15,000 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by quadrangle name.

378. PUBLISHED 1:48,000-SCALE QUADRANGLE MAPS. ca. 1906-50. approx. 40 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by quadrangle name.

This series includes 1 oversized item.

379. PUBLISHED 1:31,680-SCALE QUADRANGLE MAPS. ca. 1908-49. approx. 1825 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by quadrangle name.

380. PUBLISHED 1:24,000-SCALE QUADRANGLE MAPS. ca. 1908-94. approx. 102,000 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by quadrangle name.

Most of the maps date from about 1930. Some of the maps are provisional editions.

381. PUBLISHED 1:24,000-SCALE QUADRANGLE MAPS OF GUAM AND THE VIRGIN ISLANDS. 1954-82. 40 items. [NWCS, maps and plans]

Arranged by island group and thereunder alphabetically by quadrangle name.

382. OVERSIZED PUBLISHED 1:24,000-SCALE QUADRANGLE MAPS. 1949-92. 17 items. [NWCS, maps and plans]

Arranged as follows - Juneau and vicinity, Alaska; Del Mar, Imperial Beach, Imperial Beach-Baja California Norte (experimental edition), La Jolla, and Oxnard, California; Wilson, Florida; and Mentor, Ohio.

383. PUBLISHED 1:25,000-METRIC-SCALE QUADRANGLE MAPS. ca. 1978-93. approx. 260 items. [NWCS, maps and plans]

Arranged alphabetically by State and thereunder alphabetically by quadrangle name.

The States covered in the series are - Alaska, California, Hawaii, Massachusetts, Michigan, Nevada, New Hampshire, New York, Rhode Island, South Dakota, Vermont, and Washington.

384. TOPOGRAPHIC AND RELIEF MAPS OF HAWAII. ca. 1910-57. 22 items. [NWCS, maps and plans]

All the maps are at 1:62,500. Some of the editions were reprinted at a later date.

385. TOPOGRAPHIC QUADRANGLE MAPS OF SOUTH CAROLINA. 1918-19. 34 items. [NWCS, maps and plans]

All the maps are at 1:21,120. A few are reprints of the editions of 1918 and 1919.

386. TOPOGRAPHIC MAPS OF PUERTO RICO. 1935-82. 377 items. [NWCS, maps and plans]

Arranged roughly by scale and thereunder alphabetically by name of quadrangle.

387. TOPOGRAPHIC MAP OF THE ISLAND OF GUAM. 1953. 1 item. [NWCS, maps and plans]

The map is at 1:62,500.

388. TOPOGRAPHIC MAPS OF AMERICAN SAMOA. 1963. 3 items. [NWCS, maps and plans]

The maps show Tutuila and Manua Islands at 1:24,000.

389. MAP OF THE "TRUST TERRITORY OF THE PACIFIC ISLANDS." 1973. 1 item. [NWCS, maps and plans]

The map is at 1:4,000,000. There are insets for islands, island groups, and atolls.

390. STATUS OF TOPOGRAPHIC MAPPING OUTSIDE THE CONTINENTAL UNITED STATES. 1957. 3 items. [NWCS, maps and plans]

The areas shown are Alaska, Hawaii, Wake, Midway, American Samoa, Guam, the Canal Zone, Puerto Rico, and the Virgin Islands.

391. MAPS OF ANTARCTICA. ca. 1956-93. 174 items. [NWCS, maps and plans]

A series of reconnaissance maps, dated 1959-88, at 1:250,000, forms the largest part of this series. There is also a set of maps, dated 1956-60, at 1:500,000, showing the Australian and African quadrants of Antarctica. Other items consist of topographic maps, satellite-image maps, and photomaps.

392. ANTARCTIC SKETCH MAPS. ca. 1960-67. 35 items. [NWCS, maps and plans]

The scale is 1:500,000. The maps were compiled in cooperation with the National Science Foundation in support of scientific activities of the U.S. Antarctic Research Program.

393. SATELLITE-IMAGE MAPS. 1972-94. 57 items. [NWCS, maps and plans]

The regular sized maps are arranged as follows: Pakistan, ca. 1992; Antarctica, 1973-92; and the United States, 1972-94. The last group includes maps showing the conterminous United States, vegetation types, biodiversity management status, Central United States earthquakes, 1974-91, and Bay Area earthquakes, 1972-89. The oversized maps, which are filed separately, show McMurdo Dry Valleys, Antarctica; the Washington D.C. area; and a satellite-image mosaic map of Florida

Some of the maps were produced with an experimental-printing technique that consisted of a silver-ink overprint of feature names.

394. RADAR IMAGE MAPS OF UGASHIK, ALASKA. 1980. 12 items. [NWCS, maps and plans]

Consisting of radar-image, radar-image-mosaic, and radar-stereo maps, and maps done under contract using "Synthetic Aperture Radar Imagery (SAR System)."

395. RECORDS CONCERNING AND USING MAP PROJECTIONS. 1982-94. 2 volumes and 1 item. [NWCS, maps and plans]

The records consist of two volumes - "Ground Water Atlas of the United States," labeled as segment 7, Idaho, Oregon, and Washington, part of Hydrologic Investigations Atlas 730-H (1994), and "Louisiana Barrier Island Erosion Study: Atlas of Sea-Floor Changes from 1878 to 1989" (1994); and a sheet illustrating "The Properties and Uses of Selected Map Projections," dated 1982.

396. LAND-USE AND LAND-USE COVER MAPS. 1969-83. approx. 230 items. [NWCS, maps and plans]

Arranged numerically from L-1 to L-203. An index accompanies the maps.

The maps show urban or built-up land, agricultural land, rangeland, forest land, water, wetland, barren land, tundra, and perennial snow and ice. Some of the maps are folded.

397. VEGETATION AND LAND-COVER MAPS. 1987. 7 items. [NWCS, maps and plans]

The maps are numbered from L-205 to L-211. These maps are folded.

398. RECORDS RELATING TO DIGITAL-CARTOGRAPHIC DATA FILES. 1985-87. 3 vols. [NWCS, maps and plans]

The volumes are titled "Digital Line Graphs from 1:1,000,000-Scale Maps," and "Digital Line Graphs from 1:2,000,000-Scale Maps."

399. SPECIAL-PROJECTS MAPS. ca. 1994. 2 items. [NWCS, maps and plans]

The series consists of a color-coded map, titled "Ground Shaking in San Francisco," showing the relative shaking hazard to buildings of varying heights built on different rock types; and a map titled "Alaska National Interest Lands, Conservation Act, December 2, 1980, P.L. 96-487," that shows boundaries of areas administered as part of the National Wildlife Refuge System, National Park System, Bureau of Land Management System, National Wild and Scenic Rivers System, and National Forest System.

General Photographs, ca. 1880-1900

400. JOSEPH HENRY WHEAT ALBUM OF MISCELLANEOUS VIEWS. ca. 1880-1900. 1 album, 1.5 in.

Arranged by NARA-assigned number. This is series MA (NWCS, still pictures).

Mounted photographs that vary in size from 8 in. x 6 in. to 10 in. x 13 in., and chiefly showing streams, farms, cities, and towns; a few depict industrial infrastructure in North Carolina and Tennessee. Also included are views of sites in Yellowstone National Park. A few of the photographs are captioned and dated.

A few of the photographs are duplicated in series PS (entry 87).

The photographs were collected by Joseph H. Wheat, a topographer with the USGS, and given to Claude H. Birdseye, USGS Chief Topographic Engineer (1919-29), for the agency's permanent files.

The photographic records described in entries 401 to 403 concern Robert B. Stanton's survey of the Colorado River in 1889 and 1890. Stanton, acting Chief Engineer of the Denver, Colorado Canyon, and Pacific Railroad, conducted a survey of the Colorado River for the purpose of establishing a railway route from coal fields in Colorado to the Pacific Coast. Many of the photographs were entered as Exhibit No. 176 in the case of the United States vs. Utah (284 US 534). An original copy of the diary Stanton compiled during the trip is in the New York Public Library. It contains some information about the locations where some of the photographs were taken. Many original photographic items from the "Stanton Survey" were donated to the USGS for Claude H. Birdseye's use in planning an expedition down the Grand Canyon in 1923. The records described in entry 295 concern Birdseye's survey of the Colorado River.

401. GLASS NEGATIVES. 1889-90. 11 items. 1 in.

Arranged by NARA-assigned number. This is series RSA (NWCS, still pictures).

Copies of lithographic views (8 in. x 10 in.) of the Colorado River, a copy of a sketch showing the steamboat *U.S. Explorer* (Ives Expedition, 1857-58), and portraits of John Hislop, Assistant Engineer, and Frank M. Brown, President of the Denver, Colorado Canyon, and Pacific Railroad Company.

402. PAPER NEGATIVES AND CORRESPONDING CONTACT PRINTS. 1889-90. 2 in.

Arranged by record format and thereunder by NARA-assigned number. The images are not captioned or dated. This is series RSB (NWCS, still pictures).

The images show views of the Colorado and Green Rivers, natural rock formations, and members of the survey party on the trail and in camp.

403. PHOTOGRAPHIC PRINTS AND CORRESPONDING ORIGINAL NEGATIVES. 1889-90. 7 albums and negatives. 3 ft.

Arranged by record format and thereunder by agency assigned number. Some prints have captions. This is series RS (NWCS, still pictures).

Mounted 7.5 in. x 5.5 in. prints showing the Colorado and Green Rivers, El Dorado Canyon, the Cottonwood and Mojave Valleys, natural rock formations, plant and animal life, members of the survey party, camp sites, the Daniel Bonelli family, Fort Mojave, Arizona, U.S. Cavalry troopers, and Indians.

The photographs were taken by Stanton and Franklin A. Nims.

General Motion Pictures, 1947-74

404. MOTION-PICTURE FILMS RELATING TO TOPOGRAPHY AND MAPPING. 1947-74. 16 reels.

Arranged by item number. The film is in the custody of NWCS, motion pictures.

The fifteen films are titled: *Mapping the Earth's Surface* (1969); *Earth Resources, Mission 73; The Tellurometer, A Microwave System of Precise Distance Measurement; Topographical Mapping by Photogrammetric Methods* [2 films carry this title]; *Negative Scribing for Map Reproduction, A Training Film; Precise Leveling for Topographic Mapping; An Introduction to Photo Interpretation for the Discovery and Evaluation of Natural Resources; Preparation of Topographic Manuscripts for Reproduction, A Training Film* (ca. 1951); *Supplemental Control for Topographic Mapping, A Training Film* (ca. 1952); *Transit Traverse for Topographic Mapping, A Training Film* (ca. 1950); *Leveling for Topographic Mapping, A Training Film* (ca. 1950); *Triangulation for Topographic Mapping, A Training Film*; *What on Earth, #5 Maps for Man* (1974); and *Global Concepts in Maps* (1947). When determined the copyright date appears in parenthesis after the film title. All the films are in color and include a sound track. The first film is on two reels. The remaining films are one reel each.

*Records of the Plans and Coordination Branch, 1942-60*

The Plans and Coordination Division (later Branch) was established as a staff unit in the Topographic Branch as part of a reorganization in 1946. The Branch was composed of four sections - Map Information Office, Estimates and Plans, Production Control, and Liaison and Coordination. The Branch had general responsibility for budget estimates, planning for mapping programs, production schedules, liaison with Federal and State officials on mapping matters, and coordination of operations with the Topographic Branch.

405. ADMINISTRATIVE FILES. 1942-60. 8 ft.

Arranged by subject, and thereunder in rough chronological order. Similar subject headings appear in several places. Most of the files are clamped together. Oversize items and bound reports are inserted between the files. A list of file titles appears as Appendix 23 in this inventory.

Letters sent, letters received, memorandums, narrative and statistical reports, budget justifications and other fiscal records, transcripts of meetings and conferences, press and radio releases, contract and bid forms, regulations, technical memos of instruction, departmental orders, personnel bulletins and other administrative issuances, maps, and congressional documents.

The records concern cooperation with other units of the USGS, departmental committees, and Federal agencies, and States; coordination and management of USGS mapping projects; and allocation of resources for long-term and special projects.

*Records concerning the National Cartographic Information Center, 1934-78*

In 1919 Executive Order 3206 created the Federal Board of Surveys and Maps, composed of one representative each of 14 Federal Agencies and commissions, to coordinate the making of maps, standardize results, and avoid unnecessary duplication of work. The Board was instructed to create a central information office in the USGS to collect, classify, and furnish to the public information concerning all map and survey data available from Federal and other sources. The Topographic Division established a Map Information Office (MIO) to conduct these operations. Four other Federal agencies and 23 nonfederal organizations were added to the Board before it was abolished in 1942 by Executive Order 9094 and most of its functions transferred to the Bureau of the Budget. In 1945 the Branch reorganized the MIO to continue the central-information function. In 1974, the National Cartographic Information Center succeeded the MIO and continued to act as an interagency center to facilitate access to the cartographic holdings of Federal, State, and county government agencies, and those of private organizations.

406. RECORDS CONCERNING NATIONAL MAPPING PLANS. 1934-36. 5 in.

Arranged by subject.

Correspondence, minutes of meetings of the Federal Board of Surveys and Maps and its Special Committee on Map Planning (1934), memorandums, press releases and other processed issuances, magazine and newspaper clippings, questionnaires to and responses from Federal and State agencies and professional organizations regarding current mapping projects and anticipated mapping needs, draft reports of the Special Committee, and other records concerning national mapping programs.

Most of the records concern the Special Committee on Map Planning (1934), which formulated a 10-year national mapping plan; the Special Committee on the National Mapping Plan of 1936, established pursuant to Senate Resolution 281, 74th Congress, to prepare a revision of the 1934 national mapping plan; the Pendleton Plan; and a mapping program sponsored by the American Engineering Council.

Claude H. Birdseye, as Chief of the Division (1919-29), represented the USGS on the Federal Board of Surveys and Maps, and served as Chairman of the 1934 and 1936 Special Committees.

407. *THE NATIONAL CARTOGRAPHIC INFORMATION CENTER NEWSLETTER*, 1975-78. 11 items.  
[NWCS, maps and plans]

The newsletter is a technical publication intended to inform the cartographic community about the activities of the National Cartographic Information Center.

## Water Resources Division, 1888-1996

In 1906 the USGS changed the name of its Hydrographic Branch to the Water Resources Branch. The Branch continued to be supervised by a Chief Hydrographer, who administered three major divisions--Hydrographic, Hydrologic, and Hydro-Economic. In 1907 the Hydrographic Division became the Surface Water Division, the eastern and western sections of the Hydrologic Division were merged as the Ground Water Division, and the Hydro-Economic Division was renamed the Quality of Water Division. Under these names the three divisions conducted thereafter the major long-term work of the Branch. Between 1913 and 1963 the Water Resources Branch was led by a Chief Hydraulic Engineer. In 1963 the title was changed to Chief Hydrologist. The Branch was renamed a Division in 1949 and its divisions became branches.

Other functions were given organizational-unit status within the Water Resources Branch. After the passage of an act of February 19, 1909 (35 Stat. L., 639), to provide for enlarged homesteads, and an act of December 29, 1916 (39 Stat. L., 862), to provide for stock-raising homesteads, Branch personnel made field classifications of areas of the public lands that were or might be applied for under the laws and reported their findings to the USGS Land Classification Board. In 1925 the Water Resources Branch's Division of Land Classification Investigations, the Land Classification Branch (restyled in 1922), and the mineral-leasing and related regulatory functions received from the Bureau of Mines were joined to form the Conservation Branch.

The establishment and functions of the Divisions of Power Resources and Water Utilization are described with the records of those units.

In 1948 the Water Resources Branch was reorganized. The Water Utilization Division was renamed the Technical Control Division and a Program Control Division was established as a second staff unit to handle increased administrative demands in the Central Office. The Program Control Division included Interagency, Field Relations, and Fiscal Control Sections.

The growth of separate field organizations for each of the operating Branches in the Water Resources Division prompted the creation of Water Resources Councils in 1949. The Councils, established in all States or geographic regions where they linked two or more district offices, coordinated the Division's field programs and facilitated the cooperative programs with States and local agencies. In the mid-1960's the Division's local offices in each State were consolidated into single Division-type districts.

The Division underwent extensive reorganizations in the 1950's and 1960's. In 1956 the Offices of Assistant Chief Hydrological Engineers for Program and Development and for Operations, Regional Hydrologists for the Pacific Coast, Rocky Mountain, Mid-Atlantic, and Atlantic Coast areas, and six administrative and research Sections in the Central Office that included Foreign Hydrology (founded in 1952) and Radiohydrology (founded in 1947) were established or modified. The Technical Coordination Branch was renamed the General Hydrology Branch. From 1967 the Chief Hydrologist was aided by three Assistant Chiefs--Administration and Technical Services (later Operations), Reports and Data Processing (later Scientific Publications and Data Management), and Research and Technical Coordination. This reorganization terminated the Branches of General Hydrology and Program Control; their functions passed to the Research and Technical Coordination Office, which retained administrative control of the Branches of Surface Water, Ground Water, and Quality of Water, and the Offices of Remote Sensing and Radiohydrology. The Foreign Hydrology Section was renamed the Office of International Activities; the Section, the Office of Water Data Coordination (created in 1965), and the Regional Hydrologists reported to the Chief Hydrologist. Reorganizations of the Division in the 1980's and 1990's added to the number and modified the responsibilities and titles of the Assistant Chief Hydrologists.

Entry 508 lists the three published volumes and the three completed but unpublished volumes in "A History of the Water Resources Division, U. S. Geological Survey" that cover the years to 1966.

The Irrigation Survey (also known as the Powell Irrigation Survey) was established in the USGS under the provisions of an act of October 2, 1888 (25 Stat. L., 526). The act was passed "for the purpose of investigating the extent to which the arid region of the United States can be redeemed by irrigation, and the segregation of the irrigable lands in such arid region, and for the selection of sites for reservoirs and other hydraulic works necessary for the storage and utilization of water for irrigation and the prevention of floods and overflows, and make the necessary maps . . . the work to be performed by the Geological Survey under the direction of the Secretary of the Interior." The Irrigation Survey was organized with two major units: a Topographic Survey, led by Almon H. Thompson, to prepare maps of areas under investigation; and a Hydraulic Survey, led by Clarence E. Dutton, to gage streams and identify suitable sites for irrigation systems, and to design dams, canals and other necessary structures. The Irrigation Survey undertook a systematic program of streamflow measurement. On August 30, 1890 (26 Stat. L., 391), Congress repealed that portion of the act of 1888 that created the Irrigation Survey. After 1890 some limited stream-gaging work continued, and ground-water studies began, respectively, in the USGS Topographic and Geologic Branches.

On August 18, 1894 (28 Stat. L., 398), Congress appropriated funds specifically "For gauging the streams and determining the water supply of the United States, including the investigation of underground currents and artesian wells in arid and semiarid regions." To conduct the work a Hydrographic Division, led by Frederick H. Newell, a veteran of the Irrigation Survey, was formed in the Topographic Branch. The new unit was transferred to the Geologic Branch in 1895. Cooperative hydrographic surveys with the States began in 1895; co-funded work dates from 1900. Following the passage of the Reclamation Act on June 17, 1902 (32 Stat. L., 388), the Hydrographic Division was made a Branch equivalent to the other major line units of the USGS, with Newell as its Chief Hydrographer. In 1903 the Branch contained a Division of Hydrography for stream-gaging activities, a Division of Hydrology for ground-water investigations, Division of Hydro-Economics for analyses of water quality and economic potential, and the Reclamation Service. Director Walcott led the Reclamation Service, established in 1902, and Newell served as its Chief Engineer. In 1906 Newell left the Hydrographic Branch to spend more time with the newly independent Reclamation Service. Walcott hired Marshall O. Leighton as Chief Hydrographer and his Branch was renamed the Water Resources Branch. On March 9, 1907, the Reclamation Service, led by Newell, was separated from the USGS and established as an Interior Department agency; the Service was renamed the Bureau of Reclamation in 1923.

408. RECORDS CONCERNING FIELD OPERATIONS. 1889-90. 3 in.

Arranged chronologically.

Correspondence, reports, telegrams, newspaper clippings, graphs, and charts concerning surface-water studies in the arid regions west of the 100th meridian. Specific records include: "A Report on Fieldwork in Bear River Valley, 1889," by USGS hydrographer Robert Robertson, which includes a sketch map of the Cache Valley, and a draft "Report on the Irrigation of the Espanola Valley, 1889," also by Robertson; correspondence and reports received by Clarence E. Dutton from Robertson regarding his irrigation studies in the Utah and Arkansas Divisions; correspondence between Frederick H. Newell, Hydraulic Engineer in charge of the Rio Grande Division, and hydrographer Harold M. Dyar, including Dyar's report on stream gaging in the Rio Grande Division; correspondence relating to precipitation studies received by Newell from climatologist George E. Curtis, including a statistical summary of the yearly precipitation in Colorado, 1884-1889; and a progress report from Newell outlining the hydrographic work completed in Montana, Colorado, New Mexico, and Texas in June 1890.

Of particular significance is John W. Powell's report that outlines his principles and policies regarding irrigation, and his analysis of attitudes and events, from 1867 to about 1890, that influenced the development of United States water policy.

409. REPORTS ON IRRIGATION. 1893-98. 5 in.

Arranged by author's name, and thereunder chronologically.

Reports, which include correspondence, statistical summaries, diagrams, sketches, maps, published reports, and newspaper clippings, relating to irrigation studies in Nebraska, Oregon, and Idaho. Included are the reports of William P. Trowbridge, a USGS topographer, concerning irrigation studies in Oregon and Idaho in 1893, and a report by Charles P. Ross, a civil engineer and Chairman of the Nebraska Commission of the National Irrigation Congress, concerning his measurements in 1894-95 of the North Platte River in Nebraska. The majority of the reports (1894-98) were written or compiled by Oscar V. P. Stout, a Professor of Civil Engineering at the University of Nebraska, and relate to the water supply in Nebraska. Specific reports discuss the gaging of Nebraska streams and measurements of water-well heights, particularly across the Platte River Valley at Kearney, Nebraska.

410. DISBURSEMENT LEDGERS. Nov. 1888 - Dec. 1889. 1 in. 2 vols.

Arranged in two chronological periods. The first ledger covers the period November 30, 1888 to June 30, 1889; the second ledger, July 1 to December 30, 1889. The entries in each ledger are arranged by administrative unit, and thereunder chronologically.

Individual entries give the date, voucher number, the amount, to whom paid, and disbursement classification. Entries are classified as: instruments, services, supplies, subsistence, field expenses, hired transportation, travel, bonded railroads, and stock. These classifications are explained in the front of the first ledger. Both ledgers include entries for supplemental allotments and summary accounts. The corresponding vouchers have not been found.

411. JOURNALS OF EXPENDITURES OF THE HYDROGRAPHIC DIVISION (IRRIGATION DIVISION). Aug. 1894 - May 1899. 2 in. 4 vols.

Arranged for the most part chronologically. Entries for August to December 1894 are arranged by State, and thereunder chronologically.

Individual entries give the date, to whom paid, purpose of expenditure, and amount. Beginning with the second volume (July 1896), a register number is also included. These registers have not been found. Beginning with the third volume (August 1897), a voucher number is given. The corresponding vouchers have not been found.

*General Records, 1907-96*

412. GENERAL CORRESPONDENCE FILES. 1907-53. 22 ft.

Arranged alphabetically by subject. A list of file titles appears as Appendix 24 in this inventory.

Correspondence, reports, memorandums, bulletins, circulars, directions, requisitions, vouchers, copies of contracts, copies of rules and regulations, copies of court decisions, automobile-accident forms, legislation, press releases, newspaper clippings, articles, publications, pamphlets, statistical summaries, graphs, charts, plats, and other records regarding the administration, policies, programs, and operations of the Water Resources Division. Of particular interest are the reports documenting the investigations of the water resources of California, also called the "Marshall Plan"; 1921, the Red River Basin, 1948-53 (in the Canadian Government file); the quality of water in Forestville and Suitland, Maryland and McLean, Virginia, 1919 (in the Investigations file); and a proposal to construct hydroelectric facilities below Great Falls and the Potomac River, 1921 (in the Levering Correspondence file). The file concerning the Southwest Drought of 1951 contains compiled tables showing precipitation, runoff, ground- and surface-water measurements, and reservoir contents. Other records, such as the collection of statements from District Engineers in response to the question "Why Continuous Stream Gaging?" in 1928, show the development of Division policy.

These records also show the cooperation of the Division with other USGS units, other Federal agencies, especially the Bureau of Indian Affairs, Fish and Wildlife Service, National Park Service, Bureau of Reclamation, War Department, Weather Bureau, States, municipalities, independent bodies, such as the Tennessee Valley Authority and the National Research Council, and foreign countries. Also included are correspondence, reports, memorandums, agendas, minutes, speeches, seminar papers, conference papers, published reports, press releases, attendance lists, and other records regarding the Division's participation in meetings, seminars and conferences.

Interspersed are photographic prints, including those of various Division exhibits at fairs and expositions, equipment, and an illustrated report on the water supply in Shenandoah National Park in 1935 (in the National Park Service file).

413. "CONFIDENTIAL CORRESPONDENCE." 1922-35, 1942-49. 10 in.

Arranged chronologically.

Correspondence, memorandums, and reports deemed confidential by the Chief of the Division that concern personnel problems, theoretical or technical disagreements between staff members, internal and external complaints regarding the Division's work or staff members, and questions about cooperative agreements and funding.

Responses were usually prepared by the Chief Hydraulic Engineer, the Assistant Chief, or other staff members with specialized knowledge of the problem area. Of particular interest are a collection of reports written by the Division's district engineers outlining stream gaging completed in 1925 in cooperation with the Bureau of Indian Affairs.

414. CENTRAL CLASSIFIED FILES. 1945-76. 137 ft.

Arranged in two subseries and thereunder according to a subject-numeric classification, the same as that used for the central classified files of the Office of the Director (entry 52). The primary subject headings are Accounting, Budget, Buildings and Grounds, Committees, Communication, Computation, Contracts (2nd subseries), Cooperation,

Councils (1st subseries), Education, Equipment and Supplies, Forms, Information, Inventions, Investigations, Land, Legal, Map Distribution, Map Production, Mapping Techniques, Meetings, National Defense, Organization and Management, Paleontology and Stratigraphy (1st subseries), Personnel, Programs and Plans, Public Relations, Publications, Records, Reports and Statistics, Reproductions, Research, Security (2nd subseries), Sedimentation and Erosion (2nd subseries), Topographic Surveys (2nd subseries), Transportation, Travel, Vehicles, Water (General), Water (Ground - 2nd subseries), Water Quality, and Water (Surface). Most of the records date from 1953 to 1972.

Correspondence, memorandums, directives, reports, issuances, circulars, bulletins, press releases, publications, pamphlets, requisitions, vouchers, copies of contracts, copies of rules and regulations, statistical charts and summaries, graphs, plats, diagrams, and other records regarding the administration, policies and programs of the Water Resources Division. These records also show cooperation with other USGS units, other Federal agencies, especially the Department of the Army, the Atomic Energy Commission, the Bureau of Reclamation, and independent bodies, such as the Tennessee Valley Authority and the National Science Foundation. Includes agendas, minutes, and other records regarding the Division's participation on regional, international, and interagency boards and committees. Also contains catalogs and price lists relating to equipment and supplies, copies of applications and diagrams regarding inventions, copies of contracts of easement for access to land, personnel requests for action, drafts of articles and reports submitted for publication, and photographic prints of USGS offices and labs, and other subjects.

Of particular interest is a collection of membership reports, compiled in 1963, that give the name of committees on which the Division was represented, the basis for establishing the committees, their purpose and type, conditions for their meetings and reports, and the committees' termination dates (in the Committee, Membership Reports file - 1st subseries).

#### 415. CIRCULAR LETTER FILE. 1918-53. 7 ft.

Arranged alphabetically by subject. A list of file headings appears as Appendix 25 in this inventory. The records contain an index that outlines the subject classification of the circulars.

Circulars and memorandums prepared by the Water Resources Division or received from other USGS units, the Office of the President, the Office of the Secretary of the Interior, and other Federal agencies that were intended to guide the Division's policies and programs. Also contains bulletins, pamphlets, booklets, correspondence, copies of forms, reports, publications, statistical summaries, plats, and photographs that accompany the circulars.

#### 416. ADMINISTRATIVE ORDERS, CIRCULARS, AND MEMORANDUMS. 1915-55. 6 ft.

Arranged in two segments and thereunder alphabetically by name of office, title of official, subject or type of record. A list of file title headings appears as Appendix 26 in this inventory.

The first segment (white and green folder labels) contains administrative issuances and memorandums from the Secretary of the Interior and other departmental officials. The second segment, and bulk of the series (yellow folder labels), contains administrative issuances and memorandums from the Director, Division and Branch Chiefs, and Chief Clerks. Also included are correspondence, budget summaries, copies of legislation and congressional documents, copies of forms, reports, minutes of meetings, conference papers, newspaper clippings, lists of contracts, statistical charts, vouchers, maps, and photographs.

The records concern the organization and management of the Water Resources Division, particularly administrative procedures, budget and payroll, fair employment practices, employee assignments, travel, and publications; intraagency and interdepartmental committees, cooperation with other Federal agencies and State governments; Alaska investigations; the Columbus Development Laboratory; and tax exemptions for some oil companies.

417. RECORDS REGARDING CONTRACTS. 1939-56. 5 ft.

Arranged alphabetically by city, frequently the city where the documents were filed (the duty station of the Division official) rather than the city receiving the contract. The series also contains a file for Alaska, filed in alphabetical sequence, and files for other subjects located at the end of the series: Thetford, Vermont; University of Alabama; Miscellaneous (Washington, D.C. and Virginia); and Miscellaneous (statistical data for 1940 regarding gaging stations).

Contracts, certificates of award, bid and acceptance forms, copies of leases, correspondence, memorandums, statistical summaries, and specification outlines regarding new or renewed contracts by the Water Resources Division for service, equipment, leased space, and rights-of-way through private property. Occasionally, the contracts are accompanied by purchase orders, rate charts, copies of forms, pamphlets, advertising bulletins, plats, diagrams, and photographic prints.

418. RECORDS RELATING TO THE PRESIDENT'S WATER-RESOURCES POLICY COMMISSION. 1950. 3 in.

Arranged by river basin - Ohio, Tennessee, Connecticut, Alabama, Delaware, and Potomac - or subject.

Chiefly reports and statements prepared by the Eastern Field Committee, State water boards and commissions, and the Water Resources Division and submitted to the Commission for use in its reports "A Water Policy for the American People" and "Ten Rivers in America's Future." The series also includes correspondence and memorandums.

419. RECORDS CONCERNING THE TOPOGRAPHIC NEEDS OF THE WATER RESOURCES DIVISION. 1950-56. 10 in.

Arranged by subject or type of record: Topographic Needs; Summary of Topographic Mapping Procedures; a group of files arranged alphabetically by State or Territory; Division Report, March 1954; and index cards.

Memorandums, recommendation reports, justification reports, priority lists, circulars, statistical summaries, and maps regarding the Division's need for topographic maps. Also included are topographic-map indexes for each State that delineate the mapping status of the quadrangles in the States; two sets of topographic-map indexes for the United States, one that outlines published maps and the other quadrangle names; published-map lists and bulletins; a reprinted article on Federal surveys and maps; a paper presented to the Public Documents Committee of the American Library Association about the USGS Map Information Office and a set of 3 in. x 5 in cards recording water studies that were scheduled or in progress.

420. OFFICE FILES OF GLENN LANE PARKER. 1930-49. 5 in.

Arranged alphabetically by subject.

Correspondence, memorandums, reports, legislation, publications, statistical tables, maps, and photographic prints relating to water-resources investigations, particularly those of the Gila River, the Colorado River, and the Fontana Dam Project of the Tennessee Valley Authority; and a "Report of Referee" concerning litigation to divert ground water found in the Raymond Basin in California. Also includes agendas, minutes, and circulars regarding the Munitions Board Water Committee and records relating to internal personnel problems.

Of particular interest is a memorandum by John C. Hoyt, dated September 13, 1934, regarding the development and use of water-stage recorders by the USGS.

Parker served as Chief Hydraulic Engineer of the Division from 1939 to 1945.

421. OFFICE FILES OF CARL GUSTAVE PAULSEN. 1946-60. 10 in.

Arranged alphabetically by subject.

Correspondence, memorandums, copies of speeches, conference papers, programs, and other records relating primarily to addresses written and delivered by Carl G. Paulsen, Chief Hydraulic Engineer of the Division from 1946 to 1957. Of particular interest is the file relating to the celebration of the USGS 75th Anniversary in 1954. There are also reports, press releases, agenda, minutes, and statistical summaries relating to Paulsen's role as the USGS representative between 1951 and 1959 on a number of boards and committees, which included the Columbia River Engineering Board, and the Interior Department's Special Board for Reviewing Principles for Exchange of Water and Power between the United States and Canada.

For records relating to Paulsen's tenure as Chairman of the Arkansas River Compact Administration, 1957-60, see the records described in entry 486.

422. OFFICE FILES OF LUNA BERGERE LEOPOLD. 1960-65. 10 in.

Arranged alphabetically by subject.

Correspondence, memorandums, progress reports, legislation, resolutions, press releases, copies of newspaper clippings, agendas, speeches, attendance lists, published bulletins and reports, directories, statistical summaries, and other records relating to Luna B. Leopold's participation on the American Meteorological Society's Committee on Water Resources, 1961 to 1965, and his chairing of the Water Task Force of the Potomac Project in 1965. Also includes records regarding research proposals.

Leopold served as Chief Hydraulic Engineer from 1957 to 1963, when the position title was changed to Chief Hydrologist. He continued as Chief Hydrologist until 1966.

423. BRANCH NEWSLETTERS. 1918-25. 10 in. 8 vols.

Arranged by month, and thereunder by district office.

Copies of monthly Branch newsletters, which contain narrative reports, statistical tables and summaries, reprinted correspondence, lists of applications before Federal Power Commission, copies of congressional bills concerning appropriations and allotments, and photographic prints. Also included are reports on Branch projects in the districts and Washington office, personnel matters; status of reports and publications, and other subjects of interest to Branch employees.

424. OPEN-FILE REPORTS AND WATER-RESOURCES INVESTIGATIONS REPORTS (WRIR). 1972-96.  
Approx. 200 cu. ft.

Arranged alphabetically by State, thereunder by type of report, and thereunder roughly by report number.

Printed and processed reports concerning water-resource management plans, water-quality assessments, flood investigations, chemical composition of rain samples, ground-water flow, wells and springs, and related subjects.

At the time this inventory was compiled this series had not been processed and reboxed by the National Archives staff.

For related maps see the records described in entries 137 and 555.

*Fiscal Records, 1897-1912*

425. JOURNAL OF EXPENSES OF THE HYDROGRAPHIC DIVISION. May 1897 - Feb. 1904. 7 in. 7 vols.

Arranged for the most part chronologically, with a few disbursements arranged by subject.

Individual entries give the date, to whom paid, purpose of expenditure, voucher number, and amount. After April 1, 1901, the voucher and ledger numbers are excluded for the most part and the volume title changes to "Gaging Streams." The corresponding vouchers and ledgers have not been found. The volume for the period March 23, 1903, to February 23, 1904, includes a list of staff members of the Division of Hydrology's Eastern Section.

426. LEDGER OF STREAM-GAGING EXPENSES. July 1902 - Dec. 1903. 2 in. 1 vol.

Arranged by name of payee or subject, and thereunder chronologically. An incomplete index, arranged alphabetically by name, is in the front of the volume.

Individual entries give the date, to whom paid, purpose of expenditure, amount, and (what may be a) register number. The corresponding registers have not been found.

427. OPERATIONS LEDGER. July 1901 - July 1905. 1 in. 1 vol.

Arranged by category as follows: New York, Maine, New York City, Office of Indian Affairs, North Carolina, Nevada, Forestry, and Oklahoma Territory.

Individual entries give the date of daily disbursements, to whom paid, purpose of expenditure, and amount that relates to daily disbursements. Many of the disbursements concern expenses incurred in the examination of forest reserves and the revenues obtained from the sale of town lots in Oklahoma Territory. Also included are a memorandum attached to a page in the Forestry section that outlines the duties and authorizations of the field officials participating in forestry examinations, and a letter of April 16, 1903, from Frederick H. Newell to Mrs. Jennie T. Davis (a statistical expert with the Division of Hydrography), regarding the condition of the account for the examination of forest reserves.

428. DISBURSEMENT LEDGER. July 1903 - Feb. 1905. 2 in. 1 vol.

Arranged by State, administrative unit of the Hydrographic Division, or name of payee, and thereunder chronologically. An index, arranged alphabetically, is in the front of the volume.

Individual entries give the date, to whom paid, purpose of expenditure, amount, and (what may be) register and voucher numbers relating to administrative expenditures of the Hydrographic Division. The corresponding registers and vouchers have not been found. Inside the front cover is a statement of account from Herbert M. Wilson, dated March 12, 1904.

429. DISBURSEMENT LEDGER FOR STREAM GAGING. July 1904 - June 1906. 3 in. 2 vols.

Arranged by payee, State, region, or administrative unit, and thereunder chronologically. An index, arranged alphabetically, is in the front of each volume.

Individual entries in Volume I (Fiscal Year 1905) give the date, to whom paid, purpose of expenditure, date span of expenditure, amount, and (what may be) voucher and register numbers. Attached to the inside front cover is a list summarizing allotments and expenditures for the States, regions and offices. Page 221 contains a letter and a list of expenses, dated August 17, 1905, from Grove K. Gilbert to Frederick H. Newell regarding Gilbert's expenditures for fiscal year 1905. Individual entries for Volume II (Fiscal Year 1906) give the date, charge-sheet number, voucher number, to whom paid, by whom paid, amount, and purpose of expenditure. The corresponding vouchers, registers, and charge sheets have not been found.

430. APPROPRIATIONS LEDGER. July 1907 - June 1908. 2 in. 1 vol.

Arranged by appropriation account, and thereunder chronologically. An index, arranged alphabetically by subject, State, and agency is in the front of the volume.

Individual entries give the date, to whom paid, purpose of expenditure, amount, and monthly total balance for such accounts as river measurement, ground water, quality of water, debris investigation, and land drainage and cooperative work with State and Federal agencies. Individual entries for transportation requests give (what may be) a voucher number, date, charge sheet number, to whom paid, place of departure, destination, method of travel, amount, and account charged. The corresponding vouchers and charge sheets have not been found.

431. DISBURSEMENT LEDGERS FOR STREAM-GAGING APPROPRIATIONS. July 1907 - June 1910. 5 in. 3 vols.

Arranged by appropriation account, and thereunder chronologically. Indexes, arranged alphabetically by subject, State, district, and agency, are in the front of Volumes II and III.

Individual entries give the date, to whom paid, voucher number, amount, balance, and monthly balance for such accounts as river measurements, ground-water and debris investigations, and cooperative work with the States and on the Moqui and Navajo Reservations. Each volume is for a fiscal year. Correspondence, memorandums, and quarterly statements, regarding transfer of funds, credits, debits, adjustments to accounts, and recommendations, are in the front of Volumes II and III. Volume III also has loose papers appended to the ledger pages throughout the volume showing expenditures for fiscal year 1911.

432. APPROPRIATIONS LEDGER. July 1911 - Sept. 1912. 2 in. 1 vol.

Arranged by account name.

Individual entries give the date, to whom paid, voucher number, charge sheet number, transfer of expenditures, direct expenditures, total expenditures, and monthly credit and disbursement summaries for water-resources activities in certain States and regions and the Territory of Hawaii. Included are accounts for stream gaging, pumping investigations, chemistry of underground water, cooperation with States and Federal agencies, and administrative costs. Correspondence and financial statements from Thomas G. Gerdine to John H. Lewis regarding the transfer of vouchers and expenditures of the Deschutes River investigation are inserted in the volume.

Administrative Records, 1908-63

433. CORRESPONDENCE CONCERNING DISTRICT ENGINEERS AND OTHER DIVISION EMPLOYEES. 1908-57. 31 ft.

Arranged alphabetically by surname. A list of file titles appears as Appendix 27 in the inventory.

Correspondence and memorandums relating to personnel matters, such as appointments, leave, transfers, military service, recommendations, and retirement. These files appear to have been maintained as an informal personnel file by the Division. Most of the files concern district engineers, hydraulic engineers, and geologists. There are also files for aids, administrative staff, and consultants.

Also included are circulars, investigative reports, conference papers, publications, newspaper clippings, copies of legislation, statistical charts, plats, diagrams, photographs, and other records relating to Division programs including water-power and irrigation development, artesian wells, swamp lands, flood investigations and prediction, and stream gaging, including joint international gaging stations along the United States-Canadian border; well-drilling machinery and methods, current meters, and water-stage recorders; and land entries under the Cary Act, Enlarged Homestead Act, and Stock-Raising Homestead Act. The records also document Division cooperation with the States and other Federal agencies, particularly the Bureau of Reclamation, Forest Service, National Park Service, Bureau of Indian Affairs, Weather Bureau, and Federal Power Commission.

Of particular interest is a report done for the Electric Bond and Share Company, titled "The Utilization of the Boundary Waters of Northern Minnesota," by H. N. Sullivan, Consulting Engineer, Los Angeles, CAECA, 1927. Ralf R. Woolley asked that the report be retained in the Division's files. It was placed in his file.

The records include files for three Division employees who, as of 1938, held dual appointments with State agencies: Max H. Carson (Hawaii), Lynn Crandall (Idaho), and Joseph J. Dirzulaitis (Virginia). The dual-employment status of these employees was approved, in accordance with Executive Order 7796, by the Secretary of the Interior on March 10, 1938.

Most of the records are dated 1911-46.

434. RECORDS CONCERNING THE DISTRICT AND FIELD OFFICES OF THE SURFACE WATER BRANCH. 1916-51. 12 ft.

Arranged for the most part alphabetically by district or field office, and thereunder chronologically. Alaska materials appear in alphabetical sequence. The first two files are general files apparently maintained in the office of the Chief of the Surface Water Branch.

Chiefly correspondence and memorandums to and from the district engineers, but also includes reports, press releases, newspaper clippings, statistical summaries, plats, graphs, and other records regarding the administration, operations, and projects of the district and field offices of the Surface Water Branch. Included is information on allotments and estimates for field activities, the compilation and submission of field data, the status of stream-gaging and river-survey projects, personnel and payroll matters, and cooperation with other Federal agencies, States, and municipalities.

The majority of the records date from 1944. Files with records dated before 1944 are: Asheville, 1930, Baton Rouge, 1929, Bismarck, 1931, Columbia, S.C., 1940, Honolulu, 1942, Iowa City, 1935, Jackson, Mississippi, 1930, Lincoln, Nebraska, 1933, Los Angeles, 1916, Ocala, 1930, Oklahoma City, 1930, Pierre, 1931, Pittsburgh, 1930, Raleigh, 1933, St. Louis, 1935, Salt Lake City, 1931, Santa Fe, 1943, and Tucson, 1941.

435. RECORDS CONCERNING THE FIELD OFFICES OF THE GROUND WATER, QUALITY OF WATER, AND WATER UTILIZATION BRANCHES. 1946-53. 2.5 ft.

Arranged alphabetically by district or field office, thereunder by Branch, and thereunder chronologically.

Chiefly correspondence and memorandums to and from the district engineers and geologists, with some reports, agendas, minutes, handwritten notes, statistical summaries, and other records regarding the administration, operations, and projects of the district and field offices of the Branches of Ground Water, Quality of Water, and Water Utilization.

Included is information on allotments and estimates for field activities, compilation and submission of field data, personnel and payroll matters, proposed projects, studies for the Department of Defense, and cooperation with other Federal agencies, States, and municipalities. There is also a file from a field office in Agana, Guam, concerning a cooperative agreement with Guam for water-resources investigations, including water-feasibility studies and installation of gaging stations.

436. CASE FILES RELATING TO OFFICE SPACE FOR DIVISION FIELD OFFICES. 1921-53. 3 ft.

Arranged alphabetically by name of city, followed by a file for Alaska and two general files.

Correspondence, memorandums, completed "Space Summary for Building" and "Occupancy Confirmation" forms, floor plans, telegrams, handwritten notes, newspaper clippings, and other records that concern the leasing of office, laboratory, and storage space for field and district offices. The files include information about negotiations for space in buildings on university campuses.

437. PROCEEDINGS OF A BRANCH CONFERENCE OF ENGINEERS. Dec. 1914. 2 in.

Unarranged.

Copies of the papers delivered on such subjects as the functions of the central and district offices, progress and utilization reports, manuscript preparation and illustrations, automatic gages, the Stevens continuous water-stage recorder, Friez's improved automatic water-state register, measurement of drainage areas, classification of land, and accuracy of streamflow data. There is also an introductory statement.

438. ANNUAL REPORTS. 1933-47. 3 ft.

Arranged chronologically by year. For each year, a Branch report precedes District reports arranged alphabetically by field office or engineer's surname. There are no District reports for 1947.

Narrative reports, statistical summaries, correspondence, memorandums, personnel lists, and other records concerning Branch programs and projects, including cooperation with Federal agencies, States, and municipalities.

439. QUARTERLY REPORTS. 1943-48. 1.5 in.

Arranged chronologically.

Narrative reports, accompanied by statistical summaries and lists of personnel, regarding personnel changes, investigations, publications in progress, and other Branch activities. Reports for 1943-March 1946 are quarterly

reports of the Branches with some Division level information. Reports for the quarters 1947-48 are Division-level reports. Not all quarters are represented.

440. MONTHLY PROGRESS REPORTS OF THE DIVISIONS AND FIELD OFFICES. Sept. 1934 - June 1935. 2 ft.

Arranged chronologically, and thereunder by Division and alphabetically by field office.

Narrative reports, with statistical summaries and tables, concerning the status of projects, public-works programs, and other cooperative investigations; internal reports and laboratory work; gaging stations; Division publications; and personnel matters.

441. RECORDS CONCERNING SIX-YEAR CONSTRUCTION AND REPAIR PLANS FOR FEDERAL PUBLIC WORKS. 1937, 1939, and 1941. 4 in.

The records for the first six-year plan, 1939 to 1944 (compiled in 1937), are arranged by subject, and thereunder alphabetically by State; records for the second six-year plan, 1941 to 1946 (compiled in 1939), are arranged by subject. A separate memorandum, dated 1941, is attached to the second set of plans.

Report forms, statistical summaries, and memorandums regarding the plans, estimates, and justification for proposed Federal Public Works projects during two six-year periods. The plans, submitted in 1937 and 1939, cover construction and repair projects relating to the work of the Water Resources Division.

442. BUDGET FILES. 1929-53. 2.5 ft.

Arranged chronologically.

Each file usually contains reports, statistical summaries, correspondence, memorandums, lists, circulars, copies of legislation, and other records regarding budget estimates, justifications, appropriations, allotments, and limitations for fiscal years 1931 to 1953. Also included are copies of applications for funds, statistical summaries, and other records concerning appropriations made by the Federal Civil Works Administration and the National Emergency Council for Division projects from 1933 to 1936.

443. ADMINISTRATIVE RECORDS OF THE FISCAL MANAGEMENT SECTION. 1947-56. 4 ft.

The general files at the beginning of the series are arranged by subject; the remainder are arranged by Surface Water and Ground Water areas, thereunder by district or field office, and thereunder roughly chronologically.

Chiefly correspondence and memorandums, but also includes lists of projects, statistical summaries, vouchers, and other records regarding estimates, allotments, and transfer of funds for the Division's programs in the field; project authorizations; correspondence and memorandums concerning cooperative agreements; discrepancies in district accounts; damage claims; and purchase of equipment. Two items in the Iowa City, Iowa file are dated 1942.

444. RECORDS OF THE FISCAL MANAGEMENT SECTION CONCERNING COOPERATIVE AGREEMENTS. 1945-63. 13 ft.

Arranged in two time segments, 1947-57 and 1945-63; thereunder by Branch, then alphabetically by State or Territory, and thereunder chronologically.

Copies of cooperative agreements, completed "cooperative agreement transmittal-program description" forms, "fiscal abstract" forms, "advise of allotment" forms, correspondence, memorandums, statistical tables and summaries, and other records relating to the Division's cooperative agreements with States, counties, municipalities, water districts, tribal councils, and universities. The agreements concern water-resources investigations; recommendations and approvals for projects; and estimates, allotments, modifications, reimbursements, and transfer of funds for cooperative projects.

The files in the first time segment (1947-57) ceased to be administratively active in 1952, although documents were added up to 1957. This part of the series also contains a greater number of project descriptions. The majority of the records in the second time segment (1945-63) date from 1951, include more cooperative agreements, and contain documentation on combined investigations by the branches

445. MONTHLY PROGRESS REPORTS OF DISTRICT ENGINEERS CONCERNING CONSTRUCTION AND MAINTENANCE. April 1950 - May 1951. 5 in.

Arranged chronologically.

Statistical reports collected by the district engineers for the Bureau of Labor Statistics, Department of Labor, showing the cost of construction and maintenance at the field offices.

446. RECORDS CONCERNING ANNUAL ESTIMATED EXPENDITURES FOR CONSTRUCTION AT THE FIELD OFFICES. 1957-59. 3 in.

Arranged chronologically.

Statistical reports, memorandums, correspondence, and lists regarding the estimated expenditures for construction at the field offices for calendar years 1957 and 1958.

447. ESSENTIAL-DOCUMENT INVENTORIES FROM FIELD OFFICES. Feb. 1951. 4 in.

Arranged alphabetically by State.

Listing of inventory reports compiled by the field offices in response to a Division Circular, dated January 29, 1951, directing offices to identify documents deemed indispensable to the USGS in the event of a major disaster. Most reports include office name, brief description of the records, priority level, location of records, linear feet, cabinet and floor-space requirements, and recommendations for microfilming or additional security measures. Also included with some of the reports are related indexes, memorandums, and handwritten notes.

448. RECORDS CONCERNING THE ORGANIZATION OF THE DIVISION. ca. 1932-56. 3 ft..

Arranged by subject or alphabetically by State in which field offices are located.

Memorandums, reports, drafts of reports, correspondence, handwritten notes, press releases, lists of Division field offices and USGS committees, statistical summaries, organizational charts, graphs, completed questionnaires, and other

records regarding the activities, organization and reorganization of the Division. Also included are reports, memorandums, statistical summaries, and other records concerning various special committees, established by the Division to study its organization and make recommendations, and the USGS Committee on Organization and Management; and reports, statistical summaries, and sample registers regarding the Division's "obligation registers" (a day-to-day record, arranged chronologically by date of project, of the Division's obligations and expenditures). Most of the records date from 1942.

449. RECORDS CONCERNING GENERAL STAFF COMMITTEE REVIEW OF FIELD PROJECTS.  
1953-57. 1.5 ft.

The first eight files are arranged by subject, and thereunder chronologically; the remainder of the series is arranged alphabetically by field committee, and thereunder chronologically.

Correspondence, memorandums, reports, minutes, attendance lists, administrative circulars and bulletins, statistical summaries, newspaper clippings, handwritten notes, and other records relating chiefly to decisions and recommendations made by the USGS General Staff Committee concerning the work of various field committees. Included is information relating to members of the committees; committee activities, meetings, projects and funds; and the General Staff Committee's review of their projects and reports. The records also reflect subjects of concern to the General Staff Committee, including Alaska development, reviews of reports by the Soil Conservation Service and Army Corps of Engineers, and legislation affecting water-resources policy.

*Records concerning Cooperation, 1903-66*

450. MISCELLANEOUS CORRESPONDENCE FILES CONCERNING THE INTERNATIONAL JOINT COMMISSION ON UNITED STATES-CANADIAN WATER INVESTIGATIONS. 1917-56. 10 in.

Arranged chronologically.

Correspondence; memorandums, reports, statistical summaries, press releases, newspaper clippings, transcripts of meetings, lists of gaging stations, copies of legislation, plats, photographic prints of gaging stations, and other records concerning the International Joint Commission, the International Engineering Committees and Boards (chiefly the Souris-Red River Engineering Board, the Columbia River Engineering Committee, and the Interior Board on International Water and Power), joint management of international streams, power development, and gaging measurements on boundary waters, and meetings and conferences regarding joint investigations.

Also includes a series of reports titled "Water Power Resources of Canada," dated from 1942 to 1956, written by the Dominion Water and Power Bureau (of the Canadian Department of Mines and Resources) and later the Water Resources Division (of the Department of Northern Affairs and National Resources).

The International Joint Commission was created in 1912 under the provisions of the Boundary Waters Treaty of January 11, 1909, which provided that the governments of the United States and Canada agree to refer requests for investigations and reports on waters of common interest to the Commission.

451. FINANCE AND BUDGET FILES. 1940-57. 6 in.

Arranged chronologically.

Correspondence, memorandums, statistical summaries and tables, handwritten notes, copies of legislation, transcripts of statements made before the House Appropriations Committee, and other records relating to estimates, allotments, and distribution of funds for the International Joint Commission's investigations, and USGS participation in these projects.

452. RECORDS CONCERNING THE ADMINISTRATION OF INTERNATIONAL WATERWAYS. 1914-63. 15 ft.

Arranged geographically by waterway from east to west in the following order: St. John River, Passamaquoddy River, St. Croix River, St. Lawrence River, Niagara Falls, Great Lakes, Roseau River, Souris-Red River, Pembina River, Sage Creek, Frenchmen River, Battle Creek, Lodge Creek, St. Mary and Milk Rivers, Deer and Miner's Creeks, Kootenai River, Osoyoos Lake, Columbia River, Yukon River; and thereunder chronologically or by type of document.

Correspondence, memorandums, reports, statistical summaries, press releases, newspaper clippings, minutes, copies of speeches, transcripts of proceedings of Commission meetings, handwritten notes, plats, diagrams, processed reports and pamphlets, and other records concerning the joint operation of international streams between the United States and Canada, power development on international rivers, gaging measurements from stations on boundary waters, commission investigations, and commission and engineering-board meetings concerning the waterways.

The Great Lakes files contain compiled hydrologic data dated ca. 1870-1923 (from the files of Robert E. Horton), the Yukon River file contains hydrologic data from the early 1910's, and the Milk and St. Marys' Rivers files contain Frederick H. Newell correspondence dated 1914-15.

Of particular interest are the bound reports on the Passamaquoddy Tidal Power Project (1950-63), correspondence concerning the conservation of Niagara Falls (1953), and a set of inspection reports concerning the "Utilization of Water in the Milk River Basin within the Blackfeet Indian Reservation, Montana" (1960-63). Also included are a set of annotated aerial-mosaic contact prints of Sage Creek and glass slides and photographs, undated, that appear to be of a Rosseau River flood and flood damage.

453. RECORDS CONCERNING COOPERATION WITH STATE AND TERRITORIAL GOVERNMENTS. 1903-30. 6 ft.

Arranged alphabetically by State, Territory or subject, and thereunder chronologically. The subject files are Hetch Hetchy (with the California files) and Washington Irrigation and Development Company. Also included, at the end of the series, is a list of State Geologists, and other cooperative program officials for the years 1915 to 1936, that gives names, addresses, occupations, and the USGS organizational unit involved.

Chiefly correspondence, but also includes memorandums, reports, handwritten notes, statistical summaries, copies of legislation, plats, cooperative agreements, vouchers, and other records regarding the Division's cooperation with the governments in water-resources investigations. Included is information relating to various cooperative projects, reimbursements, transfer of funds and sharing costs, allotments and estimates, and the assignments of local officials and Division employees.

454. RECORDS CONCERNING RIO GRANDE JOINT INVESTIGATION. 1935-37. 3 in.

Arranged in four files designated: "General," "Ground Water," "Robert Follansbee," and "B[erkeley]. Johnson."

Correspondence, memorandums, reports, and statistical summaries concerning a study sponsored by the National Resources Committee to survey the available water supplies of the Upper Rio Grande River to determine an equitable allocation of water to Colorado, New Mexico, and Texas. The Public Works Administration allotted the funds to the National Resources Committee at the request of the Rio Grande Compact Commission. Includes information on surface-water, ground-water, and quality-of-water investigations, distribution of funds, and personnel matters.

455. RECORDS CONCERNING INTERSTATE RIVER COMPACTS AND REGIONAL PROJECTS. 1923-54. 3 ft.

Arranged alphabetically by name of river, region, or project. See Appendix 28 in this inventory for a list of file titles.

Correspondence, copies of legislation, minutes of meetings, draft and final copies of compacts, conference and other memorandums, telegrams, copies of compact resolutions, maps, lists of gaging stations, budget estimates and justifications, copies of articles and other printed items, reports, newsletters, and other records relating chiefly to USGS oversight of stream-gaging stations required for the operations of compacts and projects. Other subjects include appropriations, the formation of compacts and the role of the Federal representative on compact administrations, and cooperation with International Commissions, State agencies, private corporations and Federal agencies such as the Bureau of Reclamation, and the Army Corps of Engineers.

456. RECORDS CONCERNING RIVER INVESTIGATIONS. 1938-53. 1.5 ft.

The first file is titled General Compact Commissions. The remaining files are arranged alphabetically by river and thereunder chronologically.

Correspondence, reports, memorandums, agendas, minutes and proceedings of technical meetings and conferences, drafts of compact agreements, publications, statistical summaries, newspaper clippings, and other records concerning the administration, funding, plans and programs of the Bear, Delaware, and Pecos River Joint Investigations and the Boise River Silt Project. Also includes a correspondence file concerning the release of USGS data on the Columbia River flood of May 1948 to the Department of Justice. The file on general-compact commissions contains correspondence and memorandums regarding Federal representation on interstate-compact commissions.

457. RECORDS RELATING TO STATE LAWS FOR COOPERATION IN WATER RESOURCES INVESTIGATIONS. Feb. - Apr. 1941. 6 in.

Arranged by State or type of document.

Correspondence, memorandums, and copies of State legislation and publications received from district engineers by the Chief Hydraulic Engineer. These documents were submitted in response to a circular, dated February 6, 1941, that requested information about State water laws, particularly those provisions granting States the authority to cooperate with the USGS on water-resources investigations. Includes copies of State laws and publications for Arkansas, Maryland, Minnesota, Missouri, New England States, New Jersey, North Dakota, Oklahoma, Oregon, South Dakota, Virginia, and Wyoming.

458. RECORDS CONCERNING STATE WATER-RESOURCES COUNCILS. 1949-57. 4 ft.

Arranged alphabetically by State or Territory followed by two regional files - New England Council and Pacific Northwest Council, and thereunder chronologically.

Chiefly minutes, but also includes correspondence, memorandums reports, agendas, newspaper clippings, and other records. The earlier records usually contain more information about problems faced by the Councils at their inception. Both sequences contain information on the organization, objectives, administration, plans, projects, and recommendations of the State Councils. There are a few items dating from 1946.

The Division set up State Water-Resources Councils (Water Resources Division Circular dated May 6, 1949) to facilitate coordination between the various field offices of the Division's Ground Water, Surface Water, and Quality of Water Branches administered by the branches' field supervisors. The Councils were established to plan and coordinate projects, negotiate cooperative agreements with State and municipal agencies, and to supervise the consolidation of administrative services in the Branch offices.

459. RECORDS CONCERNING COOPERATION WITH OTHER FEDERAL AGENCIES. 1916-52. 2 ft.

Arranged alphabetically by name of agency or subject.

Correspondence, reports, memorandums, congressional documents, copies of articles, processed issuances, budget summaries and maps, plans, public notices, and other records concerning cooperation with the Departments of

Commerce, Agriculture, Army, and State, the Army Corps of Engineers, the Bureau of Standards, the U.S. Board on Geographic Names, the Coast and Geodetic Survey, and other agencies.

The cooperative projects included the determination of ground-water supplies for agricultural-experiment stations, cemetery maintenance, and military installations; maintenance of stream-gaging stations for flood control, mining operations, hydroelectric-power production, and irrigation; Alaska stream investigations; stream-gage and

water-meter calibration tests; USGS participation in the European Recovery Program; and assistance to international river commissions.

460. RECORDS CONCERNING COOPERATION WITH THE ARMY CORPS OF ENGINEERS. 1915-45. 5 in.

Arranged chronologically.

Chiefly correspondence, but also includes reports, memorandums, circulars, minutes, proceedings, attendance lists, statistical summaries, maps, and other records concerning cooperation with the Corps of Engineers in water-resources programs, particularly the intercoastal waterway, flood control, stream gaging, and field tests of measurement devices.

461. CORRESPONDENCE WITH DISTRICT ENGINEERS CONCERNING COOPERATION WITH THE ARMY CORPS OF ENGINEERS. 1928-44. 15 in.

Arranged alphabetically by field office, and thereunder chronologically.

Consists for the most part of correspondence between the Chief Hydraulic Engineer and district engineers, but also includes reports, memorandums, statistical summaries, lists, maps, and other records regarding cooperation with the Corps of Engineers in water-resources programs, particularly stream-gaging and flood-discharge measurements.

462. RECORDS CONCERNING COOPERATIVE STREAM-GAGING PROGRAMS WITH THE ARMY CORPS OF ENGINEERS. 1928-31; 1936-43; 1951-66. 4.5 ft.

Arranged in rough chronological order and thereunder by geographical area or district office.

Correspondence, memorandums, reports, statistical summaries, tables, lists of cooperative stations, completed report forms on river gages, copies of legislation, vouchers, handwritten notes, plats, maps, and other records regarding cooperation with the Corps of Engineers in the construction, maintenance, and operation of gaging stations; estimates, allotments, and appropriations for cooperative programs; special studies prepared by the Division for the Corps of Engineers; and proposals and recommendations by the district engineers for new stations and equipment. Also contains some information relating to cooperative stream-gaging projects with the Weather Bureau.

463. CORRESPONDENCE WITH THE ARMY CORPS OF ENGINEERS CONCERNING EQUIPMENT. 1933-41. 1 in.

Arranged chronologically.

Correspondence, memorandums, and other records containing information about the acquisition and cooperative use of equipment.

464. REPORTS FROM DISTRICT ENGINEERS CONCERNING COOPERATIVE FUNDS AND ESTIMATES. 1940. 2 in.

Arranged alphabetically by surname of the district engineer, and thereunder chronologically.

Correspondence, reports, and statistical summaries regarding funds available for cooperative stream-gaging work for the Army Corps of Engineers and the USGS during fiscal year 1940, and estimates of funds required to finance stream gaging in the districts during fiscal year 1941.

465. RECORDS CONCERNING BRANCH PARTICIPATION IN A PIG-IRON SURVEY. 1942. 6 in.

Arranged by subject or type of record.

Correspondence, memorandums, bulletins, copies of regulations, lists of foundries, copies of "Preference Rating Orders", pamphlets, statistical summaries and tables, and other records relating to the branches' participation in a survey of the use of pig iron. The War Production Board's Division of Industry Operations requested the survey. The National Park Service and the General Land Office also participated in organizing the survey.

466. WAR-SERVICE REPORTS. 1944-45. 0.5 in.

Arranged by type of record.

Chiefly final summary reports, for the interval from July 1 to September 2, 1945, from District Engineers in response to Water Resources Division Circular of October 25, 1945. The reports usually contain information about types of projects, name of agency or applicant, and information gathered. Also included are statistical summaries, covering the period January-August 1945, of requests for assistance by Federal, State, and other applicants prepared in the central office, apparently based on monthly reports.

467. RECORDS CONCERNING HYDROLOGICAL STUDIES FOR THE MISSISSIPPI VALLEY COMMITTEE. Jan. 1934 - Jan. 1935. 2 in.

Arranged chronologically.

Chiefly correspondence, but also includes memorandums, reports, statistical summaries, maps, and other records relating to rainfall and runoff studies made by the USGS for the Mississippi Valley Committee of the Public Works Administration.

The first page of this file states that this material comprises Volume 1 and refers to a Volume 2. No Volume 2 has been found.

468. RECORDS CONCERNING STREAM-FLOW STUDIES IN THE MISSISSIPPI RIVER VALLEY. Nov. 1933-Dec. 1934. 4 in.

Arranged chronologically.

Chiefly correspondence, but also includes memorandums, reports, statistical summaries, diagrams, and other records relating to stream-flow studies to aid navigation and flood control in the Mississippi River Valley. The USGS

undertook these studies in cooperation with the Mississippi Valley Committee and its successor, the Water Section of the Technical Committee of the National Resources Board. The Mississippi Valley Commission (Army Corps of Engineers), the Section of Hydrology of the American Geophysical Union, and the Flood Protection Data Committee of the American Society of Civil Engineers, advised and collaborated with the USGS on the work.

469. RECORDS RELATING TO FEDERAL EMERGENCY-RELIEF PROJECTS. 1933-38. 2 ft.

Arranged by subject, and thereunder chronologically or alphabetically by the surname of the district engineer.

Correspondence, memorandums, employment reports, project reports, copies of legislation, statistical summaries, graphs, and other records concerning applications, proposals, estimates, allotments and transfer of funds, purchases of equipment, and recommendations for relief projects supervised by the USGS and financed by the various Federal relief agencies. Includes information on Public Works Administration's studies of the floods of 1936, analyses of water samples, and construction of stream-gaging stations; Civil Works Administration projects to assemble and analyze stream-flow records and repair stream-gaging stations; Works Progress Administration projects to repair or replace stream-gaging stations and equipment damaged or lost in floods; and Federal Emergency Relief Administration projects to assemble and tabulate streamflow data, to establish stream-gaging stations, and to investigate drought relief.

470. RECORDS CONCERNING FUNDING OF PUBLIC-WORKS PROJECTS. 1933-38. 5 in.

Arranged by subject, and thereunder chronologically or by State.

Memorandums, correspondence, statistical summaries, reports, applications for funds, completed forms, and other records regarding the Division's allocation of estimates and allotments for public works projects. The completed forms, compiled in 1934, show estimates of public-works funds for new river-measurement stations by State, with river and location, and type of structure and equipment. Other forms compiled at the same time give the estimated cost of rehabilitating existing river-measurement stations showing river and location, and specifying type of structure and equipment.

Also includes lists of counties for which Division projects were being financed with public-works funds; a report on the possible establishment of a Department of Conservation; and a report on the floods of 1935-36 in New York State by Arthur W. Harrington and Hollister Johnson.

471. CORRESPONDENCE AND OTHER RECORDS CONCERNING WEATHER BUREAU STREAM-GAGING STATIONS. 1933-34. 3 in.

Arranged in rough alphabetical order by the surname of the district engineer.

Chiefly correspondence between the district engineers and the Chief Hydraulic Engineer, but also includes some reports, lists, and other records relating to recommendations and estimates for the construction and repairs of gaging stations for the Weather Bureau, installation of recorders at cooperatively maintained stations, and other cooperative activities concerning the rehabilitation of gaging stations with Public Works Administration funds.

472. REPORTS AND RELATED RECORDS CONCERNING MAINTENANCE OF WEATHER BUREAU STREAM-GAGING STATIONS. 1934-35. 6 in.

Arranged alphabetically by the surname of the district engineer, and thereunder chronologically.

Chiefly reports from District Engineer concerning the replacement or rehabilitation of gages. Each report concerns one gaging station and usually contains the following information categories: location, date of original establishment of station and responsible agency, drainage area, type of gage, bench marks, control, type of measurement, flood history, winter conditions, regulations and diversions of the stream, anticipated accuracy of the record, cooperating agency, and a sketch showing the location of the gage. The series also includes correspondence, statistical summaries, plats, drawings, photographs, and other records relating to the inspection, rehabilitation, and replacement of Weather Bureau stream-gaging stations by funds provided by the Public Works Administration.

473. RECORDS CONCERNING FUNDING AND MAINTENANCE OF WEATHER BUREAU STREAM-GAGING STATIONS. 1933-37. 5 in

For the most part arranged alphabetically by the surname of the district engineer, and thereunder chronologically. Two general files at the beginning of the series are arranged chronologically.

Correspondence, memorandums, reports, lists, statistical summaries, drawings, and other records concerning installation of wire-weight gages and recorders, and the construction inspection, and repair of gaging stations for the Weather Bureau with Public Works Administration funds. Also includes information regarding the allotment and transfer of PWA funds, and the loan of equipment between the Weather Bureau and the USGS.

474. RECORDS RELATING TO PROPOSED WORKS PROGRESS ADMINISTRATION PROJECTS. 1935-42. 5 in.

Arranged alphabetically by State, and thereunder chronologically.

Correspondence, memorandums, reports, project applications, completed proposal forms, statistical summaries, diagrams, and other records regarding estimates of cost, work schedules, and the status of proposed projects. Typical projects to be supervised by the USGS included the construction, repair, and improvement of stream-gaging stations, and the installation of cableways across streams.

475. RECORDS CONCERNING WORKS PROGRESS ADMINISTRATION PROJECTS. 1936-38. 7 in.

Arranged alphabetically by the surname of the district engineer, and thereunder chronologically.

Chiefly correspondence, but also includes memorandums, project-authorization forms, lists, and other records concerning Works Progress Administration allotments and expenditures for repair and replacement of stream-gaging stations and equipment damaged or lost in floods.

476. WEEKLY AND SEMIMONTHLY REPORTS CONCERNING WORKS PROGRESS ADMINISTRATION EMPLOYMENT AND PAYROLLS. 1936-37. 5 in.

Arranged by week or semimonthly periods, and thereunder by district office.

The reports include completed forms and statistical summaries. Also includes memorandums relating to the allotments made for Works Progress Administration employment, the number of employees on WPA payrolls, and the amount expended.

477. RECORDS CONCERNING PUBLIC WORKS ADMINISTRATION PROJECTS. 1938-40. 1 ft.

Arranged for the most part alphabetically by the surname of the district engineer, and thereunder chronologically. A few general files are found at the beginning of the series.

Correspondence, memorandums, circulars, reports, lists, and statistical summaries regarding appropriations, allotments, expenditures, and the status of projects supervised by the USGS, as authorized by the Public Works Administration Act of 1938. Projects supervised included surveys of flood and drought conditions, and the construction, repair, and improvement of stream-gaging stations.

478. RECORDS CONCERNING COOPERATION WITH THE SOIL CONSERVATION SERVICE. 1933-44. 5 in.

Arranged for the most part chronologically. The file at the end of the series is arranged alphabetically by the surname of the resident engineer.

Chiefly correspondence, but also contains circulars, lists, statistical summaries, an undated Soil Conservation Service Directory, photographs of a "silt sampler" (1936), lists of projects and maps, and other records regarding USGS cooperation with the Soil Conservation Service on various projects, including the measurement of streamflow and silt, publication of the results of various investigations, and the sharing and dissemination of information. Also contains information on expenditures and transfer of funds for cooperative projects.

479. CORRESPONDENCE WITH DISTRICT ENGINEERS CONCERNING COOPERATION WITH THE SOIL CONSERVATION SERVICE. 1933-42. 2 ft.

Arranged alphabetically by the surname of the district engineer, and thereunder chronologically.

Chiefly correspondence, but also includes some memorandums, between the district engineers and the Chief Hydraulic Engineer, regarding cooperation with the Soil Conservation Service (SCS) on projects to construct, repair, and improve stream-gaging stations and surveys of floods and droughts. Includes information regarding estimates, allocations, expenditures, the status and results of projects, inspection of SCS projects by USGS district engineers, cooperative use of equipment, and requests for supplies.

480. REPORTS OF RESIDENT ENGINEERS ON SOIL CONSERVATION PROJECTS. 1934-39. 10 in.

Arranged in monthly groups varying from 5 to 12 months, thereunder alphabetically by the surname of the district engineer or State, and thereunder chronologically.

Chiefly weekly reports submitted by resident engineers, with some interspersed correspondence and three annotated photographs taken in 1935 of Coon Creek, Wisconsin. The records relate to USGS soil-erosion control projects. Includes information on stream and silt measurements, silt analyses, local precipitation, and runoff data.

481. RECORDS CONCERNING COOPERATION WITH THE SOIL CONSERVATION SERVICE.  
1954-57. 10 in.

Arranged by subject, and thereunder chronologically.

Correspondence, memorandums, reports, administrative issuances, handwritten notes, newspaper clippings, copies of legislation, agendas, minutes, attendance lists, statistical summaries, maps, and other records regarding USGS cooperation with the Soil Conservation Service in the Watershed Protection and Flood Prevention Program, watershed demonstration projects and the processing and publishing of project records, and the compilation of the SCS Watershed Handbook. Also includes information on USGS cooperation in the compilation of the Department

of Agriculture's National Inventory of Soil and Water Conservation Needs--published in 1962 in the "Basic Statistics of the National Inventory of Soil and Water Conservation Needs" (Statistical Bulletin 317).

482. RECORDS OF BRIGADIER GENERAL HANS KRAMER CONCERNING NEGOTIATION OF THE  
ARKANSAS RIVER COMPACT. 1945-49. 15 in.

Arranged alphabetically by subject, and thereunder chronologically.

Correspondence, memorandums, reports, minutes, transcripts of meetings, membership lists, drafts of compacts, copies of signed compacts, copies of legislation, certificates of ratification, press releases, newspaper clippings, and other records relating to Kramer's official duties, negotiation of the compact, operation of the John Martin Reservoir, and cooperation with the Federal Power Commission, Department of Agriculture, and the Army Corps of Engineers. Includes correspondence, reports, and statistical summaries, and tables regarding investigations conducted by the "Committee on Engineering Data and Studies of the Colorado," which the Commission established on March 26, 1946, to assemble and analyze engineering data needed to formulate the compact. Also contains a 1943 report of the Special Master (a judicial official) concerning the U.S. Supreme Court case, "The State of Colorado vs. The State of Kansas and the Finney County Water Users' Association."

Many of the transcripts of the Commission's meetings also are in entry 484.

483. RECORDS OF BRIGADIER GENERAL HANS KRAMER AS CHAIRMAN OF THE ARKANSAS  
RIVER COMPACT COMMISSION. 1949-60. 2 ft.

Arranged by subject, and thereunder chronologically.

Correspondence, memorandums, computed reports, annual reports, statistical summaries, newspaper clippings, copies of rules and regulations, agendas, minutes of meetings, attendance lists, schedules, committee reports, photographs, plats, graphs, and other records concerning the organization, operation, and investigations of the Arkansas River Compact Administration (ARCA). Includes files relating to a study on the feasibility of establishing a permanent fishpool in the John Martin Reservoir, the investigations of Caddo Reservoir, and the Frying Pan-Arkansas water-diversion project in Colorado. Also contains information on the ARCA's cooperation with and review of the Army Corps of Engineers' John Martin Reservoir Project; the Department of Agriculture's Fountain River Watershed Project, the Bureau of Reclamation's Purgatoire River Project, Trinidad, Colorado. Other records relate to the ARCA's cooperation with the Arkansas-White-Red Basin Inter-Agency Committee and its subcommittee. The majority of records date from 1949 to 1956, but also include the daily reports of the operation of Caddo Reservoir, from January 1957 to April 1960, and copies of the minutes from the meetings in 1959 and 1960 of the Arkansas-White-Red Basin Interagency Committee. Many of the minutes from ARCA's meetings also are in entry 485.

484. TRANSCRIPTS OF MEETINGS OF THE ARKANSAS RIVER COMPACT COMMISSION. Jan. 1946-Dec. 1948. 10 in.

Arranged chronologically.

Brigadier General Hans Kramer's copies of the transcripts of ARCA's meetings, generally held every 2 or 3 months. Copies of many of these transcripts also are in entry 482.

485. MINUTES AND OTHER RECORDS OF THE ARKANSAS RIVER COMPACT ADMINISTRATION. 1949-55. 5 in.

Arranged chronologically or by subject.

Chiefly minutes of ARCA's regular, annual, and special meetings, but with some minutes of meetings that predate congressional approval of the compact in 1950. Also includes copies of regulations, plats, and Brigadier General Hans Kramer's report to Congress in 1949 regarding the Arkansas River Compact. Copies of some of these minutes also are in entry 483.

486. RECORDS OF CARL GUSTAVE PAULSEN AS CHAIRMAN OF THE ARKANSAS RIVER COMPACT ADMINISTRATION (ARCA). 1957-60. 3 in.

Arranged chronologically.

Minutes of meetings, correspondence, memorandums, reports, annual reports, and other records relating to the implementation of the compact's provisions.

For earlier records relating to Arkansas River Compact Administration, see entries 482-485.

487. GENERAL RECORDS OF THE LAKE MEAD AND LAKE HEFFNER PROJECTS. 1947-56. 3 ft.

Arranged by subject or type of record, and thereunder chronologically.

Correspondence, memorandums, drafts of reports, completed reports, press releases, handwritten notes, newspaper clippings, statistical summaries, photographs, plats, and other records regarding the administration and operations of the Lake Mead and Lake Heffner projects. Also includes vouchers, purchase orders, completed "bill of lading" forms, and summaries of expenditures relating to estimates and allotments, transfer of equipment, and travel and expenses of personnel; and correspondence and memorandums regarding cooperation with other departments and with the Bureau of Reclamation, Weather Bureau, and reports from conferences on the Lake Mead project; and reproductions of Lake Heffner data. It should be noted that records concerning both projects appear in many of the files, contrary to the information given on the file labels. Records concerning the Lake Mead project date from 1947. Records concerning the Lake Heffner project date from 1950.

The Lake Mead project, in cooperation with the Bureau of Reclamation and the Navy Department, investigated the sedimentation, salinity structures, and water budget for Lake Mead, Nevada. The Geologic and Topographic Divisions also participated in the Lake Mead project. The joint Federal study of seepage and evaporation in Lake Heffner, Oklahoma, determined and evaluated water losses.

Related records are described in the following three entries and entry 637.

488. REPORT CONCERNING THE LAKE MEAD PROJECT. Feb. 1954. 2 in.

A three-volume processed report, "Lake Mead Comprehensive Survey of 1948-49," prepared for internal use.

489. VOLUME AND AREA COMPUTATIONS FOR THE LAKE MEAD PROJECT. 1948-49. 1 in.

Most of the computation tables are numbered consecutively, and followed by a few loose papers.

Working statistical summaries, charts, tables and graphs, and other records.

490. RECORDS CONCERNING THE LAKE MEAD SEDIMENTATION SURVEY. 1948-49. 1 ft. 4 vols. and unbound material. [NWCS, maps and plans]

Arranged by subject and sometimes thereunder by site.

Included are handwritten notes, level notes, graphs showing water-temperature measurements and water-level data, triangulation and other control-coordinate sheets, lists of triangulation-station locations, and notebooks and note cards with sounding observations.

491. RECORDS OF THE SUBCOMMITTEE ON HYDROLOGIC DATA OF THE FEDERAL INTERAGENCY RIVER BASIN COMMITTEE. 1947-48. 3 ft.

The records are in envelopes arranged by assigned number, from 1 to 56. See Appendix 29 in this inventory for a list of the maps found in the records. The appendix gives each map number (1 to 79), river basins and drainage areas covered by each map, and the envelope number where the map and related records can be found. The map numbers do not correspond to the envelope numbers. Many files contain information on several maps.

Chiefly annotated maps and statistical summaries showing the priority rating of each station for river basins and drainage areas. These records were compiled by the work groups of the Subcommittee. Also includes correspondence, lists of proposed hydrologic stations, copies of instructions, memorandums, and minutes of meetings relating to the proposals and recommendations of subcommittee members for gaging stations and ground-water investigations; and computer print-out sheets of the processed data regarding proposed hydrologic stations. The last box contains a typed summary arranged by map number giving the locations of stations, a justification for each station, State, and priority rating.

The Subcommittee included representatives from the following agencies: USGS, Army Corps of Engineers, Bureau of Reclamation, Weather Bureau, Bureau of Indian Affairs, Forest Service, Soil Conservation Service, Fish and Wildlife Service, Bureau of Land Management, Federal Power Commission, International Boundary and Water Commission, Public Roads Administration, Public Health Service, Southwest Power Administration, and the Tennessee Valley Authority. Each agency presented its general needs and uses for hydrologic data at regional conferences of the Subcommittee. The river-basin work groups then considered the needs of each agency in setting priorities for the establishment of each proposed river station.

492. RECORDS CONCERNING POSSIBLE DEVELOPMENT OF THE GREAT FALLS OF THE POTOMAC RIVER AS A HYDROELECTRIC POWER SITE. 1908, 1910-12. 5 in.

Arranged in two chronological sequences: 1908; and 1910-12.

The records for 1908 include correspondence, reports, memorandums, statistical summaries, and newspaper clippings regarding the amount of electricity, coal, and gas used by the Federal and District governments in the District of Columbia.

Of particular interest is a report by Marshall O. Leighton, Chief Hydrographer, on "The Use of Power by the General and District Governments in the District of Columbia," and a report by a U.S. Assistant Attorney on the legal rights of the United States and the District to the waters of the Potomac and power privileges at Great Falls.

The records for 1910-12 include correspondence, reports, memorandums, statistical summaries, plats, diagrams, maps, handwritten notes, and other records concerning the USGS study of the practicability of developing water power on the Potomac River at or near Great Falls, to supply energy for the District's street lights and other artificial-lighting needs.

493. RATING TABLES FOR SINGLE-POINT AND COMBINATION METER MEASUREMENTS TAKEN AT CHEVY CHASE, MARYLAND. 1909-12. 0.5 in.

Unarranged.

Completed forms, apparently used in comparison tests of these two meters.

*Records concerning Hydrologic Data and Reports, 1892-1953*

494. NOTEBOOKS RECEIVED FROM THE BUREAU OF RECLAMATION. 1892-1928. 8 in. 9 volumes

Arranged in chronologically by date of compilation.

The notebook contents are: field notes on Pecos River meanderings (Reed, 1892); administrative notes and diary entries on travel in western states (Newell, 1894); notes on triangulation sites (location and author not given, 1899); level notes on Menominee drainage, Michigan (Herdman, 1919); level notes on the Lake Waccamaw tract, North Carolina (Bissell, 1928); and notes on the Potillas Canal, Damsite and Reservoir, and Upper Millinea Reservoir, Puerto Rico (Pace, n. d.).

495. FIELD NOTEBOOKS CONTAINING HYDROLOGICAL DATA. 1907. 4 in. 8 volumes and an index.

Arranged by assigned number. The index to the notebooks is arranged by county, and thereunder alphabetically by town.

Notebooks compiled by Stephen R. Capps and Frederick G. Clapp that contain data on underground water in northern Indiana. A typical notebook contains rough topographic sketches showing the location of wells or springs; narrative description of areas where sites are located, type of well, depth, and nature of geologic strata; and well-record tables, showing the name of the owner, county, town, name of the driller, depth, method of construction, year, size, depth to water, volume of flow, type of pump, yield, and other information.

496. STATISTICAL REPORTS FOR THE DIVISION'S PROGRAM OF 1949. 5 in.

Arranged by type of document in three sets, thereunder by State or district office, and thereunder by Branch.

The first set of reports show the estimated number of daily and periodic stream-gaging stations and the sources which funded their operations. The second set shows the estimated distribution of staff time by activity. The third set shows an analysis of the 1949 program by activity interests.

497. RECORDS RELATING TO FORMULATION OF THE ANNUAL BUDGET FOR 1951. 1949-50. 5 in.

Arranged by type of record, thereunder by Branch, and thereunder by field office or project.

Forms, completed for Fiscal 1950, showing estimates of the type and number of water records collected by the States under various sources of funds, schedules of projects begun or ongoing, estimates of obligations by functions, statistical summaries, and other records. The records were compiled in accordance with Fiscal Order 49-16 of June 20, 1949, and Fiscal Instruction 22.2, dated June 22, 1949.

498. ANNUAL STATISTICAL REPORTS CONCERNING HYDROLOGIC DATA COLLECTED AND PROJECT INVESTIGATIONS. 1950-53. 1.5 ft.

Arranged chronologically, thereunder by Branch, and then by district or field office.

Reports, accompanied by a few memorandums, and oversized statistical tables, giving the annual statistics for the hydrologic data collected by the Division in cooperative and other programs, a brief description of the investigations by the branches, their sources of funding, and plans for publication.

499. MONTHLY AND QUARTERLY REPORTS ON DATA REQUESTED. Apr. 1951-June 1952. 2 ft.

Arranged chronologically: reports for April 1951 to September 1951 are arranged by month; the remainder by quarter, and thereunder by Branch, and thereunder by district or field office.

Copies of "Report of Data Requested" that give statistical summaries for the sources of requests (other Federal agencies, States, municipalities, other local units, commercial firms, and individuals). Includes the major use of the data, the types of requests and data furnished, and the adequacy of replies; and the "Record of Data Requested," which gives narrative summaries of the requests and replies. Also contains a few memorandums and oversized statistical tables.

The requests were received by the Division from Federal agencies, States, municipalities, countries, water districts, and private firms for information relating to streamflow records, the design and operation of water-supply systems, pollution and flood investigations, and the general development of water resources.

500. RECORDS CONCERNING "THE DYNAMICS OF WINDMILLS," BY J. ALFRED GRIFFITHS. 1898-99, 1901. 3 in.

A complete copy of Griffiths' manuscript including statistical summaries and graphs computing the efficiency of windmills; an 1899 letter (19 pages) from Thomas O. Perry to Frederick H. Newell, Hydrographer, giving a detailed critical review of the manuscript; and a 1901 letter from Griffiths inquiring about publication of the manuscript. The series also contains two partial annotated copies of the manuscript.

501. UNPUBLISHED MANUSCRIPTS. 1904-6. 9 in.

Arranged in the order given below.

Manuscripts for "Hydrography of the Colorado River Drainage Basin (to the end of 1904)," by Edward C. Murphy; "Percolation and Evaporation," by Robert. Horton (ca. 1904); and "Report on Hydrographic Investigations in the Sacramento Basin, California," by Samuel G. Bennett (ca. 1906). The manuscripts contain statistical summaries. Horton's manuscript includes a letter and a memorandum containing recommendations and editorial remarks. Bennett's manuscript contains a plat.

502. ANNOTATED "SUMMARIES OF THE CLIMATOLOGICAL DATA FOR THE UNITED STATES BY SECTIONS." ca. 1909. 5 in.

Arranged by geographical sections of the United States.

A set of Weather Bureau publications containing summaries of climatological data including narrative reports, tables, and maps. Many of the maps have annotations by Henry Gannett, a member of the Topographic Branch staff.

503. PLANS AND DIAGRAMS RELATING TO EQUIPMENT FOR THE COMPILATION OF HYDROLOGIC DATA IN CANADA. 1911. 7 items.

Plan for a current-meter rating station and diagrams of a (cable) car for a station at Calgary, Alberta (3 items); and the rating curves for Gurley's electric meters (4 items). The plans and diagrams were prepared by the Irrigation Office of the Department of Interior, Dominion of Canada.

504. RECORDS CONCERNING STREAM-GAGING STATIONS IN WEST VIRGINIA, OHIO, AND KENTUCKY. 1915-16. 2 in.

Arranged by State, as listed above, and thereunder by river, stream, or creek.

Reports (describing river stations), graphs, and printed maps concerning stream-gaging stations, rating curves, and topography of streams.

505. REPORTS OF DAILY GAGE READINGS AT THE PUMPING STATION IN MEMPHIS, TENNESSEE. July 11, 1922 - August 29, 1923. 5 in.

Arranged chronologically.

Completed forms showing hourly gage readings and other data, sometimes accompanied by comments. Some forms include numerical information about the operation of the engine, pumps, and boilers.

506. TABLES OF AREA OF WATER BODIES IN THE MERRIMACK AND CONNECTICUT RIVER BASINS. Undated. 21 pages.

Information on the Merrimack River tables is arranged geographically, beginning with the East Branch of the Pemigewasset River, and progressing down the basin in the order in which the tributaries empty into the Merrimack River; information on the Connecticut River tables is arranged geographically, beginning with the Third Connecticut Lake and progressing down the basin.

Tabular data concerning the area of all the principal water bodies in the Merrimack River Basin (lakes, ponds, and reservoirs). Data for each water body include its name (when known), longitude and latitude, mean sea-level elevation, area of water surface in acres, and an approximate description of its location. Also included is a summary table for all principal tributaries.

507. BACKGROUND DATA FOR WATER-SUPPLY PAPERS. 1935-40. 19 ft.

Arranged numerically by Water-Supply Paper, 771, 772, 796F, 796G, 798, 799, 800, 837, 838, 839, 842, 843, 844, 867, 869, 915, 966, and 1066, thereunder by subject, surname of correspondent, or type of data.

Working and printed copies of statistical summaries and tables, annotated manuscripts and maps, graphs, charts, narrative and bound reports, published articles, oversized statistical tables, plats, copies of offset sheets, photographic prints, and other records that appear to have been used in the preparation of water-supply papers. These records relate chiefly to the effects of storms and floods on river-basin areas. The statistical data contain hydrological and meteorological information, including precipitation, runoff, and discharge measurements, riverflow computations, measurements of ocean-wave height, and ground-water analyses.

Also includes correspondence, memorandums, and minutes of meetings regarding the plans and progress of project investigations, collection of data, transfer of funds, loan of data and supplies, recommendations to correct or amend the water-supply papers, and publication of the papers.

Many of the publications were prepared with the aid of funds from the Works Progress Administration and Public Works Administration. Information was received from a number of cooperating sources, including the Weather Bureau, Army Corps of Engineers, Soil Conservation Service, National Resources Planning Board, and State agencies.

Of particular interest are records relating to an investigation by the National Resources Planning Board's Subcommittee on the Gila Basin, which was asked to report on the relationship between land-improvement practices and quality and quantity of water in the Gila Basin in Arizona and New Mexico. The Subcommittee was established in 1940 after a report that the Department of Agriculture's soil-conservation practices had harmful effects on streamflow that resulted in losses to the San Carlos Indian Reservation and surrounding area. These records appear to have been added as a follow up to USGS Water-Supply Paper 796-F, "Geology and Ground-Water Resources of the Valley of the Gila River and San Simon Creek, Graham County, Arizona" ( by Maxwell M. Knechtel, 1938).

508. ANNOTATED MANUSCRIPTS AND OTHER RECORDS RELATING TO "A HISTORY OF THE WATER RESOURCES BRANCH OF THE UNITED STATES GEOLOGICAL SURVEY," VOLUMES 2, 3, AND 4 (1919-1947) BY ROBERT FOLLANSBEE. 1949, 1953. 2 ft.

Arranged by volume, followed by a general reference file.

Annotated manuscripts of the three unpublished volumes of Follansbee's history of the Water Resources Branch: Volume 2, "Years of Increasing Cooperation, July 1, 1919 to June 30, 1928"; Volume 3, "Years of 50-50 Cooperation, July 1, 1928 to June 30, 1939"; and Volume 4, "Years of World War II, July 1, 1939 to June 30, 1947." The general file contains memorandums concerning the manuscripts, and photographic prints of Nathan C. Grover, staff, field laboratories, gaging stations, wells, and equipment.

A cloth copy of Follansbee's Volume 1, "A History of the Water Resources Branch of the United States Geological Survey, to June 30, 1919," donated by the estate of Charles S. Howard, a pioneer in water-quality investigations, has been placed with the records. The volume was formally published by the U.S. Government Printing Office in 1994 as a USGS Special Book.

In 1990 the USGS published the fifth volume in this series, "A History of the Water Resources Division, U.S. Geological Survey: Volume 5, July 1, 1947 to April 30, 1957," by George E. Ferguson, and others. The sixth volume, "A History of the Water Resources Divisions, U. S. Geological Survey: Volume VI, May 1, 1957, to June 30, 1966: The Years of Change," by Hugh H. Hudson, Joseph S. Cragwall, and others appeared in 1996. A seventh volume, covering the years 1966-1976, is being prepared.

White Mountains Investigation, 1896-1932

The collection of waterflow and precipitation data in the White Mountains region was undertaken under the provisions of the act of March 1, 1911 (36 Stat. L., 962), known as the "Weeks Act," in cooperation with the National Forest Reservation Commission.

509. SUBJECT FILES OF THE SURFACE WATER DIVISION OFFICE IN NORTH WOODSTOCK, NEW HAMPSHIRE. 1911-12. 15 in.

Arranged alphabetically by subject or surname of correspondent, and thereunder roughly chronologically.

Chiefly correspondence, but also includes reports, monthly reports, memorandums, completed contracts and employment forms, vouchers, account sheets, receipts, statistical summaries, a ledger of nonexpendable property, catalogs, publications, plats, diagrams, and other records regarding the White Mountains Investigation. The correspondence is chiefly between the Engineer-in-Charge, John C. Hoyt, or the Assistant Engineers, Charles R. Adams and Guy C. Stevens, and various Junior Engineers, assistants, and goods suppliers. Included is information on the progress of the investigations, the collection and analyses of data, instructions and recommendations, field employees, expenses, and the purchase of supplies.

510. DATA FILES. 1906, 1911-12. 2 ft.

Arranged as follows: Ammonoosuc River, Anderson Brook, Burnt Brook, Covert Brook, Fabyans (meteorological observations at various sites), Flume Brook, Gibbs Brook, Mad River (at Waterville), Mad River (West Branch), Shoal Pond Brook, and Zealand River, followed by three general files.

Statistical summaries, sometimes accompanied by charts and correspondence, of the data collected as part of the White Mountains Investigation. The statistical summaries, sometimes termed field notes, give river-height observations, precipitation and runoff data, and the mean figures for the snow and water equivalent of drainage sites. There are also a few pages of correspondence concerning hydrographic work in the White Mountain region dated 1906 in the last folder.

511. RECORDS CONCERNING DISTRIBUTION OF EXPENSES. May 1911- March 1913. 3 in.

Arranged in two parts: the first by month, and thereunder chronologically; the second by drainage project.

Completed charge sheets showing the distribution of expenses incurred from the White Mountains Investigation; each sheet gives the date, to whom paid, and total amount and purpose of expenditure. Also includes completed account sheets for various drainage projects that give voucher number, date, to whom paid, and purpose of expenditure.

The corresponding vouchers have not been found.

512. DISTRIBUTION JOURNAL OF THE NORTH WOODSTOCK OFFICE. Oct. 31, 1911-Apr. 10, 1912. 1 in. 1 vol.

Arranged in numerical order by voucher number.

Individual entries give the voucher date, voucher number, to whom paid, date forwarded, amount, purpose of expenditure, contract field number, contract data, and remarks. Some of the corresponding contracts can be found in entry 509.

The corresponding vouchers have not been found.

513. ADMINISTRATIVE RECORDS. 1911-13. 4 in.

The first two files are arranged by subject; the remaining files are arranged chronologically by month.

Correspondence, handwritten notes, lists of property (purchased, loaned, and abandoned or lost), ledger sheets, bills, vouchers, and statistical summaries regarding the purchased, rented, and abandoned or lost equipment and property of the White Mountains Investigation, the loan of equipment from the Weather Bureau and Forest Service, the payment of storage and rental fees, and housing and expense accounts for the members of the Investigation.

514. RECORDS CONCERNING PRECIPITATION DATA. July - December 1911. 10 in.

Arranged by the following streams or gaging sites: Ammonoosuc, Crawford, Waterville, North Woodstock, East Branch, and Zealand, and thereunder by location of recorded observations.

"Gage Height Observations" notebooks that contain dates, observer's name, precipitation data, and remarks on meteorological and rain-gage conditions.

515. DATA COMPILATIONS AND OTHER RECORDS. 1896, 1903-6, 1911-13. 10 in.

Arranged by subject, but not all the documents that pertain to a subject are found together.

Statistical summaries, charts, drafts of reports, completed reports, plats, correspondence, and photographic prints that were apparently compiled and maintained by the North Woodstock Office. Includes data on precipitation measurements, the ratio of flood period to crest, runoff analyses, and flood intensity; reports on soil studies, spring runoff, and the relations of forests to streamflow; and narrative descriptions of gaging stations. Also contains some runoff data from 1896, some correspondence dated 1904, a report on the hydrography of the White Mountains region during September 1903 to October 1906, and lists of photographs taken by various observers in 1912.

516. WATER-DISCHARGE MEASUREMENTS AND CURRENT-METER NOTES. August 1911 - August 1912. 10 in.

Arranged alphabetically by river station, and thereunder chronologically.

Discharge-measurement notes taken for the White Mountains Investigation that include date, location, width, area and mean velocity of water at station site, discharge measurements, time of measurement, method of suspension, and notes on weather and station conditions.

517. FIELD NOTES CONCERNING GAGING STATIONS AND READINGS. 1911-12. 1 ft.

Arranged by the surname of the engineer, and thereunder chronologically.

Daily narrative entries by the field engineers of the White Mountains Investigation that include information on their work procedures, installation and maintenance of gaging stations, meteorological conditions, and gage readings. Some of the field notes include statistical data.

518. RECORDS OF RIVER STATIONS. 1911-12. 4 in.

Arranged alphabetically by river station or other site: Ammonoosuc River near Breton Woods, Ammonoosuc River near Twin Mountain, Halfway Brook, Jackman Brook, Lost River, Mad River above Flume Brook, Mad River below Flume Brook, Moosilauke River below Pike Brook, North Woodstock Meteorological Station, Osceola Brook, Pemigewasset River at Plymouth, Middle Branch Pemigewasset River at North Woodstock, Pike Brook near mouth, Shoal Pond, and Stillwater Meteorological Stations.

Chiefly statistical summaries that include data for meteorological observations, rain-gage measurements, gage-height observations, precipitation intensity, and discharge and runoff measurements taken at various river stations in New Hampshire. Many files also contain blueprint copies of forms describing the station including information such as station location, drainage area, type of gage, channel, date established, and a sketch showing the location of the gage.

519. ORIGINAL GURLEY PRINTING-GAGE RECORDS. February-November 1912. 25 spools.

Arranged by brook, and thereunder chronologically.

Original print-out tapes from Gurley stream gages for Anderson Brook, Burnt Brook, and Shoal Pond Brook. Each spool of tape is annotated to show the place and time span of measurements.

520. REPORTS AND OTHER RECORDS CONCERNING THE HYDROGRAPHY OF THE WHITE MOUNTAINS IN NEW HAMPSHIRE AND OTHER REGIONS. 1911-13, 1932. 5 in.

Arranged roughly by subject.

Chiefly reports, but also includes correspondence, statistical summaries, tables, photographic prints and negatives, and other records relating chiefly to the hydrographic investigations of the White Mountains. Included are the original annotated draft and a 1960 reproduction of the final report of the investigation, "The Relation of Forests to Stream Flow," and an undated digest of the report; photographic prints and negatives of timber land in the White Mountains region; a preliminary report, dated 1904, of the hydrographic work in the White Mountains region; and a list of gaging stations and a report on the hydrographic investigations in the Appalachian Park region. Also includes correspondence, dated 1932, regarding the transfer of White Mountains records by the district engineer to the central office of the USGS.

521. CONTOUR MAPS [RELATING TO THE WHITE MOUNTAINS INVESTIGATION]. 1911-12. 19 items. [NWCS, maps and plans]

Arranged by watershed or stream.

The maps show the locations of stream-gaging stations, snow scales, and rain gages. The maps were compiled in cooperation with the National Forest Reservation Commission. There is an original and a copy of each map. The series is accompanied by later topographic-quadrangle maps of the area, which were probably added to the collection for reference purposes.

522. MISCELLANEOUS STREAMFLOW DATA. 1903-25. 4 in.

Arranged by subject.

Statistical tables and summaries, reports, correspondence, and handwritten notes concerning water resources in the White Mountain area. Includes information relating to streamflow data, storage reservoirs, and forest conditions. Interspersed in the files concerning the Connecticut River at Oxford, New Hampshire, and Ten Mile River are correspondence, statistical tables, and graphs, dated 1913-25, concerning inquiries and analyses on the waters of this region.

523. PHOTOGRAPHS RELATING TO THE WHITE MOUNTAINS INVESTIGATION FROM THE JOHN CLAYTON HOYT COLLECTION. 1911-12. 1 album, 1 in.

Unarranged. Each print is captioned and dated. This is series JCH (NWCS, still pictures).

Black and white prints, varying in size from 3.25 in. x 4.25 in. to 3.25 in. x 5.5 in., show snow scales, stream-gaging stations and drainage basins. The streams show are Anderson, Burnt, Flume, Gibbs, and Shoal Pond Brooks, and the Ammonoosac, Mad River and West Branch Mad River. There are also a few photographs showing logging operations and members of the study party at the Stillwater Camp.

Negatives for the photographs bearing numbers preceded by the letter "A" are described in series WMN (entry 525).

A note found with the photographs states that these items were salvaged from Hoyt's collection.

524. PHOTOGRAPHIC PRINTS. 1911-12. 2 albums and unmounted photographs. 6 in.

The photographs in the albums are unarranged. The unmounted photographs are arranged in two sets "A" and "B" and thereunder by agency assigned number. Many of the prints carry titles and dates. This is series WM (NWCS, still pictures).

Black and white prints showing gaging stations, snow-scale sites, erosion scars, cut-over land, forest growth and scrub cover, and panoramic views of watersheds and drainage basins. The streams shown in the photographs are the Ammonoosuc River, Anderson Brook, Burnt Brook, Covert Brook, Flume Brook, Gibbs Brook, Halfway Brook, Jackman Creek, Lost River, Mad River, Moosilauke River, Pike Brook, West Branch Mad River, Shoal Pond Brook, and Zealand River. Most of the photographs were taken in 1912.

Negatives for many of the prints with numbers preceded by the letters "A" and "B" are described in series WMN (entry 525).

525. PHOTOGRAPHIC NEGATIVES. 1911-12. 10 in.

Arranged in two sets "A" and "B," and thereunder numerically by agency assigned number. This is series WMN (NWCS, still pictures).

Black and white negatives (4 in. x 6 in.) corresponding to the photographs described in series JCH (entry 523) and WM (entry 524).

Records concerning the Superpower Survey, 1918-23

The Sundry Civil Expenses Act of June 5, 1920 (41 Stat. L., 911), included provisions for an investigation by the USGS of the electrical-power requirements of the industrial region between Boston and Washington, D.C., and the preparation of a report on the benefits of establishing a comprehensive system to provide electricity to industrial users in the region. The investigation also was known as the Superpower Survey. The Water Resources Division provided administrative support for the work. The findings of the survey were published in 1921 as USGS Professional Paper 123, "A Superpower System for the Region between Boston and Washington," by William S. Murray and others.

526. RECORDS CONCERNING THE ORGANIZATION OF THE SUPERPOWER SURVEY. 1918-20. 1 in.

Unarranged.

Chiefly copies of letters from utilities, industries, railways, engineering associations, newspaper editors, and others to the USGS, Interior Department officials, and members of Congress justifying a superpower investigation. Also includes copies of data, a project budget, and background statements prepared by the Water Resources Division for the use by the USGS Director during appearances before congressional committees.

527. ADMINISTRATIVE FILES. 1918-22. 5 in.

Arranged by subject.

Correspondence, processed reports, and other records concerning the organization and expected benefits of the superpower survey, publication of the survey report, and coordinated hydroelectric development based on recommendations in the report. Also includes a reply (from the Secretary of the Interior) to an inquiry from Col. Joseph H. Pratt, North Carolina Geological and Economic Survey, regarding a survey of superpower potential in the Southeast, and a draft of a proposed Federal Charter to incorporate the North Atlantic Superpower Company, prepared by Edward G. Buckland, a member of the Superpower Survey Advisory Board.

528. CORRESPONDENCE WITH SUPERPOWER-SURVEY STAFF AND OTHERS. 1919-23. 5 in.

Arranged chronologically.

Mostly copies of letters sent by the Chief Hydraulic Engineer and other USGS officials and letters received from the Chairman, William S. Murray, Engineer-Secretary, Henry Flood, Jr., and Chief Clerk, John J. Madigan of the Superpower Survey, concerning the organization and responsibilities of the survey team, appointments, requests for information and related topics. Also includes correspondence with other individuals interested in the superpower survey and copies of reports, memorandums, and statistical tables depicting river flow and amounts of power generated by utilities.

529. CORRESPONDENCE OF THE CHAIRMAN, WILLIAM SPENCER MURRAY. 1920-21. 5 in.

Arranged in rough alphabetical order by subject, name of correspondent, or organization.

Chiefly correspondence with engineering associations, newspaper editors, and others concerning engineering problems associated with the development of hydroelectric resources, and the impact and anticipated benefits of the superpower-survey report. Also includes copies of articles, reports, speeches and printed items.

530. CORRESPONDENCE FILE OF THE CHIEF CLERK, JOHN J. MADIGAN. 1920-21. 2 in.

Arranged in rough chronological order.

Correspondence and telegrams relating to appointments, travel, expenses, and related matters.

531. ENGINEERING-STAFF CORRESPONDENCE AND DATA FILES. 1920-21. 2 ft.

Most of the files are arranged alphabetically by name of utility, railway, or other subject. Three untitled files are at the end of the series.

Chiefly maps showing the areas served by utilities. Also including maps showing the location of railway lines and the generating stations serving the lines, tables and graphs, annual reports of utilities, reports on survey-team field trips, and other records.

532. MINUTES OF THE ADVISORY BOARD. 1920-21. 3 in.

Arranged chronologically.

Minutes of eight meetings, held in New York and Washington, D.C., between Sept. 24, 1920, and June 23, 1921. Also includes minutes of an Engineering Staff meeting on May 29, 1921, and an executive session of the Advisory Board after a special meeting on May 13, 1921.

533. STATISTICAL COMPUTATIONS FOR HYDROELECTRIC DEVELOPMENT. 1918-21. 5 in. 3 binders.

Arranged by name of river.

Tables, diagrams, and graphs showing the discharge of water at power sites, comparative flow of tributaries, average and minimum years' duration of flow, elevation of crest, and kilowatt-days of power available from natural flow. Many measurements date from 1909 interspersed with some data from the 1880's. The computations are for the Delaware, Hudson, Black, Raquette, Potomac, Susquehanna, Lehigh, St. Lawrence, and Connecticut Rivers.

534. SUPPORTING DATA FILES. 1919-21. 10 in.

Arranged by subject.

Contains steam-electric-power analysis sheets, data regarding the hydroelectric potential of various rivers (contains some data from the 1890's), lists of electric-power utilities in the northeast superpower region, progress reports, tabulated data, memorandums, correspondence, tables, graphs, and other records used to compile the superpower-survey report. There is also a set of replies to letters sent out by Lorin E. Imlay, Division Engineer, Power and Transmission, to electric power companies, cable companies, and manufacturers of transmission equipment

requesting information about experience with and opinions about power-station capacity and transmission circuits, transmission of electric power over long distances, continuity of transmission line service and related questions.

535. DRAFT REPORT OF THE SUPERPOWER SURVEY. 1921. 5 in.

An incomplete, edited, annotated draft of the superpower-survey report. Some of the appendixes have different titles and numerical designations than those with the final report, which was published as USGS Professional Paper 123, "A Superpower System for the Region between Boston and Washington" (by William S. Murray and others, 1921). Also includes correspondence concerning the content and format of the report.

536. NEWSPAPER CLIPPINGS. 1920-22. 3 in. 1 binder and unbound papers.

The unmounted clippings are arranged alphabetically by name of the newspaper; the clippings in the binder are unarranged.

The unmounted clippings concern the superpower-survey proposal and formation of the survey team. The remaining clippings concern public reaction to the superpower-survey report.

Planning Section, 1953-71

The Planning Section was established in 1956 as part of a general reorganization of the Water Resources Division. The Section succeeded the Program Control Branch, which had been established in 1948 as a staff unit. The functions of the Section included administration and coordination of programs, allocation of funding to the operating branches, and negotiation of agreements and oversight of cooperative projects. The Section reported to the Assistant Chief Hydrologist for Program and Development.

**537. PROGRAM FORMS AND OTHER RECORDS FROM THE PLANNING SECTION CONCERNING COOPERATION WITH FEDERAL AGENCIES. 1953-70. 3.5 ft.**

Arranged chronologically in three blocks: 1953-60, 1959-64, and 1963-70, and thereunder alphabetically by Federal agency or unit. The 1963-70 material forms the largest segment of the files.

Completed "Yearly Work Plan," "Project Description," and "Summary of Program" forms that provide objectives, descriptions, justifications of the cooperative programs, estimates and allotments, personnel information, and plans for publication. Also includes progress reports, lists of projects, memorandums and statistical summaries relating to proposals for new or further investigations review of projects, and estimates and allotments.

**538. PROGRAM FORMS AND OTHER RECORDS FROM THE PLANNING SECTION CONCERNING COOPERATION WITH STATES AND LOCAL UNITS. 1956-68. 5 ft.**

Arranged in the following three chronological segments: 1956-59, arranged alphabetically by State or Territory; 1960-61, arranged by region, thereunder chronologically, and then roughly alphabetically by State; and 1962-68, alphabetically by State (only includes Maryland through Wyoming).

Completed "Summary of Program" (including preliminary and revised versions), "Cooperative Agreement Transmittal-Program Description," and "Yearly Work Plan" forms that cover objectives, descriptions, and justifications of cooperative programs with States, countries, municipalities, water districts, Indian tribes, and other associations, estimates and allotments, personnel information, and plans for publication. Some of the forms are accompanied by memorandums, reports, and plats.

**539. PROGRAM FORMS AND OTHER RECORDS FROM THE PLANNING SECTION CONCERNING FEDERAL PROJECTS COMPLETED OR TERMINATED. 1957-67. 14 in.**

Arranged chronologically.

Chiefly completed "Yearly Work Plan" or "Project Description" forms, but also includes correspondence, memorandums, copies of work proposals, project reports, statistical summaries, completed project-review forms, newspaper clippings, handwritten notes, and other records relating to Federal projects completed or terminated by the Division. Contains recommendations to continue, terminate, or revise certain projects, and information regarding program allotments. Also includes a few memorandums, dated 1969, regarding the Lake Mead Evaporation Study and recommendations for recalibration.

540. PROGRAM FORMS AND RELATED RECORDS FROM THE PLANNING SECTION CONCERNING COOPERATION WITH STATES AND FEDERAL AGENCIES. ca 1964-71. 7 ft..

Arranged by type of form in two segments: "Project Descriptions" and "Summary of Program," and thereunder alphabetically by State. At the end of the first segment there are four additional files: Headquarters, Atlantic Coast Region, Rocky Mountain Region, and Pacific Region.

Chiefly completed "Project Description" (included revised versions) and "Summary of Program" forms that give objectives, descriptions, justifications of the cooperative programs, estimates and allotments, personnel information, and pleas for publication. Some of the forms are accompanied by "Project Proposal" statements, "Scope and Method" memorandums, maps, project outlines, and press releases. Of particular interest is a "Project Description" form concerning a cooperative project with the National Aeronautics and Space Administration to study erosion on the lunar surface (Rocky Mountain Region file).

541. PROJECT PROPOSALS AND OTHER RECORDS FROM THE PLANNING SECTION. 1968-69. 8 in.

Arranged in numerically by assigned number.

Chiefly project proposals completed for fiscal years 1968 and 1969. Also included are memorandums, reports, handwritten notes, work plans, copies of legislation, publication, newspaper clippings, statistical summaries, and other records concerning proposals, allotments, expenses, and Division cooperation with the States and other Federal agencies. A few items date from 1952.

*General Cartographic Records, 1899-1996*

542. MANUSCRIPT MAPS OF RIVERS, RESERVOIRS, DAM SITES, AND RELATED AREAS. ca. 1903-43. approx. 1700 items. [NWCS, maps and plans]

Arranged alphabetically by river, river basin, reservoir, dam site, lake, pond, quadrangle name (Grand Coulee), area (Red Lake Indian Reservation, lower portion), or topographic feature (Nisqually Glacier).

Chiefly planetable sheets interspersed with a few tracings. Some of the manuscripts are accompanied by transmittal letters. Many of the manuscript maps were compiled in the field by topographers with the Conservation and Water Resources Divisions of the USGS, the Army Corps of Engineers, and State agencies. Some maps are based on drawings made by the Hydrographic Branch in the 1880's. Most of the maps are in sets.

543. PUBLISHED MAPS OF RIVER SURVEYS. 1912-69. approx. 1090 items. [NWCS, maps and plans]

Arranged alphabetically by name of river.

Most of the maps are in sets, which often include plan sheets, dam-site sheets, and profile sheets.

544. PUBLISHED MAPS OF DAM AND RESERVOIR SITES. 1926-71. approx. 160 items. [NWCS, maps and plans]

Arranged alphabetically by State - Alaska, Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, and Washington - and thereunder by site.

Some of the maps show the locations of gaging stations, and depict river profiles. Some sets of maps are stapled together.

545. MAPS OF THE UINTA INDIAN RESERVATION. 1899-1900. 18 items. [NWCS, maps and plans]

Two sets of manuscript maps: the Indian Reservation, showing a 20-ft. contour interval, and the canal line on the reservation showing a 5-ft. contour interval. The surveys were done by Cyrus C. Babb, a hydrographer with the USGS.

546. RIVER-BASIN BASE MAPS. 1912-50. 8 items. [NWCS, maps and plans]

The areas covered are the "Southwest River Basins," "Colorado River-Great Basin - Pacific Central Areas," "Colorado River Valley Surveys," and "Roseau River Valley."

547. CONTOUR MAP OF THE STORAGE RESERVOIR OF THE BIG HORN CANYON IRRIGATION AND POWER COMPANY. 1916. 1 item.

A blueprint map showing a segment of the Big Horn River in Wyoming and Montana and a detailed contour map of a small section of the river located on the Crow Indian Reservation. There is also a table giving the calculated storage area between the contours. The map was compiled by the company and submitted to the Billings, Montana,

Land Office in 1917. The map is marked "Exhibit J(1)., Duplicate." It is not known how the map became part of the records of the USGS. This map is filed with the textual records.

548. MISCELLANEOUS WATER RESOURCES DIVISION MAPS. ca. 1918-78. 10 items. [NWCS, maps and plans]

The maps are arranged as follows: low-water-table contour map of the sump area in the Closed Basin of the San Luis Valley, Colorado, 1946, with a transmittal letter; map to accompany a report "The Live Stock Industry and Grazing Conditions in Arizona," 1918, with textual material; water-level change maps showing locations of observation and irrigation wells, and irrigations wells used as observation wells, Utah, about 1962; a map titled "South Lake Tahoe Folio: Flood and related Debris Flow Hazards Map," 1978; and a "Map of the Platte-Republican Divide Area, Nebraska," showing contours of the water table and depth to water below the land surface, 1948.

549. ADMINISTRATIVE MAPS. 1927-69. 11 items. [NWCS, maps and plans]

Six of the maps show district boundaries and locations of field offices (1927-48). The remaining maps, titled "United States Water Resources Development" (1958 and 1969), show surface water and related land-resources development completed or under construction.

550. MAPS OF THE TENNESSEE RIVER BASIN. 1933. 3 items. [NWCS, maps and plans]

Maps titled "Mineral Resources of the Tennessee River Basin and Adjacent Areas" and "Tennessee River Basin." The second map shows locations of river-gaging stations, principal dam sites, and locations of constructed power dams.

551. MAP OF RIVER-MEASUREMENT STATIONS IN GEORGIA. 1940. 1 item. [NWCS, maps and plans]

A blueprint map titled "River Measurement Stations Operated by the Atlanta District, U. S. Geological Survey in Cooperation with [the] Georgia Division of Mines, Mining, and Geology and other Federal Agencies as of December 31, 1940."

552. MAP SHOWING THE NORMAL ANNUAL PRECIPITATION FOR COLORADO. 1931-60. n.d. 1 item. [NWCS, maps and plans]

This oversized map is at 1:500,000.

553. HYDROLOGIC-INVESTIGATIONS ATLAS MAPS. 1954-96. approx. 780 items. [NWCS, maps and plans]

The maps are numbered from HA-1 to HA-739. Some maps are bound or stapled into sets. Most of the maps are folded.

554. HYDROLOGIC UNIT MAPS. ca. 1974-90. 63 items. [NWCS, maps and plans]

Arranged alphabetically by State. Some States are grouped by region.

The maps show regional, subregional, and cataloging unit boundaries. Most of the maps are folded.

555. WATER-RESOURCES INVESTIGATION REPORT MAPS. ca. 1976-87. 54 items. [NWCS, maps and plans]

The maps are numbered from WRI 76-77 to WRI 86-4079. Some of the maps related to waste disposal in the State of Washington. Most of the maps are folded.

Related Water Resource Investigation Reports are described in entry 424.

556. INDEXES TO WATER RESOURCES INVESTIGATIONS. 1976-79. 45 items. [NWCS, maps and plans]

Arranged alphabetically by State. Indexes to reports, maps, and other USGS publications.

*Surface Water Branch, 1904-63*

Stream gaging, the original and basic function of the Surface Water Division (later Branch), began as part of the work if the Irrigation Survey in 1888, but was not mentioned specifically in its authorization. The Irrigation Survey was abolished in 1890. Frederick H. Newell joined the Topographic Branch as a topographer and continued thereafter some limited work in stream gaging. The act of August 18, 1894 (28 Stat. L., 398), appropriated funds specifically for stream gaging. Under the Irrigation Survey the collection of data on streamflow was carried out only in the Western States. In the 1890's, in response to serious flooding and concerns about the availability of water for municipal purposes, stream-gaging stations were established in several Eastern States and the District of Columbia.

In 1902 the Division of Hydrography was given branch status as the Hydrographic Branch. A Division of Hydrography conducted the stream-gaging work for the new Branch, which in 1906 became the Water Resources Branch. In 1907 the Division of Hydrography was renamed the Surface Water Division. By 1920 the USGS had entered into cooperative agreements with the Bureau of Reclamation, the Office of Indian Affairs, the National Park Service, the Weather Bureau, the Forest Service, the Office of the Chief of Engineers, and many States to conduct stream-gaging work and share data.

557. CENTRAL CLASSIFIED FILES. 1950-63. 6 ft.

Arranged according to the same subject-numeric classification scheme used for the central classified files, entry 52, and thereunder roughly chronologically. The file classifications are: Accounting, Committees, Communications, Education, Equipment and Supplies, Information, Meetings, Organization and Management, Personnel, Programs and Plans, Records, Reports and Statistics, Reproduction, Transportation, Water - General, and Water - Surface.

Memorandums, reports, correspondence, circulars, minutes of meetings, pamphlets, handwritten notes, newspaper clippings, printed articles and other publications, copies of Survey Orders, manuscript contributions to "Water Resources," the Division newsletter (1955-61), completed work-proposal and personnel-action forms, statistical tables and summaries, graphs, diagrams, and other records concerning the administration, policies, and programs of the Surface Water Branch. The primary subject areas concern appropriations and allotments, publications, personnel matters, and Division and Branch research.

Of particular interest are the "Organization and Management" files that document the reorganization of the Water Resources Division in 1956. Also included are agendas, programs, and reports of meetings of the "Speaker's Club" (1956-61); applications, lecture outlines, and study guides relating to courses given by the USGS and other Federal agencies and institutions; and photographic prints of equipment used by the Branch.

Other records relating to specific program areas are in the Central Classified Files of the Division (entry 414) and in records concerning the Branch's specific programs and projects.

558. RECORDS CONCERNING STUDIES OF THE OHIO RIVER BASIN. 1904-17. 2 ft.

Arranged by type of record.

Correspondence, memorandums, reports, statistical tables and summaries, handwritten notes, lists of illustrations, maps, newspaper clippings, published reports, and other records concerning studies of the Ohio River and its tributaries for the "Ohio River Special Paper," which was "to preserve and present, in available form, the many long-time records of gage heights collected by the Army Corps of Engineers, the Weather Bureau and others." Includes 17 field notebooks that contain data on runoff, discharge, gage heights, and precipitation; columnar sheets showing gage

heights, dating from 1938; reports relating to droughts, forest conditions, and rainfall and runoff conditions; 4 in. x 6.5 in. reference cards concerning gage-height data published between 1872 and 1907 (each card gives the gage location, ownership of gage, and duration and publisher of record). Also contains photographic prints of rock carvings ("Indian picture rocks") at Smith's Ferry, Pennsylvania, Wellsville, Ohio, and Jackson County, Ohio; and photographs of Water Works Gage at Cincinnati, Ohio, and the Chattanooga and Tennessee Rivers Power Company's plant. An envelope contains a rock from the bottom of the Ohio River at Smith's Ferry, as an example of those on which picture writings were made by the Indians. The files do not contain a copy of the "Special Paper."

559. SCRAPBOOK RELATING TO FLOODS. 1912-14. 2 in. 1 vol.

Arranged in rough chronological order; the front of the volume contains a table of contents.

Includes newspaper clippings, pamphlets, publications, reports, transcripts of articles from newspapers, and congressional documents relating to floods and flood prevention. Among the specific rivers mentioned are the Mississippi, Scioto, Miami, Dayton, and Ohio. Of particular interest are the records concerning the Ohio flood of March and April 1913. The scrapbook appears to have been compiled by Albert H. Horton, District Engineer in charge of surface-water investigations in the Ohio River Basin.

560. RECORDS OF THE PLANS AND OPERATIONS SECTION CONCERNING GAGING STATIONS. 1928-52. 15 in.

Arranged by subject, and thereunder chronologically.

Chiefly statistical summaries and tables, but also includes correspondence, memorandums, circulars, handwritten notes, lists of suggested gaging stations, and other records relating to estimates and allotments for the cost installation, operation, and maintenance of gaging stations, recommendations for new stations, and the status of existing stations.

561. GENERAL CORRESPONDENCE AND RECORDS OF THE PLANS AND OPERATIONS SECTION. 1947-60. 5 ft.

Arranged chronologically by year, and thereunder when appropriate by subject or State.

Correspondence; memorandums; statistical tables and summaries; reports; circulars; completed allotment-ledger forms, "allotment advice forms," "cooperative agreement transmittal forms" (1957-60 only), and "program description forms"; vouchers; maps; plats; computer-printout sheets; and other records regarding the obligations, appropriations, and allotments for cooperative and noncooperative programs of the Branch, and its district and field offices; proposals and recommendations for research and development; and the installation and maintenance of gaging stations. Cooperative programs documented are those for the Bureau of Reclamation, Army Corps of Engineers, Federal Interagency River Basin Committee, Missouri River Basin Committee (1953), and the Northeastern States for flood investigations (1955-56).

562. DATA SHEETS FOR STANDARD CURRENT METERS. ca. 1923-62. 15 in.

Arranged in two sets by the serial number assigned to each meter.

Chiefly "rating curve" and "observations and rating curve" charts, "observation sheets," and "comparisons of ratings" forms completed by the National Bureau of Standards. The forms variously show the type of meter, manufacturer, condition of the meter, method of rating, numerical and charted test results, and date and test number.

Also included are transmittal forms describing meters being shipped, which give the title of the agency that owned the meter, correspondence and memorandums. Most of the meters were the property of or used by the Army Corps of Engineers, Bureau of Indian Affairs, Fish and Wildlife Service, Department of Agriculture, California State Division of Water Resources, municipalities, irrigation districts, electric utilities, and research institutes.

563. RECORDS CONCERNING METERS AND METER RATINGS. 1930-56. 16 in.

Arranged by subject.

Correspondence, reports, statistical tables and summaries, handwritten notes and calculations, diagrams, graphs, photographic prints of meters, and other records concerning the cost, design, and use of meters; observation and rating curves; Branch recommendations regarding the use of certain meters; and other data for current meters. Pygmy Current Meters, Miniature Current Meters, Ice Experimental Meters, Ott Meters, and Experimental "AA"-Type Current Meters are discussed in the records.

564. OFFICE FILES OF JOSEPH VAN BRUNT WELLS, CHIEF OF THE SURFACE WATER BRANCH. 1949-59. 10 in.

Three general files precede nine files arranged by subject.

Chiefly correspondence and memorandums, but also includes newspaper clippings, minutes of meetings and other records relating to personnel matters, activities of professional staff members, suggestions submitted by employees for improving the Branch, and personal activities of Joseph Wells. Several files contain correspondence, memorandums, minutes of meetings, copies of citations, completed personnel-history forms, and forms for the "Report of Compensation Advancement in Recognition of Superior Achievements" that relate to Incentive and Honor awards for the Branch staff.

565. PHOTOGRAPHS RELATING TO A GEOLOGICAL SURVEY OF THE GREEN AND COLORADO RIVERS. 1914, 1915, 1921. 2 albums. 2.25 in.

Arranged by agency assigned number. All photographs are captioned and dated. Each album is accompanied by hand-drawn maps showing where the photographs were taken. This is series GC (NWCS, still pictures).

Black and white photographs taken by Eugene C. LaRue, a hydraulic engineer with the USGS, and others during a 1921 survey down the Green and Colorado Rivers from the town of Green River, Utah to Marble Canyon, near the site of the proposed Lees Ferry dam. A large number of the photographs show the proposed location of a major dam and power station at Lees Ferry. Other photographs include panoramic views of the town of Green River, distant mountains, the Colorado River and adjacent plateaus, tributary streams, and Rainbow Bridge; an Indian cliff house, photographs, and artifacts; and the survey party traversing rapids and in camp.

566. RECORDS CONCERNING STREAM-GAGING PROCEDURES, OPERATION, AND PROJECTS. 1920-39. 1 ft.

Arranged by subject.

Correspondence, memorandums, reports, statistical tables and summaries, graphs, plats, copies of legislation, publications, and other records concerning the accuracy of stream-gaging procedures and stream-flow records;

construction, operation and maintenance of stream-gaging stations; and the measurement of stream and flood flow. The Colorado, Coosa, San Juan, Deschutes, Mouse (Souris), Columbia, and Snake Rivers are mentioned by name. Also included is information relating to cooperation with other Federal agencies, States, municipalities, water districts, and research institutions on stream-gaging projects; the New England floods of 1927; a report by Joseph T. Pardee, about 1927, on the "Geology of Damsites on Skagit and Sauk Rivers, Washington"; and correspondence and other records concerning the work of the Run-Off Committee of the Boston Society of Civil Engineers (1920-23).

567. RECORDS CONCERNING GAGING PROJECTS ON STREAMS CONTIGUOUS TO THE UNITED STATES AND MEXICO. 1925-33. 2 in.

Arranged chronologically.

Correspondence, memorandums, reports, press releases, vouchers, statistical summaries, handwritten notes, plats, and other records concerning stream-gaging projects and seepage investigations on the water boundary between the United States and Mexico. The funds for these projects were allotted by the American sections of the International Water and Boundary Commissions. Includes information relating to the distribution of funds; coordination of stream-gaging work with Mexico; and the construction, operation and maintenance of gaging stations in boundary waters.

568. REPORTS AND OTHER RECORDS SENT TO THE TECHNICAL STANDARD SECTION CONCERNING THE HIGHWAY PROGRAM. 1940-62. 6 in.

Arranged alphabetically by State and thereunder alphabetically by stream or river.

Chiefly reports, with statistical tables and summaries, plats, and diagrams which discuss flood-flow characteristics at proposed bridge sites in Minnesota, South Carolina, and Washington. Also includes memorandums concerning technical and editorial comments and recommendations. These records may have once been part of a larger series and were retained as a sample.

569. FIELD NOTEBOOKS CONCERNING DRAINAGE AREAS IN THE UNITED STATES. ca. 1908-44. 10 in. 30 vols.

Arranged by drainage area and thereunder, when appropriate, by subject or type of data.

Annotated field notebooks of USGS engineers which contain compilations of drainage-area acreage, runoff, and water-power potential. The first nine volumes concern a study of runoff and horsepower in the United States, prepared for the Conservation Commission in 1908 and summarized in USGS Water Supply Paper 234, "Papers on the Conservation of Water Resources" (by Henry Gannett and others, 1909). Other field notebooks include information on drainage areas of the Ohio River Basin (ca. 1909-16); Santa Ynez River (1924); Salton Sea (1932); Potomac River Basin (1920, 1930); Delaware and Raritan River Basins (1922-44); and Kanawha River Basin (1935-36).

The related maps are described in entry 570.

570. MAPS OF THE DELAWARE, POTOMAC, AND NEW-KANAWHA RIVER BASINS. ca. 1920-22. 2 in.

Arranged by river basin. These maps are filed with the textual records.

Chiefly quadrangle maps. Some of the maps are annotated. Also included is a 1922 chart showing stream-gage readings from sites in the Delaware River Basin.

571. RECORDS CONCERNING THE NEW-KANAWHA RIVER STUDIES. ca. 1933-36. 15 in.

Arranged by subject or type of record.

Statistical tables and summaries, reports, correspondence, memorandums, copies of testimony, copies of "Bill of Complaint," maps, handwritten notes, newspaper clippings, and other records concerning the data collected by the Surface Water Division on the New-Kanawha River at the request of the Federal Power Commission. The USGS was asked to furnish expert testimony regarding stream flow at certain points in the New-Kanawha River Basin for the court case "United States vs. Appalachian Electric Power Company." The U.S. Government sought to compel the power company to procure a Federal Power Commission license for a power project on the New River, in the vicinity of Radford, Virginia.

Included in the records are drainage and stream-flow measurements; gage-height records; and a notebook for June-July 1936, maintained by Charles H. Pierce, a Senior Hydraulic Engineer with the Division, who compiled much of the data for this case and appeared as an expert witness.

572. REFERENCE FILE CONCERNING HYDRAULIC RESEARCH AND DEVELOPMENT. ca. 1930-49. 7 ft.

Arranged by subject.

Correspondence, memorandums, drafted and final reports, statistical tables and summaries, circulars, bulletins, pamphlets, brochures, printed articles, publications, newspaper clippings, handwritten notes, annotated manuscripts, diagrams, graphs, plats, maps, price lists for equipment, and other records. These materials appear to have been maintained as a general-reference file on research and development by the USGS and other Federal agencies that related to hydraulics, particularly surface-water issues. Includes records on the projects of the National Hydraulic Laboratory of the Bureau of Standards and research proposals submitted by Surface Water Division members; the USGS Manual on stream-gaging procedures (Water-Supply Paper 888); research on the role of the engineer in discharge measurements by wading; and artificial controls, equipment, and structures used, recommended, or criticized by the Division. Also contains information on the scientific research in the Federal Government, including a series of essays on the origins and development of research in various agencies. Includes some photographic prints of USGS exhibits, artificial controls, and equipment.

573. RECORDS RELATING TO THE 1955 CONFERENCE OF THE SURFACE WATER BRANCH. 1955-57. 2 in.

Arranged by type of record.

Agendas, minutes, correspondence, and a copy of a speech by Arthur A. Baker, USGS Administrative Geologist, delivered to the Conference of Supervisory Personnel of the Surface Water Branch. The conference was held October 17 to 20, 1955, in Denver, Colorado.

*Ground Water Branch, 1890-1954*

In 1893-94 geologists Nelson H. Darton and Grove K. Gilbert began separate investigations of ground-water resources, partly in connection with their stratigraphic and structural studies of the High Plains and Rocky Mountains. The "investigation of underground currents and artesian wells in arid and semi-arid sections" was authorized by the act of August 18, 1894 (28 Stat. L., 398), that required the USGS to determine the Nation's water supply. Ground-water work was administered by the Geologic Branch's Division of Hydrography until 1902, when the Division became the Hydrographic Branch. The Eastern and Western Sections of the Branch's Hydrologic Division were merged in 1907 to form the Ground Water Division. An act of August 21, 1916 (39 Stat. L., 518), added to the Division's responsibilities the location, development, and protection of watering places on the desert and arid portions of the public lands. The Division was renamed the Ground Water Branch in 1949.

574. ADMINISTRATIVE CORRESPONDENCE FILES. 1919-43. 59 ft.

Arranged in four time sequences: 1919-1939; 1940-1941; 1942; and 1943; and thereunder alphabetically by State, subject, or surname of individual. A list of file-title headings appears as Appendix 30 in this inventory.

Chiefly correspondence, memorandums, and reports (weekly, bi-weekly, and monthly), but also includes statistical tables and summaries, copies of cooperative agreements, minutes of meetings, critical reviews of manuscripts, circulars, handwritten notes, bound reports, vouchers, completed contracts, newspaper clippings, advertisements, graphs, charts, plats, maps, and other records concerning the administration, policies, programs, and operations of the Ground Water Division and its district and field offices. The records show cooperation with the National Park Service, Veterans Administration, Bureau of Mines, Army Corps of Engineers, other Federal agencies, State agencies, and organization such as irrigation districts. The records document the Branch's participation in various projects, such as the Columbia Basin Irrigation Project, Delaware River Drainage Basin Project, Pecos River Joint Investigation, Rio Grande River Joint Investigation, investigations in the Platte River Valley, and various soil erosion projects.

Of particular interest are completed interview forms (boxes 27, 28, and 93) compiled by Branch staff members of Federal government and nongovernment experts on subjects such as ground-water conditions, water supplies, and wells. The forms give the date, name and address of the interviewee, name of the staff member who conducted the interview, information and advice offered, publications cited, and sometimes references to related correspondence.

For later administrative correspondence see entry 575.

575. ADMINISTRATIVE CORRESPONDENCE FILES. 1944-53. 33 ft.

Arranged in three parts: 1944-47, in which each year is divided into two segments, alphabetically by State or Territory, and alphabetically by subject or surname of individual; 1948-53, arranged alphabetically by State or Territory; and 1948-53, arranged alphabetically by subject or surname of individual. A list of file titles appears as Appendix 31 in this inventory.

Chiefly correspondence, memorandums, and reports, but also includes statistical tables and summaries, circulars, handwritten notes, bound reports, vouchers, completed employment-compensation forms, completed contracts, newspaper clippings, advertisements, graphs, charts, plats, maps, and other records, concerning the administration, policies, programs, and operations of the Ground Water Branch and its district and field offices. Included are records documenting the Branch's participation in Alaska ground water research, the Colorado River Basin Project, Missouri River Basin Project, Navajo Indian Reservation Project, Passanauquiddy Tidal Power Project, Upper Embayment Mississippi Investigation, and Project Mahoney (to prepare a report demonstrating the need for an accelerated program

of research in the Nation's water resources). These records also show cooperation with other USGS units, such as the Pacific Northwest Water Resources Council; other Federal agencies, especially the Bureau of Reclamation, Army Corps of Engineers, Bureau of Land Management, Bureau of Indian Affairs, Fish and Wildlife Service, and Federal Power Commission; interagency units such as the Arkansas-White-Red Interagency Committee, Interagency River Basin Committee, and Interagency Committee on Hydrologic Data; States; municipalities; water districts; independent bodies, such as the Conservation Foundation; and professional associations.

Of particular interest is a file containing correspondence, statements, copies of articles and other records (1947 - Congressional Hearings, Material) gathered to support an appropriation for ground water investigations. The appropriation had been dropped from the 1948 Interior Department appropriation bill and replaced with a clause in the "gaging streams" section prohibiting the USGS from making any more ground-water investigations.

The series also includes correspondence, memorandums, reports, programs, agendas, minutes, conference papers, and other records that relate to meetings, seminars, and conferences in which the Branch participated including the United Nations' Scientific Conference on the Conservation and Utilization of Resources.

For earlier administrative correspondence see entry 574.

576. REFERENCE FILE OF DAVID GROSH THOMPSON. 1921-38, 1940-41. 6 in.

Arranged by subject.

Correspondence, reports, statistical tables and summaries, graphs, handwritten notes and statistical calculations, pamphlets, printed articles, and other records (many of which were compiled by Thompson) that relate to analyses of hydrologic problems, particularly concerning ground water and artesian wells. Also includes annotated drafts of papers written by Thompson, and correspondence and memorandums concerning ground-water laws.

577. CORRESPONDENCE AND OTHER RECORDS CONCERNING DAVID GROSH THOMPSON'S STUDY OF THE UTILIZATION OF GROUND AND SURFACE WATER IN THE UNITED STATES. 1930-33. 2 in.

Arranged, for the most part, alphabetically by State; followed by a general file arranged roughly chronologically.

Chiefly correspondence between Thompson and State officials and interested specialists that relates to requests for information on the consumption of ground and surface water in the United States, for use by Thompson in several reports and a professional paper. Also included are handwritten notes, publications, a list of correspondents, and a statistical table of the Public Works Supply Systems in the United States, compiled by Thompson.

For much of the data received by Thompson see entry 578.

578. RECORDS CONCERNING PUBLIC WATER SUPPLIES IN THE UNITED STATES. ca. 1930-39. 5 in.

Arranged for the most part alphabetically by State; the last file is arranged by type of record.

Chiefly statistical tables and summaries, maps, and publications compiled by David G. Thompson for use in his study of the utilization of ground and surface water in the United States. Also includes copies of "Waterworks News-Record" for June 13, 14, and 15, 1939, printed tables, and a few pieces of correspondence. Much of the data was furnished by States and interested specialists, at Thompson's request; see entry 580.

579. RECORDS OF DAVID GROSH THOMPSON CONCERNING THE COMMITTEE ON UNDERGROUND WATERS OF THE AMERICAN GEOPHYSICAL UNION. 1932-42. 3 in.

Arranged alphabetically by surname of correspondent, and thereunder chronologically.

Correspondence, circulars, handwritten notes, and reports concerning Thompson's participation in the American Geophysical Union, as chairman of its Committee on Underground Water. Includes information on ground-water studies, compilation of an international bibliography by the committee, publications, committee membership, and meetings and symposiums.

580. RECORDS CONCERNING USGS RESPONSES TO GROUND-WATER-RELATED INQUIRIES. ca. 1939-51. 17 in.

Arranged alphabetically by State. Two files arranged by subject are at the end of the series.

Chiefly correspondence sent to district officials from drilling companies, private individuals, and State and municipal officials acknowledging information supplied or services rendered by the USGS. This correspondence was gathered by the district offices and sent to the Chief Hydraulic Engineer in response to a request by the House Appropriations Subcommittee in February 1947 for the names and addresses of well drillers who have requested information from the USGS, the nature of the information requested, and complimentary letters regarding ground-water investigations. USGS district officials continued to send this type of correspondence to the Washington Office until 1951. Also contains interdepartmental correspondence and memorandums, address lists of well drillers, and other records. A general file includes correspondence sent to the Washington Office from foreign officials, Federal agencies, private firms, and individuals concerning cooperation, and an file of "acknowledgments" for 1946 that shows the receipt of publications or information by public officials or private individuals.

581. "MONTHLY REPORTS OF SIGNIFICANT HAPPENINGS." July 1953 - Dec. 1954. 10 in.

Arranged chronologically by month, and thereunder alphabetically by State.

Memorandums and narrative reports that describe significant monthly events, such as meetings, status of projects, personnel actions, and professional activities, in the district and field offices. A list at the front of each file gives the State and date the reports were received from June to November 1954.

582. PROJECT RECORDS FROM DISTRICT AND FIELD OFFICES. 1942-48. 10 in.

Arranged alphabetically by State or Territory, and thereunder chronologically.

Copies of "Summary Report on Investigations in Progress" that give project title, date started, percentage statistics of field work completed, computations and reports completed, and remarks. These reports are for varying lengths of time.

583. MONTHLY PROGRESS REPORTS. 1914-42. 4 ft.

Arranged chronologically.

Copies of monthly reports containing narrative and statistical tables and summaries sent to the Chief Hydraulic Engineer from the Ground Water Division concerning projects, publications, personnel action, and professional activities of staff. Also includes copies of "Summary Report on Investigations in Progress." Includes district and field-office reports, and individual service reports, dating from the 1930's.

584. RECORDS CONCERNING PERSONNEL. 1943-51. 1.5 ft.

Arranged alphabetically by surname of individual.

Chiefly correspondence and memorandums, but also includes reports, copies of itineraries, completed personnel forms, and other records concerning various ground-water personnel. Included is information on field-work and research projects, preparation of papers and reports, professional activities, and personnel matters. This appears to have been a part of the administrative correspondence; for similar information on other ground-water personnel see the Administrative Correspondence files, 1919-53, described in entries 574 and 575.

585. RECORDS CONCERNING MINERAL WATERS IN THE UNITED STATES COLLECTED BY ALBERT CHARLES PEALE. ca. 1890-1904. 1.5 in.

Completed questionnaires arranged chronologically, accompanied by a few pieces of correspondence and reports.

Primarily completed questionnaires, dated 1899 to 1901, sent by the Division of Mineral Resources to the owners of various springs, that give the name, location, and owner of spring, the estimated number of gallons sold in 1899 and 1900 (about half the forms give data for 1899 and the remainder cover 1900), and whether or not the spring was used as a resort. The correspondence and reports concern the chemical analyses of particular springs. These records were collected by Peale, a geologist who served with the "Hayden Survey" (1871-79), the USGS (1883-98), and the U.S. National Museum (1898-1914).

586. RECORDS CONCERNING MINERAL WATERS IN THE UNITED STATES. ca. 1895-1930. 8 in.

The records are arranged alphabetically by State, followed by two general folders.

Chiefly advertising pamphlets, brochures, and broadsides that relate to mineral-spring water and resort springs, some of which include chemical analyses of the water and are annotated. Also includes correspondence and reports concerning the chemical analyses of spring water, a typescript list of mineral springs in the United States for 1906 compiled by the Bureau of Chemistry (Department of Agriculture), some reprinted articles regarding mineral springs and resorts in the United States, and other records.

587. RECORDS RELATING TO SALINITY STUDIES IN THE CONNECTICUT RIVER BASIN. 1934-39. 15 in.

Arranged by type of record.

Progress and other reports, statistical summaries and tables, graphs, diagrams, drawings, correspondence, plats, printed articles, tide tables, State publications, and other records relating to studies sponsored by the Works Progress Administration and the Connecticut State Water Commission.

588. REFERENCE FILE ON THE SALINITY OF WATER. ca.1907-36. 2 in.

Arranged by type of record.

Primarily printed material that concerns the salinity of ocean water. Also includes a typed report, "Memoranda on the Composition of Sea Water," which contains reprints and synopses of articles and statistical summaries dated 1873 to 1912. The material in this memoranda appears to have been collected by Richard B. Dole. Also includes a few items concerning mineral springs in the United States and Europe.

589. "DIARIES" OF TRAVEL BY OSCAR EDWARD MEINZER. 1938, 1939, 1944. 3 in. 2 binders and 1 folder.

Arranged by trip and thereunder in rough chronological order.

"Diaries" that include daily entries, itineraries, correspondence, memorandums, names and addresses of people met on the trips, newspaper clippings, photographic prints, maps, and other records concerning Oscar E. Meinzer's official travel to the Western States, June 5 to July 11 and August 27 to October 9, 1938; a meeting in New York City, December 29, 1938, to January 1, 1939; Southern States, October 6 to November 21, 1939; and Southeastern States, October 5 to 28, 1944.

590. RECORDS CONCERNING THE VOLUME ON "HYDROLOGY" OF THE NATIONAL RESEARCH COUNCIL'S "PHYSICS OF THE EARTH" SERIES. 1937-43. 2 ft.

Arranged by chapter.

Correspondence, annotated drafts, lists of illustrations, diagrams, plats, photographic prints, and handwritten notes relating to the fifteen chapters of the "Hydrology" volume (IX) that is part of the National Research Council's series on the "Physics of the Earth," published by McGraw-Hill. Oscar E. Meinzer edited this volume.

591. RECORDS CONCERNING OSCAR EDWARD MEINZER'S PARTICIPATION IN PROFESSIONAL ORGANIZATIONS. 1937-48. 17 in.

Arranged alphabetically by subject or surname of correspondent, and thereunder roughly chronologically or alphabetically.

Correspondence, memorandums, circulars, programs, agendas, minutes of meeting, reports, membership and mailing lists, and other records relating to Oscar E. Meinzer's participation in the American Geophysical Union, particularly its Section of Hydrology, the Commission on Subterranean Water of the Association of Scientific Hydrology of the International Union of Geodesy and Geophysics, and their various committees and commissions. The records pertain to Meinzer's role as a representative of the USGS and as a member of these organizations, and contain information relating to meetings, conferences, and activities of the organizations, publication of papers, elections, membership drives, financial matters, and travel. Also includes statistical summaries outlining the cooperative funds of the Ground Water Division from 1908 to 1938, and correspondence relating to Meinzer's paper, "Our Water Supply," which was read before the Washington Academy of Sciences in March 1937, and later reprinted in many journals. Some of the records are in French and Spanish.

592. CIRCULARS OF THE HYDROLOGY SECTION OF THE AMERICAN GEOPHYSICAL UNION. 1931-33. 0.5 in.

Arranged chronologically.

Circulars issued by the Section concerning its formation, organization, purpose, membership, and interest in the publication of hydrological papers and bibliographies.

Oscar E. Meinzer served as Chairman of the Section during these years.

593. CORRESPONDENCE AND OTHER RECORDS RELATING TO THE INTERNATIONAL COMMITTEE ON UNDERGROUND WATER. 1936-46. 5 in.

Arranged alphabetically by country or geographic area.

Oscar E. Meinzer's correspondence with hydrologists in other countries concerning the International Committee on Underground Water (of the International Association of Scientific Hydrology, a part of the International Union of Geodesy and Geophysics). Includes requests for delegates to the Committee; recommendations for conference topics and papers; and information concerning Meinzer's travel abroad, international hydrologists' visits to the United States, and the exchange and publication of papers. Also contains some mailing lists of scientists interested in the study of ground water for Africa, Australia, Great Britain (in the England folder), the Soviet Union (in the Russia folder), and Sweden; a list of papers to be presented by the Section of Scientific Hydrology of Japan at the 1939 General Assembly of the International Union of Geodesy and Geophysics; and a report on the "Economy of Groundwater" by M. Wegenstein, a Swiss engineer. Some of the correspondence is in German, French, and Spanish.

594. RECORDS RELATING TO THE WASHINGTON ASSEMBLY (MEETING) OF THE INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS, 1939. 1936-39. 3 in. 2 binders.

Arranged in two binders, and thereunder according a table of contents.

Reports, programs, minutes of meetings, circulars, copies of papers, statutes (by law), lists of delegates, and other records concerning the Seventh Assembly of the International Association of Scientific Hydrology, and its Commission on Subterranean Water, of the International Union of Geodesy and Geophysics held in Washington, D.C., September 4 to 15, 1939. Some of the records are in French, Spanish, and German.

For related records see entry 598.

595. MISCELLANEOUS RECORDS CONCERNING THE ASSEMBLY (MEETING) OF THE INTERNATIONAL ASSOCIATION OF SCIENTIFIC HYDROLOGY, OSLO, NORWAY, 1948. 1937, 1947-48. 1 in. 1 binder.

Arranged by type of record.

Circulars, correspondence, copies of papers, lists of delegates, and a mailing list concerning the Eighth Assembly of the International Association of Scientific Hydrology (IASH), held in Oslo, Norway, August 19 to 28, 1948. Also includes a list (in French) of members of the IASH, statutes (bylaws) of the International Union of Geodesy and Geophysics, and a 1937 report (1 page) of the Commission on Underground Water.

596. CORRESPONDENCE AND OTHER RECORDS CONCERNING THE ASSEMBLY (MEETING) OF INTERNATIONAL ASSOCIATION OF SCIENTIFIC HYDROLOGY, OSLO, NORWAY, 1948. 1947-48. 7 in.

Arranged alphabetically by country.

Oscar E. Meinzer's correspondence with hydrologists in other countries concerning the Assembly of International Association of Scientific Hydrology (IASH), held in connection with the International Union of Geodesy and Geophysics, in Oslo, Norway, August 19 to 28, 1948.

Includes requests for papers, recommendations for topics of papers, and information concerning publication of the papers. Also contains copies of papers, accompanied by plats, diagrams, and statistical tables; circulars; handwritten notes; and copies of the proposed program for the 1948 Assembly and IASH's statutes (bylaws). Some of the correspondence and papers are in French and German.

597. PROGRAMS AND CIRCULARS RELATING TO INTERNATIONAL GEOLOGICAL CONGRESSES. 1933, 1938-39. 0.5 in.

Arranged chronologically.

Programs for the International Geological Congresses in 1933 in Washington, D.C. (16th Session), and in Amsterdam (scheduled for 1938, but not held); a list of registrants for the 1933 Congress; and circulars concerning the 1940 Congress in London (18th Session, but not held until 1948).

598. MISCELLANEOUS FILES. 1939, 1947-48. 0.5 in.

Arranged roughly chronologically, and thereunder by type of record.

Chiefly information on the 1939 and 1948 assemblies of the International Association of Scientific Hydrology, and its Commission on Subterranean Water of the International Union of Geodesy and Geophysics that includes correspondence, circulars, tentative proposals for meeting topics, lists of members and invitations to delegates, mailing lists, and copies of George W. Musgrave's paper on the infiltration of ground water.

For related records see entry 594.

*Quality of Water Branch, 1913-63*

In 1901 Frederick H. Newell expanded hydrographic investigations to include quality-of-water studies concerned with the pollution of municipal water by sewage. A Division of Hydro-Economics was established in 1903 within the Hydrographic Branch to study the quality, composition changes, pollution, and economic potential of water. In 1907 the Division was renamed the Quality of Water Division. In 1910 analysis of polluted water was transferred to the Public Health Service. The Division remained responsible for analyzing the mineral composition of surface and ground waters to determine their value for domestic and industrial use. The Division was merged with the Ground Water Division in 1910 and 1918. The Quality of Water Division's Washington office closed in 1908; when the Division regained its separate organizational identity, most of the laboratory work was done under contract. The Quality of Water Division was restyled a Branch in 1949.

599. CENTRAL CLASSIFIED FILES. 1941-63. 21 ft.

Arranged according to the same subject-numeric classification scheme used for the Central Classified Files, entry 52, and thereunder roughly chronologically. The file classifications used for these files are: Accounting, Budget, Committees, Education, Equipment and Supplies, Forms, Information, Inventions, Map Distribution, Mapping Techniques, Meetings, National Defense, Organization and Management, Personnel, Programs and Plans, Publications, Public Relations, Records (cross reference sheet only), Reports and Statistics, Research, Scientific and Professional Organizations, Security, Sedimentation and Erosion, Transportation, Vehicles, Water (General), and Water (Quality).

Correspondence, memorandums, progress and technical reports, statistical tables and summaries, handwritten notes, bulletins, pamphlets, printed articles and other publications, monthly and quarterly reports, copies of bids and contracts, purchase orders, completed requisition forms, price lists, newspaper clippings, plats, maps, and other records concerning the administration, operation, policies, and programs of the Branch. A large portion of the records comprise "Program and Plan" files that document cooperative projects with other agencies, such as the Bureau of Reclamation and Soil Conservation Service, interagency River Basin Commissions and Committees; States; and institutions. Other subject areas concern estimates, appropriations, allotments and expenditures; publications; personnel matters; and equipment and supplies. Of particular interest are the records relating to Saline Water Research (Programs and Plans files).

Also includes programs, agendas, minutes of meetings, conference proceedings, annotated papers, lists of attendees, and other records relating to Branch, interagency, and professional meetings and conferences. The majority of records date from 1952.

600. BIENNIAL AND QUARTERLY REPORTS OF DISTRICT AND RESEARCH OFFICES. 1949-58. 5 in.

Arranged by type of report as described below.

Quarterly "Chemical Quality" analysis reports (1955-58), which give number of samples analyzed and "total adjusted complete analyses" for USGS projects, other Federal agencies, and States; biennial statistical and narrative reports (1955-58) summarizing Division investigations in progress or completed stating source of funds, estimates of personnel used, percent of project completed, and publication plans; quarterly statistical reports (1949-58) on sediment analyses completed for cooperative projects that show the project name, number of bottles analyzed, and total analyses made for concentrated and particle-sized, suspended-sediment or depth-integrated samples.

601. RECORDS CONCERNING FIELD OFFICES AND LABORATORIES. 1939-52. 7 ft.

Arranged alphabetically by State, Federal agency, or subject, and thereunder roughly chronologically. A list of file titles appears as Appendix 32 in this inventory.

Chiefly correspondence and memorandums, but also contains reports, statistical tables and summaries, handwritten notes, completed water-analysis forms, cooperative agreements, copies of contracts, purchase orders, requisition forms, vouchers, blueprint floor plans and photographic prints of the Ohio Regional Laboratory, diagrams, plats, newspaper clippings, and other records, concerning the administration, operation, policies, and programs of the Branch's field offices and laboratories. The records include information on proposals and plans for projects; progress of field and lab work; allotments, appropriations, and expenditures; equipment and supplies; publications; personnel matters, and meetings of the Arizona Water Resources Council (Colorado River Basin File). Many of the Branch's projects were undertaken in cooperation with other units of the Water Resources Division and the USGS; Federal agencies, such as the Bureau of Reclamation, Fish and Wildlife Service; the Departments of the Army and Air Force; State agencies; and universities.

Also contains correspondence, memorandums, agendas, programs, lists of attendees, abstracts and copies of papers, and other records concerning participation in the professional meetings and conferences of the American Chemical Society and American Water Works Association. The Alaska-General file contains records dated 1918-50. Most of the remaining records date from 1946.

602. OFFICE FILES OF WILLIAM DENNIS COLLINS. 1913-46. 10 in.

Arranged alphabetically by subject, and thereunder roughly chronologically.

Correspondence, memorandums, reports, handwritten notes, copies of papers, pamphlets, printed articles and other publications, statistical tables and summaries, vouchers, one photographic print each of the Colorado River (near Grand Canyon, Arizona) and Grand Coulee Dam, and other records concerning Collins' participation in and supervision of water-quality studies. Primarily investigations of arsenic poisoning, industrial poisoning, tuberculosis (in cooperation with the Public Health Service), radioactivity, salinity of larger coastal rivers and tidal waters, and rainwater. Also includes an annotated manuscript from 1927 by Collins, and others, on the "Chemical Character of Waters of Rhode Island"; and information on Collins' professional activities during 1940 in the American Chemical Society and at the Eighth American Scientific Congress.

Collins served with the Surface Water Division until 1909 when he became the Food Investigation Chemist for the Bureau of Chemistry in the Department of Agriculture. In 1920 he rejoined the USGS as the Chief of the Quality of Water Division. He remained in that post until 1946.

603. CORRESPONDENCE AND OTHER RECORDS CONCERNING A COOPERATIVE STUDY OF DISSOLVED SOLIDS IN AND HARDNESS OF GEORGIA WATER. 1937-39. 2 in.

Arranged chronologically.

Primarily correspondence, but also includes statistical summaries, memorandums, and other records concerning a cooperative project with Georgia's Division of Mines, Mining, and Geology to investigate the public-water supplies. Part of the project involved a study, assisted by the State Department of Public Health, of the chemical character of the larger sources of public-water supplies. This was the first of a planned series of 48 studies by the Quality of Water Branch of all the public-water supplies of the United States.

604. RECORDS CONCERNING THE ST. FRANCIS RIVER SILT PROJECT. 1939-40. 1 in.

Arranged by type of record, and thereunder chronologically.

Correspondence, graphs depicting silt computations, memorandums, and other records relating to a stream-gaging and silt investigation of the St. Francis River, Missouri.

605. RECORDS CONCERNING A STUDY OF SEDIMENTATION AND QUALITY OF WATER IN THE MISSOURI RIVER BASIN. 1945-49. 8 in.

Arranged chronologically.

Chiefly correspondence and memorandums, but also includes progress and technical reports, statistical summaries, handwritten notes, newspaper clippings, publications, vouchers, maps, and other records relating to sediment and quality-of-water studies made in cooperation with the Missouri Basin Interagency Committee.

Includes information on research proposed and in progress, research data and analyses, installation and operation of sediment stations, personnel matters, allotments and appropriations, equipment, and supplies. The Missouri Basin Interagency Committee was established on May 5, 1945.

606. RECORDS RELATING TO LABORATORIES, SPACE, AND EQUIPMENT. 1945-46. 1 in.

Arranged by subject, and thereunder roughly chronologically.

Correspondence, completed requisition forms, purchase orders, statistical summaries, diagrams, and other records relating to space and equipment for the central and branch chemical and sediment laboratories, and the installation and operation of sediment-sampling equipment for a study of sedimentation and quality of water in the Missouri River Basin.

607. RECORDS RELATING TO THE MISSOURI BASIN FLUME CONTRACT. 1948. 1 in.

Arranged by type of record, and thereunder roughly chronologically.

Diagrams, completed bidding forms, memorandums, completed requisition forms, and some correspondence received from Paul C. Benedict, the district engineer at Lincoln, Nebraska, relating to the contract for the construction of a reinforced-concrete flume and gage well on the Middle Loup River, at Dunning, Nebraska.

608. RECORDS CONCERNING RESEARCH AND DEVELOPMENT. 1946-52. 2 in.

Arranged chronologically.

Memorandums, reports, correspondence, statistical tables and summaries, handwritten notes, completed "Abstract of Research and Development Projects" forms, printed articles, and other records relating to research and development in the Branch and its field offices. Includes information on estimates and allotments, distribution of funds, and proposed, recommended, and completed research projects.

609. INVENTORY FORMS AND INDEX CARDS CONCERNING PUBLISHED AND UNPUBLISHED ANALYSES OF SURFACE WATERS USED FOR IRRIGATION. 1947-48. 2 ft.

Divided into forms printed on 5 in. x 8 in. cards arranged by drainage area, and thereunder by name of river; and 3 in. x 5 in. cards arranged alphabetically by author, Federal or State agency, irrigation district, and others.

The first set of cards are completed "Inventory of Published and Unpublished Analyses of Surface Waters of Irrigation" forms that give name of drainage basin and stream, stream location, drainage area above station, duration of record, availability of drainage records, number of analyses, frequency of sampling, composite period, analytical values reported, reference number, remarks, and date and source of information. Some of the information dates from 1905. These forms were compiled for the Subcommittee on Hydrologic Data of the Federal Interagency River Basin Committee. The 3 in. x 5 in. cards give references to published and unpublished reports and data concerning surface waters for irrigation and the quality of those surface waters.

*Division of Power Resources, 1913-47*

During World War I the Water Resources Branch was made responsible for preparing a weekly report of the power production and consumption by the States. In 1918 the Division of Power Resources was established to continue the collection of those statistics and the preparation of periodic reports. The Division also provided engineers to conduct field investigations on behalf of the Fuel Administration. The Fuel Administration was created in 1917 to compile statistics on the production, distribution, and consumption of coal, and to devise plans for the conservation of power. The Division also gathered statistics for regions of the world relating to developed water power.

In 1936 the Federal Power Commission took over responsibility for compiling and distributing information about the production and consumption of power in the States. When the Division of Power Resources was abolished in 1945, the Water Utilization Division assumed functions relating to the collection of information about developed water power by the States and the compilation of an annual report based on the collected data.

610. RECORDS CONCERNING FEDERAL POWER COMMISSION PROJECTS. 1921-47. 5 ft.

A general file followed by files arranged numerically by project number (1 to 1854). These project numbers appear to have been assigned by the Federal Power Commission.

Chiefly correspondence and memorandums, but also includes USGS "Semiannual" and "Annual" reports to the Commission regarding stream-gaging field work; progress reports; statistical tables and summaries; copies of applications for permits and licenses sent to the Commission; copies of Commission agreements; diagrams; graphs; plats; and other records relating to USGS assistance in the review and approval of Commission projects. Most of the work completed by the USGS concerned investigations for the Commission relating to applications to construct water works, supervision over construction of stream-gaging stations by licenses, inspection of those stations, confirmation of licensee compliance in the maintenance of stream data, and supervision of the construction and operation of transmission lines.

611. MINUTES OF MEETINGS AND OTHER RECORDS CONCERNING THE FEDERAL POWER COMMISSION. 1921-29. 4 in.

Arranged chronologically.

Chiefly minutes of Federal Power Commission meetings, but also includes press releases, lists of applications for licenses, memorandums, and other records concerning the authorization, extension, and rejection of permits and licenses under the Federal Water Power Act of June 10, 1920 (41 Stat. L., 1063). Also included is a printed copy (1921) of the "Tentative Draft of Rules and Regulations for the Establishment and Maintenance of a System of Accounts of Licensees Under the Federal Water Power Act."

612. REPORTS AND CORRESPONDENCE. 1943-44. 18 pages.

Arranged chronologically.

Annual reports of the Division for 1943 and 1944; quarterly reports for January, March, and June 1944; and correspondence concerning publications of the USGS on water power.

613. REPORTS AND OTHER RECORDS CONCERNING DEVELOPED AND POTENTIAL WATER POWER AND TOTAL CAPACITY OF WATER WHEELS IN THE UNITED STATES. 1922-44. 2 in. 1 binder.

Arranged chronologically, with the exception of the last three items. A table of contents accompanies the records.

Statistical and narrative reports concerning the developed and potential water power in the United States (1922, 1925-30), and the capacity of water wheels at water-power plants in the United States (1931-41). Also includes statistical data relating to developed water power in the United States in 1908 that was published in USGS Water-Supply Paper 234, "Papers on the Conservation of Water Resources" (by Henry Gannett, and others, 1909); a statistical and narrative report (ca. 1940) on the total capacity of water wheels in the United States from 1869 to 1917; and a press release showing water-power development in the United States and Canada during 1940-44.

614. REPORTS AND PRESS RELEASES CONCERNING DEVELOPED AND POTENTIAL WORLD WATER POWER. ca. 1924-45. 3 in.

Arranged by subject or type of record, and thereunder chronologically.

Annual statistical and narrative reports and press releases concerning the developed and potential water power of the United States and the world. Some of the reports were issued by the Federal Power Commission.

615. REFERENCE FILE OF ALBERT HOWARD HORTON. 1918-32. 4 in.

Arranged by type of record.

Publications, statistical summaries, and handwritten notes concerning hydroelectric power and power potential in the United States. Includes bound copies of USGS Professional Paper 123, "A Superpower System for the Region between Boston and Washington" (by William S. Murray and others, 1921) and maps relating to the Northeastern Superpower Survey (one copy is annotated).

Horton was Chief of the Power Resources Division from 1919 to 1945.

616. RECORDS CONCERNING PRODUCTION OF POWER. 1919-28. 8 in. 5 binders.

Arranged in two sets of binders (1919-24 and 1924-28), and thereunder arranged by subject. A table of contents begins each set.

Reports, memorandums, correspondence, statistical tables and summaries, handwritten notes and calculations, diagrams, graphs, and other records concerning developed and potential hydroelectric power; consumption and cost of coal and oil; output of electricity in the United States; operation of power plants; generator capacity of public-utility power plants; and other subjects related to power production.

617. REPORTS CONCERNING PUBLIC UTILITY PLANTS. 1919-37. 10 in.

Arranged chronologically.

Statistical and narrative monthly and annual reports, including graphs, compiled by the Division concerning the production of electricity and consumption of fuel by public-utility plants in the United States. The Federal Power

Commission compiled the statistics for the monthly reports, beginning in July 1936, and those for the 1937 annual report.

Annual reports from 1920 to 1926 were published in USGS Water-Supply Paper 579, "Power Capacity and Production in the United States" (by Carroll R. Daugherty and others, 1928).

618. RECORDS CONCERNING DEVELOPED WATER POWER OF THE UNITED STATES. 1920-40.  
2 ft.

Arranged alphabetically by State or Territory, and followed by one general file.

Chiefly copies of "Report on Developed Water Power" that give the name of stream and power plant, location and operator of the plant, number of water wheels and generators, use of power, and average number of hours the plant is in operation. Also includes statistical reports for water-power plants of 100 horsepower or more, lists of plants in operation, memorandums, a 1939 congressional report on plants in the United States (76th Cong., 1st Sess., Sen. Doc. 123), and other records. Most of the records date from 1933.

619. REFERENCE FILE CONCERNING PRODUCTION AND CONSUMPTION OF POWER. 1922-40.  
3 in.

Arranged alphabetically by subject.

Printed articles and other publications, handwritten notes and calculations, statistical tables and summaries, correspondence, press releases, diagrams, and other records concerning consumption and efficiency, coal resources and rates in the United States, interstate transmission of power, water power, and other subject areas related to power production and consumption. Also included is a processed issuance: "A List of References on the United States Geological Survey and Its Work," a 1934 bibliography compiled by James T. Ruby, an undated conference proof copy of a paper delivered at the First World Power Conference in Holland titled "Latest Developments in the Use of Electricity for Heating Purposes in general and especially for Domestic Purposes," and a booklet titled "Instructions for Measurement of Water" compiled in 1930 by John F. Deeds for use by Oil and Gas Supervisors employed by the Conservation Division.

620. RECORDS CONCERNING THE PRODUCTION, CONSUMPTION, AND REGULATION OF  
ELECTRIC POWER. 1925-39. 2 in.

Arranged alphabetically by subject.

Reports, statistical tables, hand calculations and summaries, correspondence, memorandums, and other records concerning the consumption of fuel and comparable fuel rates; capacity of electric generating plants and prime movers in the United States; and production of electricity by public utility plants, and pumped water for power.

Also includes printed articles and a copy of a speech by George O. Smith, Chairman of the Federal Power Commission, relating to public-utility regulation; a pamphlet and congressional document concerning the St. Lawrence Treaty; and a copy of the newspaper *Appleton Post-Crescent* for Thursday, September 29, 1932, that was issued in celebration of the "Fiftieth Anniversary of the World's First Hydro-electric Central Station."

621. REPORTS CONCERNING ELECTRIC POWER RECEIVED FROM OTHER AGENCIES. 1925, 1927, 1932, 1938-45. 7 in.

Arranged by subject.

Chiefly processed monthly and annual reports and statistical summaries, and other records compiled by the Federal Power Commission concerning the production of electricity and consumption of fuel, capacity of generating plants, electric-power supply in the United States, and transmission of energy across State and international boundaries.

Also includes printed reports (1927, 1932, and 1937) from the Bureau of Census (Department of Commerce) on electric-light and power stations, and a printed report (1925) from the Committee on Farm Power (Department of Agriculture) that concerns power used on farms in the United States.

622. STATISTICAL REPORTS AND OTHER RECORDS OF THE EDISON ELECTRIC INSTITUTE. 1943-46. 2 in. 1 binder.

Arranged by type of report, and thereunder chronologically.

Printed reports of "Weekly Electric Power Output" that give statistical data on the amount of electrical energy distributed by the electric-light and power industry; monthly reports on sources and disposal of energy; and a printed statistical bulletin for 1944 ("The Electric Light and Power Industry in the United States"), and two press releases (1944 and 1945) on the electric-light and power industry.

623. CONSULAR REPORTS AND OTHER RECORDS CONCERNING FOREIGN WATER SUPPLIES. 1913-41. 1.5 ft.

Arranged alphabetically by country, and thereunder alphabetically by city when appropriate. A partial listing of the foreign publications accompanies the records.

Narrative and statistical reports concerning the amount, chemical characteristics, and use of public-water supplies in foreign countries. These reports were prepared in the U.S. consulate offices of the respective countries in reply to a memorandum and questionnaire, dated September 1924, sent by the Department of Commerce's Bureau of Foreign and Domestic Commerce. Also includes publications, some of which are in Spanish, French, German, Italian, Portuguese, Dutch, and Swedish; correspondence; maps; plats; handwritten notes; and other records. Most of the records date from 1925 to 1935.

624. CONSULAR REPORTS AND RECORDS CONCERNING NEW CONSTRUCTION AND OPERATION OF FOREIGN WATER-POWER PLANTS. 1938-41. 2 ft.

Arranged alphabetically by country, and thereunder chronologically.

Narrative and statistical reports, correspondence, foreign publications, press releases, handwritten notes, maps, questionnaires, and other records from U.S. consular officers concerning the new construction and operation of water-power plants and hydroelectric-power facilities. Also includes statistical data compiled by consular officers on water-power plant construction, annual questionnaires, and streams; locations of plants; total capacity of water wheels; heights of water head of dams; and notations of new plants or extensions of old ones. The 1938 questionnaires were submitted by the Bureau of Foreign and Domestic Commerce of the Department of Commerce and forwarded to the

USGS for processing; the 1939 to 1941 forms were submitted directly to the USGS. Some of this data was used for yearly articles on world power written by the USGS for the *Encyclopedia Britannica* (see entry 626).

625. RECORDS CONCERNING FOREIGN WATER SUPPLIES. ca. 1936-39. 4 in.

Arranged alphabetically by name of country, and thereunder alphabetically by name of city. Two general files are at the end of the series.

Chiefly a handwritten draft of a report on available water supplies of foreign countries compiled from information gathered from about 1919 to 1939. Also includes a copy of "Water Works and Sewage" (April 1933); typed notes obtained from the Quality of Water Division; and a memorandum on the public-water supplies in South America.

626. RECORDS CONCERNING DEVELOPED WATER POWER OF THE WORLD. ca. 1936-44. 10 in.

Arranged alphabetically by subject.

Narrative and statistical reports, correspondence, annotated drafts of articles, completed forms that "Report on Developed Water Power," publications, clippings from the *Encyclopedia Britannica*, lists of consular-district posts, maps, graphs, foreign copies of *Reclamation Era* for 1937 and 1938, Service Directories for 1940 and 1941, and other records concerning developed water power throughout the world. Some of the reports were compiled from data sent by consular officers in foreign countries (see entry 624) for yearly articles on world power in the *Encyclopedia Britannica*. Also includes copies of speeches by Millard F. Bowen relating to the St. Lawrence Ship Canal.

627. REPORT TITLED "HARDNESS OF WATER SUPPLY IN EUROPE, NORTH AFRICA, AND THE MIDDLE EAST." 1943. 1/8 in.

Copy of a narrative and statistical report prepared by the Office of Strategic Services.

This report has been classified and is labeled "Restricted."

628. REPORTS CONCERNING THE WATER SUPPLIES OF JAPANESE CITIES. ca. 1946. 0.25 in.

Arranged by name of city: Gifu, Kobe, Kokura, Kyoto, Okayama, Osaka, Sakai, and Wakayama.

Narrative and statistical reports written by Frederick S. Blach, a water-supply consultant. Includes information that relates to sources of water; clean reservoirs; pumping stations; and the capacity, quality, distribution, consumption, and projected development of water supplies.

Related reports are described in entry 283.

*Water Utilization Division, 1924-52*

The Water Utilization Division was established in 1910 to conduct the field examinations of public lands associated with the investigation of water-power sites, right-of-way, Carey Act segregations, and enlarged homesteads for the Land Classification Board. The Division also made similar field examinations on Indian Reservations. In 1917 the Division was merged with the newly established Division of Enlarged and Stock-Raising Homesteads, which became the Land Classification Investigations Branch in 1922. In 1925 the field employees who were assigned to investigations relating to enlarged and stock-raising homesteads were transferred to the Conservation Branch. In 1931 the Water Utilization Division was reestablished, but most of its field work was done by employees of the Surface Water Division.

When the Division of Power Resources was abolished in 1945 the Water Utilization Division assumed functions relating to the collection of information about developed water power by the States and the compilation of an annual report based on the collected data. In 1948 the Water Utilization Division was renamed the Technical Coordination Branch, which became the General Hydrology Branch in 1956.

629. LETTERS SENT AND MEMORANDUMS. 1933-40. 2 ft.

Arranged chronologically, and thereunder by assigned number.

Copies of letters sent and memorandums chiefly from the Chief Hydraulic Engineer, the Hydraulic Engineer in charge of the Water Utilization Division, the Director of the USGS, and the USGS staff concerning Division projects, estimates, and allotments, staff reports, Division publications, and personnel matters. The records also show cooperation with the International Joint Commission, Canada's Dominion Water Power and Hydrometric Bureau, the Federal Power Commission, Works Projects Administration, Soil Conservation Service, Bureau of Reclamation, Army Corps of Engineers, the Mississippi Valley Committee, and State agencies. The last file contains letters sent, from 1936 to 1940, by the USGS Chief Clerk, in response to requests for information on floods, flood control, and USGS publications.

630. BUDGET FILES. 1940-44. 5 in.

Arranged chronologically.

Copies of "allotment ledger" sheets that give allotments, reimbursements for division projects from other Federal units, and summary statements; completed ledger sheets that show division expenditures; completed purchase orders, requisition and voucher forms, and statistical summaries; and tables of salary distribution. Includes correspondence and memorandums concerning allotments and expenditures, a list of Division reports on floods; and one copy of an "allotment ledger" sheet that gives the Division's financial statement at the close of June 30, 1944.

631. PHYSIOGRAPHIC DATA RELATING TO FLOOD FLOW. 1939-41. 6 ft.

Arranged according to a numeric system: files whose number sequence begins with 1 pertain to the New England and Mid-Atlantic States; files whose number sequence begins with 3 pertain to Pennsylvania, West Virginia, and Ohio. The last file is unnumbered and contains an annotated manuscript by Walter B. Langbein. No file sequence begins with the number 2.

Statistical tables, statistical summaries, handdrawn maps, annotated printed maps, and graphs showing base data, land slope, stream densities, discharge measurements, precipitation data, land elevations, and other physiographic data. Also includes oversized statistical tables that summarize the topographic and discharge characteristics of New England river basins; and Langbein's annotated manuscript titled "Topographic Characteristics of Drainage Basins and their Hydrologic Significance," accompanied by some edited parts of the manuscript and a memorandum from the editor. The manuscript was published as USGS Water-Supply Paper 968-C, "Topographic Characteristics of Drainage Basins" (1947).

These records were compiled as part of a cooperative project with the Works Progress Administration (Project O.P. No. 765-23-3-6) to collect topographical data in the Northeastern and North-Central States, as a basis for studying the topography's effect on stream flow and flood flow. Langbein supervised the project, under the general direction of the Water Utilization Division. Headquarters were established in Boston and Pittsburgh.

632. RECORDS CONCERNING HYDROLOGIC STUDIES DIRECTED BY WILLIAM GLENN HOYT AND WALTER BASIL LANGBEIN. 1924-25, 1933-42. 15 in.

Arranged by subject.

Chiefly correspondence and memorandums, but also includes reports, statistical tables, plats, charts, diagrams, printed articles, and other records concerning cooperative projects directed by William G. Hoyt and Walter B. Langbein. The projects include a study of flood peaks on Massachusetts streams; a WPA-funded study of flood volumes; an investigation of surface-water hydrology of metropolitan New Jersey; and a study of the quality and quantity of water in the Upper Gila Basin, Arizona. Also contains records relating to Hoyt's chapter on "Storage" prepared for a volume on hydrology for the National Research Council; drafts of an article (1942) by Hoyt about "John Wesley Powell, Pioneer Conservationist"; and records concerning USGS sponsorship of a project to standardize the methods of rating rivers for the American Standards Association. When the USGS ended its sponsorship of the standardization project in 1941, the USGS kept the records for 1924-25 and 1933-43, but gave the American Standards Association the records for 1926-32.

For other records relating to the Upper Gila Basin project, see entry 507; for other records relating to the National Research Council's volume on hydrology, see entry 590.

633. ADMINISTRATIVE RECORDS CONCERNING RALF RUMEL WOOLLEY. 1939-49. 5 in.

Arranged in rough chronological order. A file on the Colorado River-Great Basin in Utah in 1940 is at the end of the series.

Correspondence, memorandums, staff reports, newspaper clippings, statistical summaries, plats, and other records maintained by Ralf R. Woolley regarding the administration of USGS water-utilization programs in Utah. The correspondence is chiefly between Woolley and the Washington office of the Water Utilization Division. Also includes reports and conference papers written by Woolley, and programs and minutes relating to his participation in conferences.

Of particular interest is Woolley's paper on "Water Utilization Development--Jurisdiction over Water Resources." The article outlines the history of water-rights legislation; projects in California, Idaho, Nevada, Oregon, Utah, and Wyoming; and the involvement of the Federal Government. The paper also contains a bibliography of the principal reports concerning water utilization prepared by the USGS between 1890 and 1943.

Woolley joined the USGS in 1917 as a hydraulic engineer. By 1939 he was in charge of the Water Utilization Division at Salt Lake City, Utah; by 1942 he also chaired the Colorado River Basin Committee. He served with the USGS in Utah until his death in 1948.

634. RECORDS CONCERNING THE SPECIAL INVESTIGATIONS OF FLOODS. 1935-52. 3 ft.

Arranged chronologically by year, thereunder by subject, and when appropriate thereunder by the surname of the district engineer.

Correspondence, memorandums, reports, statistical tables and summaries, graphs, plats, newspaper clippings, handwritten notes, pamphlets, photographic prints of floods and flood damage, and other records concerning the investigations of floods in the United States between 1935 and 1942. Special floods studied include those in New York, July 1935; Northern California, December 1937; Southern California, Boston, Massachusetts, and Texas, 1938; Kentucky and the Lower Colorado River, 1939; Southeastern States, August 1940; and Pennsylvania, June 1941 and July 1942.

General Hydrology Branch, 1889-1966

The General Hydrology Branch, successor to the Technical Coordination Branch, was established in 1956 to examine the fundamental problems of hydrology and to conduct research and prepare studies in fields that were not part of the responsibilities of the other operational units. The Technical Coordination Division (later Branch) (successor to the Water Utilization Division), established as a staff unit in 1948, was responsible for coordinating the research activities and field investigations of the operational units in the Water Resources Branch. The General Hydrology Branch was abolished in 1967.

635. MANUSCRIPT COPY OF "HYDRAULIC INVESTIGATIONS OF SLUICE-GATES AND ORIFICES." ca. 1930-33, 1949, 1951. 1 in.

An undated annotated draft of a paper by Robert E. Horton, Harry R. Leach, and Roswell D. Trimble. Also includes some original drawings, diagrams, tables, and photographic prints dated 1930 to 1933. Correspondence, dated 1949 and 1951, concerns the publication of the report accompanies the manuscript. The paper describes and gives the results of a series of experiments carried out in August 1929 at the Hydraulic Laboratory of the University of Iowa.

636. GENERAL CORRESPONDENCE FILES. 1920-59. 7 ft.

Arranged by subject or surname of the individual, and thereunder roughly chronologically or alphabetically. A list of file title headings appears as Appendix 33 in this inventory.

Chiefly correspondence and memorandums, but also includes statistical summaries and tables, graphs, vouchers, purchase orders, bound reports, publications, handwritten notes, photographic prints, and other records concerning the administration, finances, policies, and programs of the General Hydrology Branch, and its predecessors (the Technical Coordination Branch and the Water Utilization Division). These records also show cooperation on runoff investigations with other units of the USGS; other Federal agencies, especially the Bureau of Reclamation, Bureau of Land Management, Bureau of Indian Affairs, the Interior Department's Office of Land Utilization, and the Army Corps of Engineers; and independent bodies, such as the Bonneville Power Administration and the University of Washington. Also included are agendas, minutes and other records relating to branch participation on interagency interdepartmental, regional, and international boards and committees; and employment applications, position-description forms, and other records relating to employees of the branch. Also contains "reservoir inventories" for Northern Michigan, Idaho, and California that include the reservoir name, location, date completed, height and area, capacity, uses, and owner.

637. RECORDS CONCERNING PROGRAMS AND PROJECTS. ca. 1915-58. 15 ft.

Arranged by subject, and thereunder roughly chronologically. A list of file title headings appears as Appendix 34 in this inventory.

Correspondence, memorandums, reports, statistical tables and summaries, plats, charts, abstracts, and minutes of meetings, attendance lists, printed reports and bulletins, newspaper clippings, legal briefs, manuscripts, handwritten notes, photographic prints, and other records regarding the programs and projects coordinated by the General Hydrology Branch. A large part of the records relate to Branch cooperation with the International Joint Commission on investigations of the Waterton-Belly, Columbia, Kootenai, Red, Souris, Roseau, St. Mary and Milk, and other rivers; the International Boundary and Water Commission's investigations of waterways contiguous to Mexico;

the Interior Department's Board on International Water and Power; the Pacific Northwest Governors' Policy Committee; and the Interagency Water Resources Policy Review Committee.

The series also contains records concerning the Water Loss Research Program, which includes the Lake Hefner, Lake Mead, and Bruning, Nebraska, Evapotranspiration Studies; the Soil and Moisture Program; and the Interchange of Persons Program with Japan.

Other records relating to the Lake Hefner and Lake Mead Studies are described in entries 487-490.

638.     REPORTS AND OTHER RECORDS CONCERNING WATER SOURCES FOR LIVESTOCK. 1942-59. 3 ft.

The files are arranged by year and thereunder by report; the five files at the end of the series are arranged by subject. A list of the reports appears as Appendix 35 in this inventory.

Chiefly narrative reports, accompanied by plats, graphs, statistical summaries, correspondence, and memorandums, prepared by Division geologists, regarding water sources for livestock in grazing districts in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, and Wyoming. The subject files include correspondence, memorandums, lists of reports, handwritten notes, press releases, statistical summaries, and other records relating to the preparation and transfer of the reports, proposals for new or further investigations, descriptions of active projects, and personnel matters.

Studies of stock-well sites were compiled in response to requests from the Bureau of Indian Affairs, Bureau of Land Management, and the National Park Service. The Division of Water Utilization coordinated the investigations and reports until 1949, when the responsibilities were assumed by the Technical Coordination Branch. In 1956 the duties were transferred to the General Hydrology Branch.

639.     GENERAL FILES OF THE REPORTS SECTION. 1889-1966. 9 ft.

Arranged according to a numerical system (1800 to 6011). A list of file-title headings appears as Appendix 36 in this inventory.

A wide range of records comprise these files. Some, but not all, of the following documents are found in each file - correspondence, memorandums, statistical tables and summaries, technical and progress reports, annotated articles and manuscripts, publications, graphs, diagrams, plats, handwritten notes, newspaper clippings, completed 3 in. x 6 in. cards that record discharge measurement, field notebooks, copies of congressional bills, photographic prints, and other records which appear to have been maintained as a reference file by the Reports Section. The files contain both administrative records and technical data relating to the reports and publications of the Division. Most of the records relate to surface-water issues, although other types of water studies are represented. Includes information on stream-gaging procedures, measurements, and equipment; accuracy of discharge and runoff records; available water resources and power in the United States; water-resources investigations in various States; compilation of data for reports; and the proofreading and publication of Water-Supply Papers and Division reports.

## Office of Radiohydrology, 1947-75

A Section of Radiohydrology was established in 1947 to coordinate Division investigations funded by the Atomic Energy Commission (AEC). Most of the work of the Section concerned cooperation with the AEC (including its Division of Reactor Development and Division of Military Applications) and the Office of Earthquake Research and Crustal Studies in the study of reactor-development technology and other issues including the location and construction of reactors, the storage and disposition of radioactive gases and other waste by-products of reactor operations, thermal pollution, and the effects of activities associated with weapons testing and the PLOWSHARE Program. The research sites included the Hanford Reservation in Washington, the Los Alamos Scientific Laboratory in New Mexico, the Nevada Test Site, the Savannah River Plant in South Carolina, the Knoll Atomic Power Laboratory in New York, and the National Reactor Testing Station in Idaho.

The Section also investigated the occurrence of radioactivity and selected radioelements in natural waters. In 1963 the Section was abolished and its functions were transferred to the Ground Water Branch. In 1966 the Section was organizationally reestablished and in 1967 became an Office.

### 640. RECORDS CONCERNING RADIOACTIVITY OF WATER RESOURCES PROJECT. 1947-58. 3 ft.

Arranged by subject, and thereunder roughly chronologically.

Correspondence, memorandums, technical and progress reports, statistical tables and summaries, completed "Statement of Water Analysis" forms, completed "Radioactivity of Natural Water--Sample Record" forms, reports on water samples by National Bureau of Standards, handwritten notes, newspaper clippings, printed articles and other publications, diagrams, and other records concerning cooperative investigations of the radioactivity of natural waters of the United States. The radioactivity investigations involved branches of the Water Resources Division and the Geologic Division; the Atomic Energy Commission (AEC); and the National Bureau of Standards. Includes information on proposals and plans for research; research progress; estimates, allotments, and expenditures; data collected; equipment and supplies; and personnel matters. Also contains records that document the AEC's program on radioactive-waste disposal.

### 641. RECORDS RELATING TO RADIOACTIVE-WASTE DISPOSAL. 1947-75 6 ft.

Arranged by subject.

The records include correspondence, project proposals, memorandums, copies of articles, handwritten notes, annotated topographic maps, charts and graphs, drafts of technical papers, lists of reports, newspapers clippings, work plans, "Summary of Program" forms, and "Request for Project Authorization" forms. There are also fiscal records relating to program funding, salaries, budgets, and reimbursable accounts that include completed "Obligation of Funds" forms, ledger account pages, "Adjustment Voucher" forms, "Estimates of Appropriations" narrative forms, and budget justifications.

There are also correspondence, reports and other records relating to negotiations with the governments of Colorado, South Carolina, and Oregon by Chem-Nuclear Services to operate nuclear-waste burial sites in those States; and manuscript copies of research papers relating to aquifer investigations, exploratory test holes, disposition of radioactive effluents, evaluations of seismic risk, ground-water flow rates, gas injection, and other hydrologic and geologic studies.

Most of the records date from the interval 1961-71

## Conservation Division, 1894-1980

The first-named responsibility of the USGS in its establishing legislation was “the classification of the public lands.” Director King decided, and the Public Lands Commission of 1879-80 confirmed, that land classification by the USGS was not intended to supercede the pre-sale classifications of the General Land Office. Instead King “concluded that the intention of Congress was to begin a rigid scientific classification of the national domain for the general information of the people of the country.” King planned “a series of land maps” to “show all those features upon which intelligent agriculturists, miners, engineers, and timbermen might hereafter base their operations” and also to “be of the highest value for all students of the political economy and resources of the United States.” USGS geologists, topographers, and hydrologists, as part of their programmatic field work, collected information about the character of the public lands, including therein the fossil fuels that also formed the basis of much of the agency’s subsequent work in pre-disposition classification.

USGS contributions to the pre-sale classification of the public lands began in the summer of 1905 when the General Land Office (GLO) asked the USGS to examine some contested coal lands in Utah. The USGS had just added to its scientific investigations of coals and lignites the study of their efficiency as fuels. Continuing USGS classifications of the coal and other natural-resources lands began in 1906, under a cooperative agreement between the GLO, in response to the President’s request to the Secretary of the Interior to determine which coal deposits were so valuable that their lands should be withdrawn from entry. The USGS reported its findings to the GLO for action, a working arrangement that remained generally the same for many years.

In 1908 the Land Classification Board was established as a section in the Geologic Branch’s Division of Geology. The close relationship between the Board and the Geologic Branch is evident by the number of early records found in the Conservation Division files marked with Geologic Branch file numbers. The Land Classification Board was administered by a Geologist.

In 1912 the Land Classification Board was separated from the Geologic Branch and made organizationally equivalent to a branch. The Land Classification Board was now organized in two divisions--Division of Mineral Classification and Division of Hydrographic Classification--each of which were made up of a number of classification boards. The boards made decisions regarding the classification of land based on information furnished by the Geologic, Topographic and Water Resources Branches. All correspondence with other agencies of the Federal Government regarding land classification matters was handled by the Board.

In 1920 some functions relating to applications for rights-of-way and the preparation of agreements to develop power on public lands were transferred to the Federal Power Commission. The Land Classification Board continued to assemble information regarding potential water power on public lands and to make recommendations regarding the segregation of lands valuable for water-power development.

Until 1921 the Land Classification Board had been financed by assessments on funds appropriated for the other three operating units of the Survey. Beginning in 1917 the Land Classification Board received line-item appropriations for examination and classification. In 1922 the Land Classification Board was renamed the Land Classification Branch.

The Oil Leasing and Mineral Leasing Divisions of the Bureau of Mines were transferred to the USGS in 1925. The responsibility for administering the Mineral Act of 1920 and supplemental and amended laws, including the collection of royalties, formerly assigned to the Bureau of Mines, were made the responsibility of the Land Classification Branch, then renamed the Conservation Branch. The new Branch comprised the Mineral Leasing, Mineral Classification, Homestead, and Power Divisions. In 1926 the Branch began receiving line-item appropriations for mineral-lease enforcement.

Another major change in the responsibilities of the Branch came from the transfer of the field employees from the Division of Enlarged and Stock-Raising Homesteads of the Water Resources Branch. The employees formed the first field staff of the Branch. The functions transferred from the Water Resources Branch were combined with those of the Homestead Division to form the Division of Agricultural Use Classification, later called the Agricultural Division.

In 1933 instructions supplemented Departmental Order 659 for cases concerning petitions for enlarged or stock-raising homesteads and GLO requests regarding public lands containing a spring or water hole where the Conservation Branch could not act without further field examination. The USGS was instructed to refer these cases to the Division of Investigations in the Office of the Secretary of the Interior for the necessary field examinations. The Division of Investigations prepared a report based on the examination for the USGS for action in the case of the homesteads and submitted a report to the GLO, with a copy to the USGS, in cases concerning water holes.

In 1935 the functions of the Agricultural Division were transferred to the newly established Division of Grazing (later the Grazing Service). Those functions included action on applications for agricultural classification, public-water reserves, and water holes, requests for reports from the operational units of the USGS, preparation of orders of withdrawal, and related actions concerning enlarged homesteads, stock-raising homesteads, and Nevada ground-water reclamation. In 1946 the GLO and the Grazing Service were merged to form the Bureau of Land Management.

In 1948 the staff position of Chairman of the Unit Plan Committee was created in the Conservation Branch. In 1949 the Conservation Branch was renamed the Conservation Division and the subordinate organizational units that had been Divisions were designated Branches.

An Executive Order in 1945 placed the natural resources of the Continental Shelf under the jurisdiction of the Secretary of the Interior. The Submerged Lands Act (67 Stat. L., 29), and the Outer Continental Shelf Lands Act (67 Stat. L., 462) were passed in 1953 to encourage the exploration and development of the oil, gas, and other mineral resources of the Outer Continental Shelf. Beginning in 1954 the Conservation Division administered the mineral-leasing laws on the Outer Continental Shelf.

In 1982 the Minerals Management Service (MMS) was created by Secretarial Order 3071, under the authority of Section 2 of Reorganization Plan 3 of 1950. The USGS Conservation Division's administrative functions relating to leasing responsibilities for the Outer Continental Shelf were transferred to the new agency. The following year revenue-management responsibilities of the Conservation Division were also transferred to the MMS. Onshore-leasing responsibilities on public and Indian lands were transferred to the Bureau of Land Management.

General Records, 1901-80

642. MISSION CONTROL FILES. 1901-80. 213 ft.

Arranged in two chronological segments dated 1901-75, and 1976-80. There are two early items, dated 1887 and 1899, in the files. A list of file-title headings appears as Appendix 37 in this inventory.

Correspondence, memorandums, reports, statistical tables and summaries, copies of legislation, handwritten notes, newspaper clippings, press releases, copies of agreements, leases and contracts, copies of briefs, depositions, and court decisions, transcripts of hearings, computer-printout sheets, completed forms for "Log of Oil and Gas Wells" and "Lessee's Monthly Report of Sales and Royalty," lists of coal reserves by States, microfiche copies of reports, and other records concerning the administration, policies, and programs of the Division. Includes information concerning Federal contracts to sell gas, oil, helium, and coal; storage of gas and leasing of tar sands; government litigation and Division involvement in giving testimony and preparing reports; meetings and conferences to discuss and plan Division programs, and recommendations to other agencies and Congress on programs and policies; and cooperation with other Federal agencies, especially the Atomic Energy Commission (AEC), Department of Defense, General Land Office (and its successor the Bureau of Land Management), Bureau of Indian Affairs, and Forest Service. Includes records relating to the Division's cooperation in the AEC's PLOWSHARE Program for developing peaceful applications of nuclear energy, and participation in Project Rulison to assess the commercial feasibility of stimulating a natural-gas reservoir by using nuclear explosives. There are also records relating to USGS oversight of oil and gas exploration on the Outer Continental Shelf and investigation of disasters such as the Santa Barbara oil spill.

Also includes agendas, minutes, attendance lists, transcripts of meetings, reports, lists of members to various committees, and other records relating to the Division's participation in field, interdepartmental, interagency, congressional, and advisory committees. Of particular interest are the files on Indian-land regulations dating from 1901 that include correspondence and copies of rules and regulations relating to leasing Indian lands for oil, gas, and, coal mining; royalties accrued by Indian lands; and the sale of those lands.

A few files on the file-title list consist of cross references to the Royalty Accounting Office and Administrative Office. The records of those offices are not in the National Archives.

643. RECORDS OF CONSERVATION BRANCH ATTORNEY GEORGE WEST HOLLAND. 1922-31. 0.25 in.

Arranged in rough chronological order.

Chiefly telegrams, letters, and memorandums concerning George W. Holland's travel and expenses. Also included is information relating to Holland's trips to Florida to investigate phosphate withdrawals.

644. REPORTS AND OTHER RECORDS CONCERNING THE OPERATION OF POWER SYSTEMS ON FEDERAL LANDS. 1909-48. 20 ft.

Arranged alphabetically by name of utility, company, or other permittees, and thereunder roughly chronologically. A list of file-title headings appears as Appendix 38 in this inventory.

Narrative and statistical annual reports submitted to the USGS in compliance with the acts of February 15, 1901 (31 Stat. L., 790), and March 4, 1911 (36 Stat. L., 1253, 1254). In lieu of these reports, the permittees often sent copies of their reports prepared for the Federal Power Commission, State Regulatory bodies, and stockholders.

Also includes completed USGS forms for "Schedule for Annual Report"; correspondence; transcripts of hearings; printed articles; newspaper clippings; and other records concerning the development of waterpower resources on the public domain by public utilities and other organizations operating under Federal power permits or grants. Contains information that relates to the generation, distribution, and delivery of electric energy; use and alterations made of structures located on land under permit or grant; sources of power; total energy sold and revenues accrued; and operation and maintenance expenses of hydroelectric plants.

645. RECORDS CONCERNING RED RIVER OIL OPERATIONS. 1924-26. 2.5 ft.

The records are divided into two sets: the first part is arranged according to a decimal classification scheme; the second part is grouped alphabetically by subject. Thereunder, both sets are arranged chronologically. Oversized well-production records, arranged chronologically by month, follow the first two sets.

Chiefly correspondence, statistical tables and summaries, but also includes memorandums, reports, vouchers, copies of contracts, bank-deposit slips, canceled checks, handwritten notes and calculations, congressional and court documents, completed "Statement of Disbursing Account" forms, maps, and other records concerning the administration of the Red River Oil Operations in Oklahoma. Contains information that relates to the disbursement and expenditure of funds; oil produced and sold; bids for and purchase of government oil produced; equipment and supplies; personnel matters; insurance for and maintenance of wells; and claims for land rental. Also includes completed (oversize) forms for "Recapitulation Daily Gages" that give well numbers, tank numbers and size, gage reading, and barrels produced.

The Red River Oil operation was established by an act of March 4, 1923 (42 Stat. L., 1448), to administer the Red River oil fields in Oklahoma that had been placed under Federal receivership as a result of a suit between Texas and Oklahoma in the U.S. Supreme Court. Managed initially by the Bureau of Mines, the operation was transferred to the USGS on July 1, 1925. The operations were terminated on December 1, 1925, when the land was turned over to the claimants.

646. RECORDS CONCERNING COOPERATION WITH THE FEDERAL POWER COMMISSION. 1917-49. 15 in.

Arranged by subject, and thereunder chronologically.

Correspondence, memorandums, statistical tables and summaries, technical and annual reports by the USGS for the Commission, copies of Commission reports, regulations, decisions, and printed procedures, press releases, a list of Commission projects, and other records concerning USGS cooperation with the Federal Power Commission. Includes information relating to Division supervision over power projects with permits or licenses under construction and subsequent operations; appropriations, allotments, and expenditures; applications to the Commission for permits and licenses; completion of forms and reports by district engineers on Commission projects; and USGS investigations for court cases involving the Appalachian Power Company (1935-36) and the New-Kanawha Power Company (1934-40). Also contains a list of applications for preliminary permits and licenses (Serial No. 1 to 2032, for the years 1920-49) that gives the serial number, date, name of applicant, project title and description, and proposed use of project.

647. RECORDS CONCERNING THE SALES OF GOVERNMENT ROYALTY OIL TO SMALL REFINERIES. 1946-62. 3 ft.

Arranged numerically by contract-offer number (1 to 17). Offers 1 to 9 are arranged first by preliminary correspondence and then by refining company, and thereunder roughly chronologically; offers 11 to 17 are arranged chronologically. There is no contract offer No. 10.

Chiefly correspondence, but also includes memorandums, statistical tables and summaries, bid reports and summaries, abstracts of bids, copies of agreements and specifications for sales, copies of briefs, lists of eligible refineries and submitted applications, handwritten notes, and other records concerning the purchase and sale of government royalty oil to small refineries under the Small Refinery Preference Act of July 13, 1946 (60 Stat. L., 533). Includes information on the specifications and bids; applicants; rejections of bids; termination of royalty oil contracts; and protests by individuals or refining corporations concerning discontinued sale of certain fuels, and the awards of purchase to certain companies.

General Cartographic Records, 1921-34

648. MAPS SHOWING STATIONS AND TRANSMISSION LINES. ca. 1921-22. 2 items. [NWCS, maps and plans]

Maps for Pennsylvania (1920) and West Virginia (1921) showing "stations and transmission lines used in public service."

649. MAPS OF INDIAN RESERVATIONS IN OKLAHOMA. 1929-34. 4 items. [NWCS, maps and plans]

The maps are titled "Map of the Cheyenne and Arapaho Indian Reservation, 1933; "Map of Restricted Indian Land - Cheyenne and Arapaho Reservation," 1929; "Map of Restricted Indian Land - Iowa, Kickapoo, Sac & Fox, and Pottawatomie-Shawnee Reservations," 1934; and "Map of the Wichita, Kiowa, Comanche, and Apache Reservations," 1933.

*Mineral Classification Division, ca. 1900-1980*

The Division of Mineral Classification was established in 1912 within the Land Classification Board when the Board was separated from the Geologic Branch and made organizationally equivalent to a branch. The Board was renamed the Land Classification Branch in 1922. When the name of the Branch was changed to the Conservation Branch in 1925, the Mineral Classification Division remained as an organizational unit. The Division was responsible for the classification of the public lands with respect to their mineral resources, in accordance with the provisions of the Mineral Leasing Act of February 20, 1920 (41 Stat. L., 437), and later supplemental and amending legislation, and preparation of reports advising the General Land Office (later the Bureau of Land Management) on actions to be taken regarding the disposition lands under the public-land laws. Field examinations were done chiefly by the Geologic Branch. In 1949 the Conservation Branch was restyled a Division. The functions of the Division were transferred to the Geologic Division in 1982 when the Conservation Division was abolished.

650. LAND-CLASSIFICATION INDEX CARDS. ca. 1900-1922. 16 ft.

Arranged by State or Territory, thereunder by principal meridian and quadrant, thereunder by range, and thereunder by township.

Cards (5 in. x 8 in.) labeled coal, coal - noncoal, mineral - nonmineral, oil - nonoil, phosphate, and oil shale. Each card shows one township. On most of the cards, sections are colored in to delineate land withdrawn pending classification, classified coal land, classified noncoal land, and land restored without classification. Narrative information includes dates of letters to the Register and Receiver, orders, classification, and examination, usually with the name of the examiner.

651. INDEX TO WITHDRAWAL, MODIFICATION, AND RESTORATION ORDERS. ca. 1910-66. 15 in.

Arranged by type of order, thereunder by coal, helium, oil shale, phosphate, potash, petroleum, and mineral land, and thereunder alphabetically by State or Territory.

Cards (3 in. x 5 in.) showing the date of the order and legal land description or number of acres. Sometimes the dates of Land Classification Board minutes and actions also are given.

652. CLASSIFICATION, WITHDRAWAL, AND RESTORATION BOOKS. 1903-24. 3 ft. 19 vols.

Arranged in eight sets: coal withdrawals, restoration, and classification, 1906-9 (3 volumes), coal classifications, 1910-24 (4 volumes), coal restorations, 1910-21 (5 volumes), coal withdrawals, 1910-13 (2 volumes), petroleum reserves - withdrawals, 1903-24 (2 volumes), petroleum reserves - restorations and modifications, 1909-15 (1 volume), phosphate reserves, 1908-15 (1 volume), and phosphate restorations, 1908-15 (1 volume). The contents of the volumes are arranged chronologically. Some of the volumes have a table of contents.

Chiefly copies of letters, with township lists, to the Commissioner of the General Land Office and the Secretary of the Interior describing lands affected by orders of withdrawal, modification of withdrawal, or restoration. There are also a few similar letters to the Commissioner of Indian Affairs and the Forest Service. The volumes also contain a few annotated maps, township diagrams, and memorandums. Many of the letters and lists are annotated. Some of the letters bear handwritten file numbers and appear to have once been part of the General Correspondence Files, 1890-1922, (entry 159) of the Geologic Division.

653. COAL CLASSIFICATION PLATS. ca. 1906-78. 11 ft. 40 binders.

Arranged alphabetically - Alabama, Alaska, Arizona, Arkansas, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, North Dakota, South Dakota, Utah, Washington, and Wyoming, thereunder by principal meridian and quadrant, thereunder by range, and thereunder by township.

Chiefly color-coded township plats showing the location of land reported as coal-bearing (there are a few plats that also show iron- and oil-bearing land), land withdrawn pending classification, classification status of land, and dates of withdrawal and restoration orders. Some plats also indicate the monetary value of mineral-bearing land.

654. CORRESPONDENCE AND OTHER RECORDS RELATING TO COAL-LAND CLASSIFICATION. 1906-72. 15 in.

Arranged by type of record or subject and thereunder in rough chronological order.

Chiefly correspondence, transmittal letters and coal-land classification orders, but also including minutes of the Coal Classification Board, memorandums, circulars, newspaper clippings, copies of articles, regulations, proclamations, and instructions. Many of the records relate to the procedures drafted and adopted by the Coal Classification Board to examine, classify, and assign value to coal-bearing lands. The procedures extended to the compilation and format of reports submitted to the Board including the designation of symbols to be used on maps accompanying the reports. Other records concern the implementation of policies established by the Secretary of the Interior and the Director of the USGS, cooperation with other units of the USGS, the General Land Office, the Bureau of Indian Affairs, and the Forest Service, coal-land leases, oil- and gas-prospecting permits, and designations under the stock-raising homestead act.

655. RECORDS CONCERNING PETROLEUM WITHDRAWALS IN CALIFORNIA. 1907-21, 1931. 4 in.

Arranged chronologically.

Chiefly correspondence, memorandums, and lists of land but also including copies of withdrawal and restoration orders, reports on oil-field examinations, depositions, telegrams, and photographs. The records concern the examination and classification of oil-bearing lands, principally in the Sunset-Midway, McKittrick, and Coalinga Oil Districts, cooperation with the Department of Justice in a suit to recover oil lands patented to the Southern Pacific Railroad Company, and establishment of Naval Petroleum Reserves. The correspondence is with other units of the USGS, the Secretary of the Interior and the First Assistant Secretary, Department of Justice attorneys, the Commissioner of the General Land Office, oil company executives, and private consultants.

There are two untitled and undated oversize maps at the end of the series. One appears to show the rough location of the McKitterick and Sunset Oil Districts. The second map, stamped "Ralph Arnold" (a geologist with the USGS), covers that part of California from San Jose to the International Boundary. It is annotated to show the location of proven, probable, and possible oil fields.

656. COAL, POTASH, PHOSPHATE, AND POTASSIUM-LAND CLASSIFICATION, WITHDRAWAL, AND RESTORATION FILES. 1908-80. 3 ft.

The files are organized in two parts. The coal-land files are arranged alphabetically by State or Territory and thereunder by order number. The remaining files are arranged by State, mineral, or type of order.

Chiefly correspondence, memorandums, and withdrawal, modification, and restoration orders, but also includes handwritten notes, diagrams and sketches showing the locations of mineral-bearing lands and leases, annotated printed maps showing withdrawn mineral-bearing tracts, completed coal-prospecting permits, monthly reports of coal-prospecting permits, photographs, and geologic reports.

The records concern the withdrawal and restoration of mineral-bearing lands, operations of mining companies and individual prospectors, and cooperation with the General Land Office (and its successor the Bureau of Land Management), the Bureau of Mines, the Forest Service, and the Bureau of Indian Affairs.

There is also a file concerning the mineral character of lands in the diminished Crow Indian Reservation.

Some minutes of the Coal Classification Board are part of the records described in entry 654.

**657. RECORDS CONCERNING THE CLASSIFICATION OF NORTHERN PACIFIC RAILROAD GRANT LANDS. 1909-26. 5 in.**

Arranged in four sets as described below and thereunder chronologically.

The first set, 1909-17, 1924, is comprised chiefly of correspondence with the General Land Office, but also includes correspondence with geologists in the field, the Secretary of the Interior, and attorneys for the railroad, memorandums, lists of classified land, copies of land-classification reports, and annotated maps and township plats. The two 1924 items concern General Land Office (GLO) Circulars 930 and 931. The records concern the examination and classification of land as to its mineral or nonmineral character under the acts of February 26, 1895 (28 Stat. L., 683), and June 25, 1910 (36 Stat. L., 739).

The second set, 1910-17, is comprised of letters from the GLO transmitting lists of lands within the limits of the railroad grant and requesting examination and classification of those lands. There is also a list of lands involved in the "Garfield Agreement."

The third set, 1911-22, consists of letters from the GLO regarding land classified as nonmineral.

The fourth set, 1911-26, consists of copies of letters to the GLO transmitting exhibits showing the classification of railroad-grant lands. Copies of the exhibits are not in the file.

**658. MINUTES OF THE METALLIFEROUS-LAND CLASSIFICATION BOARD. March 1, 1912 - May 19, 1913. 0.5 in.**

Arranged chronologically.

The minutes concern the classification of Northern Pacific Railroad grant lands, compilation of State "Safety Maps," which show areas classified as mineral, nonmineral, or not yet classified, and the legal and geologic phases of land-classification work, especially with regard to Indian-reservation lands. Included is a draft of a paper titled "Principles Governing Mineral Land Classification," by Frank C. Calkins, April 17, 1912, accompanied by critical notes from readers. It is not known if this series comprises a complete set of the minutes.

**659. RECORDS CONCERNING INDIAN-LAND CLASSIFICATION. 1912-17. 3 in.**

Arranged by name of Indian Reservation.

Chiefly copies of letters sent to the Commissioner of Indian Affairs comprising reports "as to the mineral character and power site or reservoir possibilities" of Indian lands. A separate file contains correspondence and minutes of meetings of the Metalliferous Board, April 25 and July 22, 1912, concerning iron deposits in the Blackfoot Reservation, Montana.

660. CROSS-REFERENCE SHEETS CONCERNING LAND CLASSIFICATION. 1912-16. 0.25 in.

Arranged chronologically.

Land-description summaries shown by township and range indicating lands classified as mineral or nonmineral in character. The summaries were directed chiefly to the Office of Indian Affairs, but also to the General Land Office, the Secretary of the Interior, and the Secretary of Agriculture. Each sheet carries a reference to a complete list of lands. Those lists have not been found.

661. OVERSIZE MAPS SHOWING LOCATIONS OF SEGREGATED COAL LANDS AND COAL FIELDS 1929, 1935. 8 items

Arranged by county or land district: Carbon and Emery Counties, Utah (1929); Stigler-Poteau District (2 maps), Howe District, Wilburton District, McAlester District, and Lehigh District, Oklahoma (1935); and Huerfana and Los Animas Counties, Colorado (n.d.). The maps are filed with the textual records.

All the county and district maps show coal-bearing land and location and names of companies operating coal mines. Some of the maps also show railroad lines, gas wells, and other features.

662. INDEX TO PUBLIC-LAND ORDERS. 1942-47. 6 in.

Arranged numerically by order number, 1-393. Some numbers do not appear in the index.

Cards (4 in. x 6 in.) showing State or Territory, Federal Register citation (volume, number, page), date of order, purpose, and sometimes the legal-land description.

There are two sets of cards at the end of the series: the first lists the orders as they appeared in the Federal Register, and the second organizes the orders by State or Territory.

663. A MAP SHOWING MAPPING AND CLASSIFICATION PROGRESS TO JANUARY 1964. 1 item

An oversized color-coded map of the United States showing geologic-mapping area in progress, geologic mapping completed, classification minutes submitted, classification minutes approved, areas being classified from subsurface data or published reports, and areas containing withdrawn mineral lands. The map is filed with the textual records.

*Branch of Oil and Gas Operations, 1920-68*

Oil and Gas Leasing functions were transferred from the Bureau of Mines in 1925 and assigned to the newly established Mineral Leasing Division. In 1932 a separate Oil and Gas Leasing Division was established. The Division was renamed the Oil and Gas Leasing Branch in 1949. The Branch was responsible for supervising the prospecting, development, and production of oil and gas from leases on Federal, Indian, and certain naval-petroleum-reserve lands. In 1959 the Branch was renamed the Branch of Oil and Gas Operations. The functions of the Branch were transferred to the Bureau of Land Management in 1983.

664. RECORDS MAINTAINED BY HALE BRYAN SOYSTER CONCERNING PROPOSALS TO CONSERVE OIL AND GAS. 1934-43. 5 in.

Arranged by subject, and thereunder chronologically.

Chiefly correspondence, but also includes memorandums, reports, statistical tables and summaries, copies of testimony, hearing proceedings and speeches, handwritten notes, newspaper clippings, copies of House bills, and other records relating to Hale B. Soyster's cooperation with committees concerned with petroleum conservation. Soyster completed studies and testified before the Petroleum Sub-Committee of the House Interstate and Foreign Commerce Committee (also known as the "Cole Committee"). This committee undertook investigations of the oil industry, and proposed a bill (H.R. 7372, 76th Congress, 1st Session) to conserve petroleum and control the production of oil and natural gas.

Soyster also testified before the National Resources Board's Temporary National Economic Committee regarding the conservation of petroleum on the public domain and Indian lands.

Soyster served as the Chief of the Oil and Gas Leasing Division from 1932 to 1943, and as Chief of the Conservation Branch from 1943 to 1944.

665. RECORDS CONCERNING BRANCH CONFERENCES. 1930-68. 1.5 ft.

Arranged chronologically.

Copies of papers, minutes, correspondence, memorandums, transcripts of proceedings, handwritten notes, newspaper clippings, and other records relating to Branch conferences and meetings that concern the policies and procedures of the Branch's oil- and gas-leasing programs. Also included are "Flexograph" recordings of the Oil and Gas Supervisor's conference of April 1949, and Harold G. Barton's (Chief of the Branch) notebook from the Supervisor's Conference in September 1956.

666. RECORDS CONCERNING OIL- AND GAS-LEASING FORMS AND REGULATIONS. ca. 1920-52. 1.5 ft.

Arranged by subject, and thereunder roughly chronologically.

Correspondence, memorandums, reports, copies of blank leases, leasing and operating regulations, Federal codes, and congressional bills, statistical tables and summaries, minutes of meetings, transcripts of conference proceedings, newspaper clippings, handwritten notes, bulletins, and other records that concern revisions of leasing forms (particularly those applying to Indian lands) and regulations for oil and gas operations. Includes information relating to proposed and accepted oil- and gas-leasing forms and operating regulations, active oil-leases on Indian lands and USGS

supervision over work on these lands; lack of compliance with leasing and operating regulations; and changes in oil-lease bidding rules and royalty rates as leasing forms were amended.

667. NATURAL-GAS GASOLINE STATISTICS. 1923. 0.5 in. 1 oversized volume.

The entries are arranged by State, thereunder alphabetically by county, and thereunder by name of oil company or operator. Each entry has an assigned number. The significance of the numbers is not known.

The folio-style columnar sheets are divided into two sections. Column headings in the "consolidated statement" section include stocks - January 1, 1923, production, purchased consumed by company, sales, losses, stocks - December 31, 1923, and total quantity of raw natural-gas gasoline. Column headings in the "detailed statement" include list of plants operated, name of plant, location of plant, daily capacity of plant (gallons), quantity and value of gasoline produced, price per gallon, quantity and yield of gas treated, and quantity of raw product.

668. STATISTICAL DATA CONCERNING OIL AND GAS OPERATIONS IN THE UNITED STATES. 1934- 59. 1.5 ft.

Arranged by subject, and thereunder chronologically.

Chiefly statistical tables and summaries, but also includes correspondence, memorandums, reports, copies of articles, graphs, maps, handwritten notes and calculations, and other records concerning oil and gas resources in the United States. Contains data that relates to estimated oil and gas reserves; wildcat-drilling operations; royalty accruals from public lands; and the production of oil, gas, coal, and other minerals in the United States.

669. MONTHLY REPORTS. 1924-66. 36 ft. 165 vols.

Arranged chronologically by month, and thereunder by district.

Narrative monthly reports from the district offices of the Branch that also contain statistical tables and summaries, correspondence, graphs, diagrams, plats, and photographic prints. Includes information on the number and status of oil- and gas-prospecting permits and new oil leases on public, Indian, and military lands, naval reserves, and the Outer Continental Shelf; number of wells drilled for oil and gas; U.S. Government royalties accrued from oil, gas, and gasoline produced from government lands; recommendations for investigations; and personnel matters.

The first three volumes (volumes 2 and 3 are bound together) were compiled by the Bureau of Mines.

670. MAPS CONCERNING THE LOCATIONS OF OIL-FIELD LEASES. ca. 1934. 16 items. [NWCS, maps and plans]

Included are maps that appear to have accompanied a letter dated January 26, 1937, to the Secretary of the Interior from the Texas Pipeline Company and signed by L. E. Burrows. One of the maps is titled "The Texas Pipeline Company Map of Midcontinent Oil Trunk Pipe Line Systems," January 1, 1934. The other unlabeled maps appear to show oil leases in Louisiana, New Mexico, and Texas.

Other items in this series are a "Geologic and Structure Contour Map of the Osage Oil Field, Weston County, Wyoming," 1935; a printed undated drawing of the "Inner Harbour [and] Navigation Canal of the Greater Port of New Orleans;" and an undated item titled "An Index of Sheets Issued by various Governments on a Uniform Scale of 1:1,000,000" for sale by the International Map Company, Inc.

*Mining Branch, 1933-41*

The Mining Division was established in 1930 to exercise functions formerly administered by the Oil and Gas Leasing Division. The Mining Division was responsible for the application of various mineral-leasing laws regarding operations and activities concerned with the prospecting, development, and production of various minerals, fuels, and fertilizers under leases on Federal and Indian lands. The Mining Division was renamed the Mining Branch in 1949. The name of the Branch was changed to the Branch of Mining Operations in 1959.

671. REPORTS AND OTHER RECORDS CONCERNING EMERGENCY-RELIEF-FUNDED MINE-SAFETY PROJECTS. 1933-35. 6 ft.

Arranged by Federal-project number (No. 55 to 66), and thereunder chronologically.

Chiefly monthly progress and final reports that include correspondence, statistical summaries, newspaper clippings, plats, and photographic prints concerning civil- and public-works projects to preserve and protect mines on the public domain and Indian reserves. Includes projects to eliminate health hazards at mines, safeguard mine openings, fill abandoned mine shafts, prevent the flooding of mines, and control outcrop fires.

Entry 674 contains additional information about some of these projects.

672. RECORDS CONCERNING COOPERATION ON PUBLIC WORKS PROJECTS. 1933-36. 7 in.

Arranged by State as follows: California, Colorado, Montana, North Dakota, Oklahoma, Utah, and Wyoming, and thereunder chronologically.

Chiefly correspondence, but also includes memorandums, statistical summaries, reports, plats, newspaper clippings, photographic prints, and other records concerning Public Works projects to control and extinguish coal-outcrop fires at mines, and safeguard mine openings. Includes information on appropriations, allotments and expenditures, progress of projects, personnel matters, and location of mines. Also contains records that relate to the plugging and abandonment of sodium-prospect wells in California and a study of rock formations and their relation to the occurrence of oil and gas in Osage County, Oklahoma.

Some of these projects are discussed in entry 671.

673. RECORDS CONCERNING PUBLIC WORKS PROJECTS ON INDIAN COAL LANDS IN OKLAHOMA. 1933-37. 5 in.

Divided into the McAlester and Miami Districts, and thereunder roughly chronologically.

Chiefly correspondence, but also includes memorandums, reports, statistical summaries, handwritten notes, copies of articles, photographic prints, and other records concerning Public Works projects on restricted and segregated Indian coal lands in Oklahoma. The projects were begun to reduce the hazards of mine fires and floods. Includes information on appropriations, allotments and expenditures, progress of projects, personnel matters, and supplies.

674. RECORDS CONCERNING COOPERATION WITH NEW-DEAL AGENCIES ON MINES AND MINE SAFETY. 1933-41. 5 in.

Arranged by subject.

Correspondence, memorandums, reports, statistical tables and summaries, newspaper clippings, handwritten notes, circulars, and copies of the National Industrial Recovery Act (NIRA) of June 16, 1933 (48 Stat. L., 195). NIRA codes and Public Works Administration (PWA) rules and regulations, copies of articles, plats, photographic prints and other records concerning the Division's cooperation with the National Recovery Administration, Civil Works Administration, and PWA. Includes information on the Division's work on the mining lands of the public domain and on Indian reserves; appropriations, allotments, and expenditures for cooperative projects; personnel matters; and specific projects such as safeguarding mine openings from fires, protection of Indian mines from natural hazards, and inspection of coal leases. Also contains a copy of the agendas, minutes, codes, and bylaws resulting from the American Mining Congress meeting on June 26, 1933 concerning cooperation under the NIRA; and completed PWA project reports for 1938.

*Water and Power Branch, 1894-1961*

A Division of Hydrographic Classification was created when the Land Classification Board achieved branch status in 1912. The Division was renamed the Power Division when the Land Classification Branch (1922) was renamed the Conservation Division in 1925. By 1940 the unit had been renamed the Water and Power Division. The Division was renamed the Water and Power Branch in 1949. The Branch was responsible for classifying the public lands with regard to their water-power and water-storage possibilities. The Branch was renamed the Branch of Waterpower Classification in 1959.

675. RECORDS CONCERNING LAND AND STREAM CLASSIFICATION. 1894-1961. 54 ft.

Arranged according to a numeric system. A list of file headings appears as Appendix 39 in this inventory.

Chiefly narrative and statistical reports, but also includes publications, congressional reports, statistical tables and summaries, plats, maps, completed USGS forms for "Water Power Development" and "Power Classification," completed permit applications to appropriate State waters, correspondence, memorandums, photographic prints and negatives, diagrams, press releases, newspaper clippings, handwritten notes, and other records concerning investigations of lands and streams on the public domain and Indian reserves to determine waterpower and storage possibilities. Includes reports that relate to potential and available power resources, sufficiency of water for irrigation and municipal uses, use of water and power by industries, proposed and existing dam and reservoir sites, utilization and improvements of existing water and power supplies, and recommendations for withdrawal of land for power purposes.

Many of these reports evaluate the feasibility of proposed water-power projects being considered for permits and licenses by the Federal Power Commission. Similar reports also were prepared for the Forest Service; the General Land Office, and its successor, the Bureau of Land Management; the Bureau of Reclamation; the Army Corps of Engineers; and the Bureau of Indian Affairs.

Most of the records date from 1910.

676. LAND-CLASSIFICATION MAPS AND RELATED RECORDS. 1899-1934. 68 items. [NWCS, maps and plans]

The series consists of maps of the following areas and subjects: Mt. March and vicinity, 1899, 1904; Utah, 1931; the Central Great Plains, undated; the Northern Great Plains, undated; Northwest Colorado, 1930; Southwest Colorado, 1930; Washington, 1902 (4 parts); water resources of the Snake River Basin, 1932 (2 parts); the Pine Region of Minnesota, 1899 (6 parts); Northwest Wyoming, about 1934; and Southwest Wyoming, about 1934.

The maps are accompanied by processed issuances titled "Land Classification of Western Colorado," 1933; "Utilization of Water Resources of [the] Snake River Basin," 1932; and "Land Classification of the Central Great Plains," 1931 (bound in 4 parts).

677. ADMINISTRATIVE-CONTROL MAPS. ca. 1901-46. 6 vols. [NWCS, maps and plans]

Bound sets of maps grouped as follows: Arizona, California, Colorado and Idaho, Montana, New Mexico and Oregon, and Nevada.

The maps show original plottings and drawings of rights-of-way and easements granted under the acts of February 15, 1901 (31 Stat. L., 790), and March 4, 1911 (36 Stat. L., 1253). Shown are the locations, ownership, and serial numbers of each permit or grant for proposed and existing railroads, highways, telegraph and telephone lines, pipelines, transmission lines, reservoirs, tunnels, and canals associated with irrigation and power projects. The maps are at 1:250,000. The handwritten annotations are very small and difficult to read without a magnifying glass.

*Branch of Connally Act Compliance, 1937-71*

In 1958 activities relating to enforcement of the Connally ("Contraband [or 'Hot'] Oil") Act of February 22, 1935 (49 Stat. L., 30), were transferred from the Office of Oil and Gas in the Office of the Secretary of the Interior to the USGS and placed in the Office of the Chief of the Conservation Branch. In 1963 all functions of the Federal Petroleum Board relating to the Connally Act were transferred to the newly established Branch of Connally Act Compliance. The branch was abolished in 1966.

678. RECORDS CONCERNING THE ADMINISTRATION OF THE CONNALLY ACT. ca. 1940-69. 9.5 ft.

Arranged alphabetically by district office, and thereunder numerically by case number. The district office records are followed by files arranged by subject.

Case files, including correspondence, memorandums, copies of briefs and complaints, transcripts of hearings, statistical tables and summaries, well-production and well-status reports; copies of forms for "Producer's Monthly Report" and "Refiner's Monthly Report," newspaper clippings, handwritten notes, plats, diagrams, printed court documents, and other records concerning the investigations and litigation resulting from noncompliance with the Connally "Contraband Oil" Act. Many of the records in these files were compiled as evidence and exhibits for the litigation proceedings.

Also includes records relating to the enforcement of subpoenas, budget appropriations for Connally Act enforcement, Connally Act compliance activities in 1966, and oil fields exempt from reporting requirements under Connally Act regulations (1962). Also statistical summaries of tanker and barge commercial shipments of petroleum products from the Gulf Coast (1947-64); a publicity file for 1965-66 that includes photocopies of newspaper clippings; and a binder containing a compilation of certain pleadings and decisions from contested Connally Act litigation, assembled to present pertinent issues raised in the administration and enforcement of the act.

679. GENERAL RECORDS. ca. 1937-71. 4 ft.

Arranged by subject or type of record.

Correspondence, memorandums, handwritten notes, statistical summaries, monthly reports, speeches, press releases, handbooks, aerial photographs, and other records concerning implementation of Connally Act regulations, amendments to the regulations and re-delegations of authority; cooperation with other Federal Agencies, especially the Department of Justice; slant-well and trucking investigations; management and staffing of district offices; and transfer of the functions of the Federal Petroleum Board to the Branch of Connally Act Compliance in 1963.

Also included is a case docket showing the disposition of Connally Act violation cases (K-05000 to K-05935); exhibits and background material relating to a "Mineral Disposal Study" (1966) compiled by a task group studying the pricing and disposal of federally owned mineral resources; and records concerning the suspension of enforcement of Connally Act regulations by the Federal government and subsequent disposition of records maintained by the district offices. Most of the inquiry letters received after the branch was abolished were filed in this series.

#### Alaskan Branch, 1899-1996

The Division of Alaskan Mineral Resources, established in 1903 within the Geologic Division, was the only major unit of the USGS organized to work in a specific geographic area. In 1922 the Division was separated from the Geologic Branch and given branch status. The title of the new Branch's chief was changed from Geologist-in-charge to Chief Alaskan Geologist. The Branch of Alaskan Mineral Resources was renamed the Alaskan Branch in 1925 by Survey Order 118. As the unit's field parties conducted geologic and topographic studies, and then water-resource investigations, in effect it was a small version of the USGS. The Alaskan Branch was abolished in 1946 and its functions in geology, topography, water resources, and public-land classification were distributed to the appropriate operational units of the USGS. In addition to the Branch records described below, records concerning USGS work in Alaska are described in the records of the Staff Geologist for Territories and Island Possessions, entry 60; the records of the Division of Alaskan Mineral Resources, entries 216 and 217; records concerning the Aleutian Volcano Project, entry 249; the records of the Alaskan Geology Branch, entries 258-265; records concerning the Alaska Terrain and Permafrost Section of the Military Geology Branch, entry 285; and records concerning Land and Stream Classification, entry 675.

#### 680. CENTRAL FILES OF THE ALASKAN BRANCH. 1899-1952. 2.5 ft.

Arranged according to a decimal-classification scheme, and thereunder roughly chronologically. A file concerning the termination of the Branch follows the main files.

Correspondence, memorandums, monthly and annual reports, technical and progress reports, statistical tables and summaries, handwritten notes, completed field-work report forms, press releases, newspaper clippings, lists of manuscripts and maps in preparation, travel vouchers, maps, and other records concerning the administration and programs of the Alaskan Branch. Specific projects covered are Public Works Projects No. 69, special mapping work, and No. 162, for mineral-resources surveys; an aerial-survey expedition in 1926 in cooperation with the Navy Department; and land surveys at Yakutat and Annette Island in 1940 in cooperation with the War Department. Also contains records on mapping activities in Alaska furnished by the USGS to the Federal Board of Surveys and Maps and the Science Advisory Board's Committee on Mapping Services; and reports of meetings from the Board of Surveys and Maps (1931-39).

Of particular interest are the monthly and annual reports, and reports of field work, dating from 1899, that concern geologic and topographic projects; Alaska mining development; cooperation with other Federal agencies, such as the Forest Service, the Alaska Road Commission, and the Bureau of Biological Survey; maintenance of a testing lab at College, Alaska; appropriations and allotments for Alaska projects; personnel matters; and publications. A file, dated 1946-52, relating to the termination of the Branch in 1946 was added subsequently by John Calvin Reed (Sr.).

#### 681. ADMINISTRATIVE CORRESPONDENCE CONCERNING JOHN CALVIN REED (SR.). 1931-38. 2 in.

Arranged chronologically.

Included are letters reporting on progress of work, copies of letters of instruction to Reed, telegrams, requests for supplies, abstracts of allotments and expenditures, tabulations of field expenses, and an injury claim. The two files concern Reed's activities as associate geologist for the Alaskan Branch, 1932-1941. The files were maintained in the Washington, D.C. offices of the USGS.

Office files of John C. Reed (Sr.) as Staff Geologist are described in entry 60.

682. ALASKA ALPHABETICAL MAP FILE. ca. 1892-1944. approx. 400 items. [NWCS, maps and plans]

Arranged alphabetically by name of nearest large town or geographical feature.

Included are tracings, blueprints, annotated published maps, metal mounts, and planetable sheets. Some of the maps originated with the General Land Office and the Coast and Geodetic Survey. The maps concern regional topography, townsites, railroads, water-power reconnaissance surveys, coal lands, coal-land claims, and related subjects. There are also maps showing roads and trails, 1941-42 (Juneau); and a large map showing Glacier Bay and adjacent glaciers, 1892, by Henry F. Reid (Mt. Fairweather). Of particular interest are two envelopes of sketches, with diary notes on the reverse of a few of the sketches, compiled by Ernest de K. Leffingwell in connection with his survey of the Arctic coast of Alaska, about 1910-13. The envelopes are labeled Flaxman Island and Beechey Point. A map titled "Barrow Point and Port Moore, 1853," and stamped "E. de K. Leffingwell" is filed under Barrow Point.

683. ALASKA DECIMAL MAP FILE. ca. 1898-1941. approx. 850 items. [NWCS, maps and plans]

Arranged by decimal numbers. It is not known who assigned the decimal numbers or the significance of the numbers. There is no correlation between these decimal numbers and the decimal file system used for the Central Files of the Alaska Branch.

The records are in the form of manuscript maps, blueprints, planetable sheets, annotated published maps, and metal mounts. Included are contour maps, geologic-reconnaissance maps, reference maps from the Coast and Geodetic Survey, parts of quadrangle maps, topographic-reconnaissance maps, and tactical maps compiled by the Army Corps of Engineers in 1940-41 (file 21.1). The subjects include highway routes, river systems and headwaters, regions of Alaska, mining districts, glaciers, areas explored by seasonal survey parties, positions of camera stations, and naval petroleum reserves. Some of the maps carry information on both sides.

684. MISCELLANEOUS MANUSCRIPT MAPS OF ALASKA. ca. 1900-1940. approx 100 items. [NWCS, maps and plans]

Some of the maps are arranged in groups by name of quadrangle. The remainder are unarranged.

Included are annotated printed maps, sketches, planetable sheets, and blueprints. Subjects include the route of the Harriman Expedition (1899), telegraph stations, mountain ranges, and railroad lines. Of particular interest is a copy of a "Chart of part of the North West Coast of America from Point Rodney to Point Barrow by Captain F[rederick]. W. Beechey, R.N., F.R.S., in His Majesty's Ship *Blossom*," 1826-27.

685. PUBLISHED MISCELLANEOUS MAPS OF ALASKA. ca. 1902-96. 26 items. [NWCS, maps and plans]

Arranged by assigned number.

The items include a map showing the locations of aviation fields (existing and proposed) and route of a proposed international highway; the location of the proposed route of the Pacific Yukon Highway; locations of air fields, hydroplane landings, and a zeppelin field near Fairbanks; topography of the Mt. McKinley region, Copper River and Chistochina River Region, and headwaters of the Copper and Tanana Rivers; topographic-reconnaissance maps of Seward Peninsula and the Innoko-Iditarod region. Other subject areas covered by the maps include the status of geologic surveys, locations of gold and coal deposits, and locations of national-interest lands. Most of the maps in this series were collected by the Alaskan Branch and its predecessor the Division (later Branch) of Alaskan Mineral Resources. A few later miscellaneous items relating to Alaska were placed with these records because of the similar subject matter.

686. PHOTOGRAPHS OF SUBJECTS IN ALASKA. ca. 1912-41. 1.5 in. 1 album.

Arranged by subject. There is a general table of contents. This is series AL (NWCS, still pictures).

The first part of the album contains photographs taken by Merl La Voy when he accompanied the Parker-Browne Expedition on a climb of Mt. McKinley in 1912. La Voy sent the photographs to the USGS in 1924.

Other photographs of subjects in Alaska taken by various photographers fill the remainder of the album. The subjects include commercial vessels, railroads, towns, residents, scenery, glaciers, mines, and earthquake damage. A few of the photographs were taken from an airplane.

## Appendix 1

### Select List of Legislation

March 3, 1879 (20 Stat L., 394-395), created the USGS and terminated the three ongoing geological and geographical surveys (predecessor surveys) led by Ferdinand V. Hayden, John W. Powell, and George M. Wheeler

August 7, 1882 (22 Stat L., 329), directed the continued preparation of a geological map of the United States; the collection of statistics about mines and mining; and the conducting of chemical analyses of iron, coal, and oil

July 7, 1884 (23 Stat. L., 212), provided that scientific employees of the USGS be selected exclusively for their qualifications as professional experts

March 3, 1887 (24 Stat. L., 527), required the USGS hereafter to itemize its estimates (requests for appropriations)

March 20, 1888 (25 Stat. L., 618-619), authorized the investigation of the feasibility of constructing reservoirs for the storage of water in the arid regions of the United States

October 2, 1888 (25 Stat. L., 526-527), authorized the investigation of “the extent to which the arid regions of the United States can be redeemed by irrigation, and the segregation of the irrigable lands in such arid region, and for the selection of sites for reservoirs and other hydraulic works necessary for the storage of water and prevention of floods and overflows” (resulted in the creation of the Irrigation Survey); an appropriation for the compilation of the report on the mineral resources of the United States; and extended paleontological, and physical chemical researches; and geologic and topographic surveys in various parts of the United States

August 30, 1890 (26 Stat. L., 391), repealed the provisions of the act of October 2, 1888, establishing the Irrigation Survey

March 3, 1891 (26 Stat. L., 1103), provided for the establishment of forest reserves

April 12, 1892 (27 Stat. L., 395), provided that the facilities for research and illustration of the USGS and other agencies be made accessible to scientific investigators and to students of institutions of higher education incorporated by Congress or the District of Columbia

July 31, 1894 (28 Stat. L., 197), authorized the Secretary of the Interior to name one of the geologists to act as Director of the USGS in the absence of the Director

August 18, 1894 (28 Stat. L., 398), appropriated funds for “gauging the streams and determining the water supply of the United States, including the investigation of underground currents and artesian wells in arid and semiarid sections”

March 2, 1895 (28 Stat. L., 939), provided for the investigation of the coal and gold resources of Alaska

February 26, 1896 (28 Stat. L., 683), provided for the classification of mineral lands situated as part of grants to the Northern Pacific Railroad in Idaho and Montana

May 14, 1896 (29 Stat. L., 120), provided for rights-of-way for reservoirs, canals, and electric power generation, manufacture, or distribution

June 11, 1896 (29 Stat. L., 435), provided that in topographic surveys elevations be determined and marked on the ground by iron or stone posts or permanent bench marks

June 4, 1897 (30 Stat. L., 34), provided for the survey of public lands that have been or may be designated as forest reserves

June 17, 1902 (32 Stat. L., 388), the “Newlands Act” created a reclamation fund; the Reclamation Service was established within the USGS on July 8

February 4, 1904 (33 Stat. L., 33), provided for analyzing and testing of coals and lignites to determine their fuel values and most economic utilization

February 1, 1905 (33 Stat. L., 628), provided for the transfer of the administration of forest reserves to the Department of Agriculture and its Bureau of Forestry (established as a Division in 1881); the USGS retained topographic and special surveys of the forest reserves until the line item was merged with the general topographic surveys in 1918

May 22, 1908 (35 Stat. 226), provided for investigations of the causes of mine explosions and led to the creation of the Technologic Branch

May 27, 1908 (35 Stat. L., 349), provided for continuing the chemical analysis and testing of coal, lignites, and other mineral fuels; and continuing the investigation of structural materials

February 19, 1909 (35 Stat. L., 639), Enlarged Homestead Act

May 16, 1910 (36 Stat. L., 370), created the Bureau of Mines, principally by transferring the Technologic Branch; structural-materials testing passed to the Bureau of Standards

March 1, 1911 (36 Stat. L., 961-963), the “Weeks Act,” provided for the protection of the watersheds of navigable streams and created the National Forest Reservation Commission

July 17, 1914 (38 Stat. L., 509-510), withdrew from agricultural entry lands classified or reported as containing phosphate, nitrate, potash, oil, gas, or asphaltic materials

June 9, 1916 (39 Stat. L., 219), provided for the examination and classification of the Oregon and California Railroad Company’s land-grant lands and other grants of rights-of-way or use permits whose titles revest in the U.S. Government

August 21, 1916 (39 Stat. L., 518), provided for the location, development, and protection of desert-watering places

December 29, 1916 (39 Stat. L., 862), the “Stock-Raising Homestead Act”

June 12, 1917 (40 Stat. L., 145), provided for the examination and classification of lands to determine their suitability for enlarged homesteads, stock-raising homesteads, public-watering places and stock driveways; and the location, development, and protection of springs, streams, and water holes on arid public lands

October 1, 1917 (40 Stat. L., 297), the “Potash Leasing Act” - provided for the exploration and disposition of potassium deposits

July 1, 1918 (40 Stat. L., 669), directed the USGS to conduct for the War Department (WD) special topographic and other surveys selected by the WD

February 25, 1920 (41 Stat. L., 437), the “Mineral Leasing Act”

June 5, 1920 (41 Stat. L., 910-911), created the Superpower Survey “for a survey of power production and distribution”

June 10, 1920 (41 Stat. L., 1063), the “Federal Water Power Act” created the Federal Power Commission

September 22, 1922 (42 Stat. L., 1023), created the United States Coal Commission

February 27, 1925 (43 Stat. L., 1011), the “Temple Act” directed the USGS to enter into cooperative agreements with the States to complete a topographic map of the United States within 20 years

May 18, 1933 (48 Stat. L., 58), created the Tennessee Valley Authority

June 16, 1933 (48 Stat. L., 195), the “National Industrial Recovery Act”

June 28, 1934 (48 Stat. L., 1269), the “Taylor Act” passed to “stop injury to the public grazing lands”; the Agricultural Division of the USGS Conservation Branch was transferred in 1935 to the Grazing Service

February 22, 1935 (49 Stat. L., 30), the “Connally Act” regulated interstate and foreign commerce in petroleum and its products

August 26, 1935 (49 Stat. 838), amended the “Federal Water Power Act” of 1920

April 26, 1938 (52 Stat. L., 235), authorized “the procurement and transportation of strategic and critical materials” to be determined by the Secretary of the Navy

June 20, 1938 (52 Stat. L., 816), continued the Public Works Administration (PWA) and appropriated funds for surveys and mapping by Federal agencies to be administered by the PWA

December 24, 1942 (56 Stat. L., 1086), allowed the acquisition of lands for stream-gaging stations

August 1, 1946 (60 Stat. L., 755), the “Atomic Energy Act” provided for the withdrawal of lands bearing radioactive ores

January 27, 1948 (62 Stat. L., 6), the “United States Information and Educational Exchange Act”

April 3, 1948 (62 Stat. L., 137), the “Foreign Assistance Act”

September 8, 1950 (64 Stat. L., 798), the “Defense Production Act”

October 10, 1951 (65 Stat. L., 373), the “Mutual Security Act”

July 9, 1952 (66 Stat. L., 454), restricted the USGS share of topographic mapping or water-resource investigations in cooperation with States or municipalities to not more than 50 percent of cost

May 22, 1953 (67 Stat. L., 29), the “Submerged Lands Act” provided for United States jurisdiction over the lands and natural resources of the Continental Shelf

August 7, 1953 (67 Stat. L., 462), the “Outer Continental Shelf Lands Act” provided for the leasing of lands of the continental shelf for the exploration for and development of mineral resources

August 4, 1954 (68 Stat. L., 666), the “Watershed Protection and Flood Protection Act”

August 13, 1954 (68 Stat. L., 708), the “Multiple Mineral Development Act”

August 21, 1958 (72 Stat. L., 700), the “Minerals Exploration Act”

August 23, 1958 (72 Stat. L., 837), extended the authorization for USGS work to Antarctica and the Trust Territory of the Pacific Islands

August 28, 1958 (72 Stat. L., 959), the “Federal Employees International Organization Service Act”

September 4, 1961 (75 Stat. L., 424), the “Act for International Development”

September 5, 1962 (76 Stat. L., 427), expanded the authorization for the USGS to work outside the national domain

September 3, 1964 (78 Stat. L., 890), the “Wilderness Act”

July 22, 1965 (79 Stat. L., 244), the “Water Resources Planning Act”

October 15, 1966 (80 Stat. L., 951), authorized contracts for scientific and technical research

October 27, 1972 (86 Stat. L., 1280), the “Coastal Zone Management Act”

December 31, 1973 (87 Stat. L., 975), the “Flood Disaster Protection Act”

September 3, 1974 (88 Stat. L., 1079), the “Geothermal Energy Research, Development, and Demonstration Act”

April 5, 1976 (90 Stat. L., 303), the “Naval Petroleum Reserves Protection Act”

October 7, 1977 (91 Stat. L., 1098), the “Earthquake Hazards Reduction Act”

September 17, 1978 (92 Stat. L., 601), the “National Climate Program Act”

December 30, 1982 (96 Stat. L., 1972), authorized the USGS “to accept lands, buildings, equipment, and other contributions from public and private sources and to prosecute projects in cooperation with other agencies, Federal, State, or private”

January 7, 1983 (96 Stat. L., 2201), the “Nuclear Waste Policy Act”

March 10, 1983 (97 Stat. L., 1557), established the “Exclusive Economic Zone [EEZ] of the United States of America” and yielded a USGS program to map the EEZ

March 22, 1984 (98 Stat. L., 97), the “Water Resources Research Act”

July 17, 1984 (98 Stat. L., 451), the “Remote Sensing Commercialization Act”

July 17, 1984 (98 Stat L., 468), the “Barrow Gas Field Transfer Act”

September 28, 1984 (98 Stat. L., 1675), the “High Plains States Groundwater Demonstration Program Act”

December 22, 1987 (101 Stat. L., 1407), the “Global Climate Protection Act”

September 22, 1988 (102 Stat. L., 1760), the “Continental Scientific Drilling and Exploration Act”

November 16, 1990 (104 Stat. L., 2975), the “Antarctic Protection Act”

November 16, 1990 (104 Stat. L., 3096), the “Global Change Research Act”

May 18, 1992 (106 Stat. L., 171), part of the “National Geologic Mapping Act” (106 Stat. L., 166), confirmed language in the Interior Department Appropriation Act of November 13, 1991 (105 Stat. L., 1000), renaming the Geological Survey the United States Geological Survey

October 28, 1992 (106 Stat. L., 4163), the “Land Remote Sensing Policy Act”

October 30, 1992 (106 Stat. L., 4693), the “Western Water Policy Review Act”

April 26, 1996 (110 Stat. L., 1321-165), transferred the National Biological Service’s funds to the USGS. The statute also gave the USGS the U.S. Bureau of Mines’ authority “to conduct mineral surveys and to determine mineral values”

August 5, 1997 (111 Stat. L., 1107), the “National Geologic Mapping Reauthorization Act”

## Appendix 2

### Office of the Director - Correspondence and Related Records, ca. 1906-48 (entry 49)

Accounts, Division of, 1906-19  
Addresses, Speeches, 1908-47  
Administrative Geologist, 1906-30  
Anniversary (40th) of the Geological Survey, 1919  
Auction Sales - Pacific Division, 1925  
Budget and Administrative Letters, 1928, 1945-48  
California Cooperation (Audit of funds disbursed by James R. Gaskill from the State of California Cooperative Account and other Accounts), 1923-25  
California Cooperation - Data (bank statements) [related to audit], 1923-24  
Coal, 1907-11, 1929  
Coal Commission - United States, 1923-29  
Comptroller General of the United States, 1926, 1939, 1942-43  
Conference - Other Departments (cooperation with the General Land Office and the Forest Service), 1908-13  
Congressional thanks for Federal Activities, 1928-29  
Conway Controversy [resignation of two clerks, sisters surnamed Conway], 1920  
Cooperation - Federal, [includes a report by Robert B. Marshall on Glacier National Park], 1908-37  
Cooperation with States, 1908-32  
Distribution of Survey Publications, 1916-23  
Engraving and Printing, 1915-23  
Executive Division (Business Methods, Regulations, Personnel), 1910-11  
"Fiscal Regulations of the United States Geological Survey" [Manuscript copy, no date]; other records in file concerning expenditures, 1917-19  
[Louis G.] Freeman Case [regarding a promotion], 1919-20  
Geology, 1907-23  
Humor [facetious letters and comments], 1909-32  
Illustration Section, 1909-22  
Insurance, 1926  
Land Classification and Withdrawals, 1907-29  
Land Classification Board, 1917-22  
Laws relating to the Geological Survey [typescript and printed copies], 1879-1912 with gaps  
Legislation regarding land, 1911  
Letters Unanswered, personal dictation, 1904-12  
Library [includes an index to the classification scheme of the USGS Library dated 1909], 1909-22  
Library Hours, 1911-21  
(Geologic) Map Editing, 1910-18, 1937  
(Topographic) Map Descriptions, 1916-21  
(Topographic) Maps, 1911-30  
Memorandums [regarding file maintenance], 1915-19  
Mineral Resources, 1908-27, 1937 & 1943  
Newspapers Clippings titled "Uncle Sam at Your Service" regarding work of the Geological Survey, 1930  
Miscellaneous Official Correspondence, 1905-9  
Numerical File [appropriations and statements of work], 1918-20  
Oil, 1910-33  
Oil (Naval Reserve No. 3, Teapot Dome) [Missing]

Opportunities Report [an outline of a proposed report by van Bloch titled "Statement of Opportunities for Economic Growth in Relation to Departmental Programs"], 1946  
 (Survey) Orders, 1908-25  
 Orders, Department, 1912-42  
 (Survey) Organization, 1908-32  
 Personnel [2 folders], 1907-43  
 Personnel Committee, 1915-39  
 Photographic Laboratory, 1915-19  
 Photographs [missing]  
 Pinchot - Ballinger, 1908-10  
 Policy, 1907-31  
 Publications, 1909-42  
 Relations with the Public, 1907-30  
 Subject Classification Scheme, Central Classified Files, 1912 [several annotated copies]  
 Subsistence Costs, n.d.  
 Supplemental Estimate [of appropriation], 1917  
 Survey, Committee on Revision of the Regulations, 1918 [out of order because of size, filed in box 7]  
 Telegrams and Correspondence, 1924 [regarding California Cooperation audit]  
 Texts, 1911-12  
 Topography, 1907-31  
 "United States" in title of Geological Survey, 1937  
 Vouchers and Invoices [regarding California Cooperation audit, with 4 folders concerning accounts]  
 Water Power, 1909-14  
 Water Resources, 1915-29  
 Yosemite Valley [typescript copy of "The Physical History of the Yosemite Valley" by François E. Matthes], 1922

## Appendix 3

Office of the Director - Central Classified Files, 1912-53 (entry 51)

\* Indicates that part of the file is boxed separately from the main series

\*\* Indicates that the entire file is boxed separately from the main series

Titles in *italic* are added to provide clarity, no file exists

### 000 GENERAL (Miscellaneous)

#### 000 General

- 001 Commendations of work of Survey
  - 001.01 Recommendations, commendation of outside parties, firms by the Survey
    - 001.1 Outside individuals, organizations, businesses, and agencies
    - 001.2 Bouquets
    - 001.3 Commendations, congratulations, endorsements by the Survey
- 002 Criticisms of the work of Survey
  - 002.1 From individuals outside the Survey
  - 002.2 From within the Survey
- 003 Complaints, nuisances, suggestions, etc
  - 003.1 By the Survey
  - 003.2 Against the Survey
  - 003.3 Within Survey
- 004 Requests for interviews with Survey officials
  - 004.1 Interviews, etc. asked for by Director (empty folder)
  - 004.2 Interviews arranged by Director with Gov[er]nment]. officials, etc. for others (empty folder)
- 005 Invitation received by Director and other Survey Officials
  - 005.1 Director asked to suggest officials to serve on committees, etc.
  - 005.2 Invitations of Director to others (empty folder)
- 006 Introductions, Guests of Survey, Invitations to Associations., etc. to visit
  - 006.1 Introductions, etc., by Director or Survey to others
- 007 Donations made to Survey (all kinds)
- 008 Miscellaneous and unclassified correspondence; legislation to eliminate illiteracy; Spanish Influenza; Institute for Government Research; and processed issuances titled - "Personnel Notes"
- 009 Lunch facilities
- 010 Miscellaneous Requests
  - 017\*\* For Survey employees to work for private firms
- 020 Congressional Legislation
  - 021 Re: bills to Create Board of River Regulations and to regulate water power projects
  - 023 Mineral Control Act (1918)
  - 024 Resolutions, Acts of States, Territories, etc. (alphabetically by organization, State, locality or individual)
  - 025 Re: legislation concerning the budget, programs and policies of the Survey (general files, followed by subject files in alphabetical order, followed by bill files arranged by branch of Congress and thereunder by bill number, without regard to session or date)
- 030 *Publicity*
  - 031 Requests for Press Notices and processed copies of press notices
    - 031.1 Press bulletins and processed copies of press releases
  - 033 Publication of articles before release date
    - 033.1 Complaints and other correspondence [empty folder]

- 033.2 Unpublished information to be considered confidential, loan of manuscripts, advance information, policy as to giving out information
- 034.01\*\* Radio interviews and series
  - 035.1\*\* Correspondence with George W. Parsons regarding desert watering place work
- 040 Congresses, Conventions, Expositions, Conferences (general files followed by files arranged alphabetically)
- 044 Personnel Classification Board and job classifications
  - 044.07 Joint Commission on Reclassification of Salaries
    - 044.071 (files organized job category) i.e. typing, law, engineering
- 070 Library
  - 071 Books, documents, publications, etc.
    - 071.1 Loaned to others by Survey
  - 073 Re: Geological Depository Libraries
  - 074 Courtesies of the Library extended others by Survey
  - 077 Exchange privileges
  - 078 Translations
- 080 Scientific Discoveries, claims of
  - 081 Re: Patents by Survey Employees (arranged alphabetically by surname of employee)
  - 081 Patent for Willard D. Johnson Tripod Heads (oversize file in box 533)
  - 082 Re: Survey to sent representatives to witness demonstrations of inventions
  - 083 Use of Landin Float-Letter Method

## 100 ADMINISTRATIVE

### 100 *Administrative*

- 100.01\* Survey History; Organization; Reorganization; Inspection; and Civil Defense
- 100.01\*\* Surveying and Mapping Consolidation
- 100.01A\*\* National Academy of Science Plan for Reorganization of Surveys
- 100.01B\*\* Dockery Commission Recommendation to create U. S. Survey
- 100.01C\*\* Consolidation of surveying Division of GLO and Topographic Branch of Geological Survey
- 100.01D\*\* Plan for a Bureau of Surveys and Maps
- 100.01E\*\* Report of the Joint Committee on Reorganization of the Executive Departments
- 100.01F\*\* Transfer of Geodetic Work of Coast Survey to Geological Survey
- 100.01G\*\* Transfer of Topographic Branch of Geological Survey to Coast and Geodetic Survey
- 100.01H Consolidation of the Departments of Interior and Agriculture
- 100.01I Transfer of Mineral Leasing
- 100.01J Transfer of Geophysical Research to Survey
  - 100.1 Administration of Labor Force; functions of Branches
  - 100.2 Administration of Clerical Force
  - 100.3 Administration of Messenger Force
  - 100.5 Administration of the Library
  - 100.6 Administration of Section of Field Equipment
- 101 Debts of Employees
- 102 Credential and Identification cards, passes
  - 102.1 Passes
  - 102.2 Permission to take packages from the building
  - 102.3 Credentials and Identification cards
  - 102.4 Survey personnel under arrest
- 103 Handling and Filing of Correspondence
  - 103.1 Correspondence re: files and filing systems
    - 103.12\* Destruction of useless papers
    - 103.14 Certified copies of records, records loaned

- 103.2 Handling of Correspondence
  - 103.21Methods of procedure, plans for handling, reference of and form of letters
  - 103.22Correct grammar, phrases, position titles
  - 103.23Letters requiring special attention, response time to letters
  - 103.24Translations of letters requested of other Bureaus, Departments, etc (empty folder)
  - 103.25Use of clips
  - 103.26Transmitting extra carbon copies of letters
  - 103.28Endorsements on correspondence
  - 103.32Referral of letters within Survey
  - 103.34Routing of letters, documentation regarding
  - 103.35Referral of letters to other agencies
  - 103.37Routing slips
- 103.4 Instructions for preparing a letters for the Secretary's signature
- 103.6 Delegations of Authority
- 104 Multigraphing, Mimeographing, Hecktographing, etc.
- 105 Creation of new positions, assignment of duties and changes in positions
  - 105.1 Assignment of duties
- 107 Law and authority governing operations of Geological Survey
- 108 Extra copies of letters in which the Director is interested
  - 108.1 Letters to Director during his absence re: office matters (from Survey Chiefs)
  - 108.2 Letters written by the Director to branch chiefs and other while away or just prior to his leaving
  - 108.3 Letters from men in the field or on trips
  - 108.4 Letters to the Director
- 109 Memoranda signed by Chief, Executive Division
- 110 *Relations with Departments, Independent Offices (not including cooperation)*
  - 110.1 Smithsonian Institution and Museum
    - 110.11Survey doing work for Smithsonian
    - 110.12Re: International Exchange Service
    - 110.13Smithsonian does work for Survey
    - 110.14Smithsonian requests information
    - 110.15Specimens, etc., deposited with the National Museum for exhibition
  - 110.2 Commerce, Department of
    - 110.21Plans for joint investigations between Standards or other Bureaus and Survey
    - 110.22Work done for Department and its bureaus
    - 110.24Commerce and bureaus to do work for Survey or offers to assist in work
    - 110.25Information furnished by Commerce and its Bureaus, copies of maps and records given
    - 110.26Information requested by Commerce and its bureaus or furnished by Survey
    - 110.27Survey asked to prepare examination for position in
  - 110.3 Panama Canal
  - 110.4 U. S. Boundary Survey (International Boundary Commission, Alaskan Engineering Commission, Alaska Railroad)
  - 110.5 Labor, Department of
    - 110.51Tables, statements, information, etc., furnished Labor (including monthly reports of contracts for work in buildings, etc.)
    - 110.53Work done for Labor
  - 110.6 District of Columbia
  - 110.7 Interstate Commerce Commission
    - 110.71Information requested of Interstate Commerce Commission
    - 110.72Official Bulletin
  - 110.8 White House (Executive Offices)
  - 110.9 Correspondence with foreign embassies and Consular Offices

- 110.10 Federal Trade Commission
- 110.111 General, Council of National Defense
  - 110.111A Miscellaneous (arranged alphabetically by surname of individual)
  - 110.111B Mineral and mineral products
  - 110.111C Council of National Defense and War Industries Board
  - 110.111D National Research Council
  - 110.111E National Defense Council
  - 110.111F National Archives and Federal Register
- 110.112 National Advisory Committee for Aeronautics
- 110.113 Bureau of Efficiency
  - 110.113A Efficiency Ratings
  - 110.113B Duplicate Work
  - 110.113C Recommendations
- 110.114 U. S. Tariff Commission
- 110.115 Committee on Public Information
- 110.116 Food and Fuel Administration
- 110.117 Pan American Union
- 110.118 U. S. Shipping Board
- 110.119 War Trade Board
- 110.120 Capital Issues Commission
- 110.121 U. S. Railroad Administration
- 110.122 Veterans Bureau
- 110.123 Coal Commission
- 110.124 Public Buildings and Public Parks
- 110.125 Federal Power Commission
- 110.126 Architect of the Capital
- 110.127 Federal Civil Works Administration
- 110.1271 Federal Emergency Relief Administration
- 110.128 Tennessee Valley Authority
- 110.129 Emergency Conservation Work
- 110.131 Public Works Administration, General
- 110.132 Public Works Administration, Estimates and Allotments; Emergency Relief Appropriations
- 110.134 Public Works Administration, Secretary's Orders
- 110.135 Public Works Administration, Reclamation, Boulder Dam Investigation
- 110.135 Public Works Administration, Mississippi Valley Committee
- 110.135 Public Works Administration, Cooperation with Departments
  - 110.1351 Public Works Administration, Cooperation with Branches in Survey
- 110.136 Public Works Administration, Requests by States (alphabetically by State or Territory)
- 110.137 Public Works Administration, Purchase of Supplies, Equipment
  - 110.138A Public Works Administration, Personnel Procedure, General
  - 110.138B Public Works Administration, Personnel Procedure, Internal Instructions and Details
  - 110.138C Public Works Administration, Personnel Procedure (alphabetically by individual surname)
- 110.140 Public Works Administration, General
- 110.140 Public Works Administration, Miscellaneous Reports
- 110.140 Public Works Administration, Monthly Progress Reports
- 110.140 Public Works Administration, Monthly Reports on Expenditures
- 110.140 Public Works Administration, Form ES 118

- 110.140 Public Works Administration, Monthly Apportionments
- 110.140 Public Works Administration, Report of Obligations and Impounded Savings, Form B
- 110.140 Public Works Administration, Report of Allocation from PWA Form 235
- 110.140 Public Works Administration, PWA Form 236
- 110.140 Public Works Administration, Reports to Federal Employment Stabilization Board
- 110.140 Public Works Administration, Miscellaneous Reports
- 110.140 Public Works Administration, U. S. Employees Compensation Commission
- 110.141 National Recovery Administration
- 110.142 Public Works Administration, Code of Fair Competition for the Petroleum Industry and Petroleum Administrative Board
- 110.142 Public Works Administration, Petroleum Board, Press Releases
- 110.142 Public Works Administration, Circulars
- 110.142 Public Works Administration, Bulletins
- 110.142 Public Works Administration, Press Releases
- 110.142 Public Works Administration, Information requested by or furnished
- 110.142 Public Works Administration, Detail of Employees
- 111 Interior Department
  - 111.1 Survey asked to consider employees for vacancies who are to be dropped because of reduction in force, appropriation etc.
  - 111.2 Survey requested to furnish certified copies, copies of files, employees to testify, etc., within the Department
  - 111.3 Complaints, criticism, suggestions, etc., made by Director or Survey to other Bureaus
  - 111.4 Courtesies extended to Survey field parties, etc.
  - 111.5 Other Bureaus doing work for Survey
  - 111.6 Survey doing work for other bureaus (also see Cooperation) [general files followed by files arranged alphabetically by name of bureau, office or other organizational unit with the Department]
  - 111.7 Survey requested to verify figures, statements, etc., for Departments or bureaus, information furnished (articles furnished for Bureau publications)
    - 111.71 Survey requests information from other Bureaus
  - 111.8 Overlapping of work, decisions, correspondence, etc., as to whether work comes under Survey or not, joint correspondence on matters relating to more than one bureau
    - 111.82 Survey asks permission to use information obtained by other bureaus in Survey reports, publications, joint publications
- 112 *Justice, Department of*
  - 112.1 Opinions of Attorney-General; Solicitor or Assistant Attorney General for Interior
  - 112.2 Requests for investigations with view toward prosecution; employees to give opinions or to make examinations; or testify
    - 112.21 Information requested by Justice, or work requested by it or done for it
  - 112.3 Survey requested to furnish certified copies, statements, etc.
  - 112.5 Justice asked to prosecute theft, depredation cases, etc. for Survey
  - 112.6 Justice asked to represent Survey men against whom charges have been made
  - 112.9 Information requested of Justice by Survey (incl. use of Justice Library)
- 113 Post Office Department
  - 113.1 Requests by Survey to make investigations; fraudulent use of mails
  - 113.2 Requests made by P. O. for investigations of alleged illegal holdings
  - 113.5 P. O. objects to Survey accepting stamps for payment of maps
  - 113.6 Requests that Survey do work for Post Office
  - 113.7 Postmasters to act as agents for sale of maps, authority
- 114 Treasury Department
  - 114.1 Opinions of Comptroller

- 114.11 Social Security Tax
- 114.12 General Accounting Office Circulars and Regulations
- 114.2 Free entry form customs for goods for use of Survey, exception from interference
- 114.41 Courtesies to be shown parties of other countries at Survey request
- 114.6 Requests for detail of employees to make investigations
- 114.7 Work done for Survey or information furnished it
- 114.72 Treasury Agents posing as members of field parties to make investigations
- 114.81 Requests for Information
- 115 Civil Service Commission
  - 115.01 State Civil Service Commissions
    - 115.1 Examinations
    - 115.2 Promotion Examinations
    - 115.3 Civil Service Rules and Regulations
    - 115.5 Political Activities of employees
    - 115.6 President's Council on Personnel Administration; President's Committee on Civil Service Improvement
    - 115.9 Re: rating examination papers
- 116 State Department (including Commission for Equitable Distribution of Water of Rio Grande)
  - 116.1 Requests from State for documents, reports, data, etc., commendation of reports received by Survey
  - 116.2 Requested to take appropriate action toward meeting claims against U. S. for services, etc., on Associations, Congresses, etc.
  - 116.3 State requested to represent Survey on official matters abroad through Embassies
  - 116.4 Information requested by State Department
  - 116.5 Work done for State or Commission for Equitable Distribution of Water of Rio Grande; Rio Grande Compact Commission
  - 116.6 State Department requests that all correspondence with representatives of foreign governments be carried on through it and not directly
  - 116.8 Detail of Survey Employees
- 117 *Navy Department*
  - 117.1 Correspondence re: oil reserves in California for use of Navy
  - 117.2 Special Boards, Committees, etc, appointed by Navy Department
  - 117.3 Information requested by Survey of Navy Department
  - 117.5 Information requested by Navy Department, loan of maps
  - 117.6 Work done for Navy Department
  - 117.7 Work done by Navy (incl. sending communications through radio stations)
  - 117.8 Protection of mines by Navy
- 118 War Department (General; Special file regarding War information)
  - 118.2 Work done for War Department
    - 118.21 Survey requests assistance from War Department
  - 118.3 Requests Survey to recommend employees for positions
    - 118.31 Survey requested to consider War Department employees for positions
  - 118.32 Survey offers topographers, etc. to War Dept. for use in connection with Mexican trouble; suggest reserve of corps of professional men, etc.
    - 118.321 Recommendations for Professional Corps
    - 118.323\* Deferments; Selective Service Status
    - 118.325 Survey Employees who have entered military service
    - 118.326 Deaths of employees while in military service
  - 118.33 Registration of Survey employees for the draft
- 118.5 Use of information obtained from War Dept. by Survey; permission asked to take photographs in War Dept. reservations, etc., or do work on same for military reasons

- 118.6 Information requested by or furnished War Department
  - 118.61 Re: correspondence with Board of Officers on River Floods; conferences, cooperation etc.
- 118.7 Use of transports for transportation of Survey employees
- 118.8 Information requested by Survey of War Department
- 118.9 Request by War Department that publications be withheld temporarily
- 119 Agriculture Department
  - 119.2 Work done for Department or Bureaus
  - 119.3 Work done for Forest Service (including verification of records)
  - 119.4 Work done by Agriculture for Survey
    - 119.41 County agricultural agents to sell maps
  - 119.5 Information requested of Agriculture or furnished by it; corrections, etc. suggested by Forest Service
  - 119.6 Information requested by Agriculture
  - 119.7 Survey employees to testify as witnesses for agriculture, or detailed to or from Agriculture
- 120 Temporary Employment
- 121 Authorizations and correspondence re: authorizations
- 126 Reports of temporary employment
  - 126.1 Monthly reports
- 128 Re: wages paid in field parties of various branches, should be same grade of work
- 130 Administrative and Executive Reports
  - 130.1 Miscellaneous periodical reports of branches, etc.
- 131 Monthly reports of Chiefs of Branches to Director (alphabetically by Branch)
  - 131.1 Monthly reports of Executive Division
    - 131.14 Field Equipment
    - 131.15 Division of Field Equipment
- 132 Monthly report of Director to Secretary
- 133 Annual Report of Chiefs of Branches to Director
  - 133.1 Annual reports of Executive Division
- 134 Annual Report of Director to Secretary
- 135 Annual Report of Secretary to President
  - 135.1 Material furnished Secretary for his annual report
- 137 Other reports and material furnished Secretary
  - 137.1 Resume of useful and important work of Survey
  - 137.2 Plans for future work, including plan of operations of Survey
  - 137.5 Special articles, reports, statements prepared for Secretary or Department (alphabetically by subject)
- 138 Reports and material furnished the President
- 139 Reports and material furnished Congress or Congressional Committees
  - 139.1 House of Representatives
  - 139.2 Distribution of Publications
  - 139.3 Survey publications printed and distributed
  - 139.4 Number of employees who travel
  - 139.5 Reports on Congressional Hearings
- 140\* Boards and Committees
  - 141 Departmental Committees
    - 141.001 Coordination Committee files and reports
    - 141.01 Committee to Revise Travel Regulations, transportation matters
    - 141.02 Committee on the Central Tabulating Service
    - 141.03 Board for Disposal of Useless Property
    - 141.04 Joint Committee on Combining Surveying Work
    - 141.08 Water Resources Committee

- 141.10 Statistical Planning Committee
- 141.12 Program Committee
- 141.15 Committee on Publications
- 141.16 Special Oil Committee
- 141.17 Committee on Legislation
- 141.18 Defense Resources Committee
- 142 Survey Committees
  - 142.01 Personnel
  - 142.02 Budget Committees
    - 142.031 Condemnation of Property
  - 142.04 Committee on Library
  - 142.08 Advisory Committee to assist Director on matters in connection with new building
  - 142.10 Committee on Geologic Names
  - 142.13 Committee in charge of labeling and classification of lantern slides and photographs
  - 142.14 Committee on Field Equipment
  - 142.16 Millionth Map Committee
  - 142.18 Physiographic Committee
  - 142.20 Committee on Marginal Legends
  - 142.21 Fire Trespass
  - 142.23 Topographic Mapping Policy Committee
  - 142.24 Advisory Committee to U.S. Geological Survey
  - 142.25 General Staff Committee
  - 142.26 Management Services Committee
  - 142.27 Publication Committee
  - 142.28 Denver Survey Committee
  - 142.29 Survey Safety Committee
- 142.3 Property Board of Review
  - 142.30 Alaska Survey Committee
  - 142.31 Alaska Field Staff
  - 142.32 Foreign Activities Committee
  - 142.33 Geologist Staffing Committee
- 143 Presidential Committees
  - 143.1 President's Commission on Economy and Efficiency
    - 143.01 Committee on National Land Problems
    - 143.10 National Emergency Council
    - 143.11 National Defense Council
    - 143.12 Joint Research and Development Board
    - 143.13 National Minerals Advisory Council
    - 143.14 Water Resources Policy Committee
  - 143.2 U.S. Geographic Board
    - 143.21 National Resources Committee
  - 143.3 Board of Surveys and Maps
  - 143.4 Oil Commission
  - 143.5 Federal Oil Conservation Board
  - 143.7 President's Commission for the Conservation of the Public Lands
  - 143.8 The President's Employment Commission
  - 144.1 Joint Committee on Printing
- 145 Survey requested to designate representatives to attend conferences and meetings on subjects relating to Survey work

- 146 Interdepartmental Committees
  - 146.01 Interdepartmental Mineral Committee
  - 146.02 Interdepartmental Committee on Foreign Cooperation
  - 146.03 Interdepartmental Petroleum Committee
  - 146.07 Interdepartmental Committee on Aerial Surveying
  - 146.09 National Land Use Planning Committee
  - 146.10 Oil Pollution of Navigable Waters
  - 146.11 Sub-marginal Lands
  - 146.12 Committee on Alaska
- 150 Rules and Regulations
  - 150.1\* Director's Orders
    - 150.11 Administrative Circulars
  - 150.2 Chief Clerk's orders (Office orders)
  - 151\*\* Departmental Orders; draft of a Departmental Order on investigations of irregularities
- 152 Executive orders
- 160 Leave of absence (Correspondence re: General Regulations re: leave)
  - 160.2 Accrued leave
  - 160.3 Military leave and military camp leave
  - 160.4 Compensation to injured employees
  - 160.7 Miscellaneous leave statements for Department and others
- 161 Annual leave
  - 161.1 Tardiness (including excessive time taken for lunch and leaving work early)
  - 161.3 Credit for overtime work
- 162 Sick Leave; rules re: quarantine, etc.
- 163 Furlough and leave without pay; re: penalties therefore
- 164 Hours of labor, extension of, changes in, incl. field offices
- 165 Methods of charging, form of leave cards, time reports, and application, etc.
- 166 Special leave requested or granted employees to attend celebrations, reunions
- 167 Legal holidays, half holidays, State holidays
- 170 Mail
  - 170.1 Opened by Survey by mistake; not for Survey, or Survey employees
- 171 Registered and Special delivery
- 172 Unregistered
- 173 Complaints, suggestions, etc. (by Post Office)
  - 173.1 Complaints by Survey
  - 173.2 Complaints within Survey, suggestions, instructions
- 174 Special Reports, statements, etc. re: handling mail
- 175 Use of "Frank", decision re:, etc.
- 180 Personnel (Survey's policy with respect to personnel)
  - 180.02 Policy regarding recommendations
    - 180.1 Employees doing outside work
    - 180.2 Civil Service Commission regulations and procedures
    - 180.3 Probational Appointments
    - 180.4\* Policy of Survey re: employees having interest in mineral lands, holding stock, making investigations for private parties, testifying in courts
    - 180.5 Director's policy with respect to promotions
    - 180.6 Re: employees holding positions with States, Territories or Municipalities
    - 180.7 Re: payment of State or territorial taxes by members of Survey parties
    - 180.8 Re: uniformity of pay
    - 180.9 Re: photographs of employees
    - 180.10 Detailed employees and renewal of details

- 180.11Changes of name
- 180.12District System
- 180.13Re: transfer to and from other Departments
- 180.14Increase in Compensation
- 180.15Nominal Salary Employees
- 180.16Oaths of Office
- 180.17Separations from service and reinstatements
- 180.18Reductions on force
- 180.19Date of Birth; Change in Legal Residence
- 180.20Separations of Temporary Employees
- 180.21Physical Examination
  - 180.212 Fingerprints
- 180.22Apportionment
- 180.23Affidavits
- 181 Personnel matters to be handled by Executive Division; by Administrative Geologist
- 182 Accidents, disability or death of employees
  - 182.1 Reports of accidents, disability or death; compensation (alphabetically by surname of individual)
- 184 Persons not in Survey who claim to be or to have been; also requests for information as to whether persons have ever been, etc.
  - 184.1 Survey requests information re: person from outsiders
  - 184.2 Addresses of employees and addresses of persons to notify in case of an emergency
  - 184.3 Requests for addresses of, recommendations for former employees
  - 184.4 Requests for information about salaries and duties
- 185 Income Tax Information requested by States
- 186 Statistical statements, tables, and lists regarding personnel (alphabetically by subject - some of the subject files were removed, wholly or in part, from the decimal system shown below)
  - 186.01Afro-Americans in Survey
  - 186.02Employees charged to the first six districts of Pennsylvania
  - 186.03Showing State or Territory of employees of Survey working in D. C.
  - 186.08Lists of Geologists
  - 186.09List of employees whose wives or husbands are in government employ.
  - 186.12Colored persons certified for positions
  - 186.13Employees in Utah or Idaho appointed without examination
  - 186.14Addresses of Survey employees residing in Baltimore
  - 186.16Information re: salaries, work, titles, etc., for Rep. Buchanan, also for Rep. Campbell and Sen. Gore
  - 186.17List of those in charge of field parties in Oregon
  - 186.19Employees qualified to drive auto and motor trucks
  - 186.21Statement showing amount returned to Treasury is certain per cent of salary of employees was withheld
  - 186.22Employees transferred to or from Survey, July 1913 - October 1914
  - 186.23List, classified by States, of field officials of survey; list of field offices and number of employees
  - 186.25List of messengers and messenger boys in Survey, number under 21 years old
  - 186.27List of employees in Alaska
  - 186.28List of employees in Colorado on December 8, 1915
  - 186.29Number of male and female employees working in D. C. and in Field
  - 186.32Statements re: ages of employees
  - 186.38Number of employees from Kentucky who are located in D. C.
  - 186.40Number of Jewish employees in Survey

- 186.41 Number of employees receiving \$1200 and more from the southern United States
- 186.42 List of employees from Georgia
- 186.44 Employees from Louisiana
- 186.45 Employees from Illinois
- 186.47 Employees from Kansas
- 186.48 Employees of Survey who are not citizens of the United States
- 186.54 Stenographers earning less than \$1200 per year
- 186.61 Evening classes for Government employees
- 186.62 Employees from New Mexico
- 186.65 World War I support activities in Pennsylvania
- 186.66 Employees under 16 years of age
- 187 Efficiency Ratings
- 188 Retirement
  - 188.1 Circulars and decisions re: retirement qualifications
  - 188.2 Automatic, compulsory retirement
  - 188.3 Retirement funds
  - 188.4 Retirement circulars
  - 188.5 Department wants Survey opinion regarding charges preferred by Special Agents against officials; should they be given chance to reply and have their reply investigated and made part of the record; salaries and deductions from salaries
  - 188.6 Reemployment of annuitants

## 200 FINANCE AND ACCOUNTS

### 200 *Finance and Accounts*

- 200.1 Organization of Accounts Division
- 200.2 Organization of Disbursing Office
- 201 Payrolls and payroll procedures
  - 201.01 Standard Government Civilian Allowance Regulations
  - 201.02 Retirement Fund Deductions
    - 201.1 Payroll changes
    - 201.2 Assignment of Pay
    - 201.4 Pay checks delivered by mail
    - 201.5 Forged checks, lost checks, etc., stop payment, checks to be paid to others
    - 201.51 Brittenham Case
- 202 Authority to approve accounts and vouchers
- 203 Rendition of accounts
- 204 Accounts, methods of keeping, etc.
  - 204.1 Keeping accounts, vouchers, allotments, appropriation accounts
- 205 Certification and examination of accounts
- 206 Disbursing officers, special disbursing clerks, special disbursing agents, etc.
  - 206.2 Statements as to amount of credit, balances
- 207 U. S. depositories of public moneys, certification of deposits, etc.
- 208 Miscellaneous correspondence re: bills and accounts
- 210 Budget and finance letters, circulars, bulletins
  - 210.1 Estimates and statements regarding accounts
  - 210.2 Condition of Current Appropriations
  - 210.4 Reporting Forms and Requirements (alphabetically by agency or board)
- 211 Appropriations
  - 211.01 Inquiries regarding appropriations
    - 211.1 Annual estimates and justifications
    - 211.2 Deficiency bills

- 212 Allotments
  - 212.01 Survey allotment by Department for contingent fund, correspondence, etc.
    - 212.1 Printing and binding
    - 212.2 Assessments against allotments
    - 212.3 Allocations of funds for printing
    - 212.4 Approval of attendance of employees at professional meetings
      - 212.52A printed copy of *Mid-Century Alaska*
- 213 Transfer from one fund to another (from Branches, Departments, etc.)
  - 213.1 Transfers within Survey
  - 213.2 Transfers of funds to other Branches, Bureaus, Departments, etc.
- 214 Deposits to credit of Survey
- 220 Authorizations
  - 221 Numbered authorizations for expenditure
- 230 Leases, contracts and agreements (Except cooperative agreements)
  - 231 Leases
  - 232 Contracts and agreements
- 240 Bonds
  - 243 Surety companies and attorneys authorized to do business with or appear before the Department
- 250 Transportation of government property and employees
  - 250.1 Re: travel, authority for
  - 250.2 Re: government paying expenses for attending meetings of associations, societies, etc.
  - 250.3 Re: transportation requests
  - 250.4 Shipment of household goods
- 251 Freight and Express
- 252 Passenger Traffic Officer
  - 252.1 Street car tokens
- 256 Re: purchase of cars and maintenance of motor-cycles, automobiles and other passenger-carrying vehicles
  - 256.01 Authorization for use of privately owned automobiles
- 257 Automobile accidents
- 258 Automobile Insurance
- 260 Sale of maps, documents, waste lumber, empty bottles, and misc. articles
- 270 Claims (alphabetically by surname)
- 280 Allowances to employees
  - 281 Per diem in lieu of subsistence
  - 283 Advances of funds
  - 284 Housing of personnel
  - 285 Allowance for quarters
  - 286 Travel expenses associated with transfer of station

### 300 EQUIPMENT AND SUPPLIES

- 300 *Equipment and Supplies*
  - 300.1 Purchase of supplies, including opinions, decision, etc., on subject (supplies for field services)
  - 300.2 Central Stock Room
  - 300.4 Care of equipment, supplies
  - 300.6 Requests for information re: supplies and equipment used by survey re: new inventions, development, etc.; information as to where supplies can be purchased
- 301 General Supply Committee
  - 301.1 Schedules, lists of award, etc. (changes in Supply Com. Circulars)
    - 301.21 Permission to purchase in open market

- 301.22 Substandard supplies
- 301.24 Survey asked to test materials
- 301.3 Estimates of supplies needed requested
- 302 Supplies, machinery, instruments, etc. accepted for trial
- 303 *Status of property, care of (including livestock)*
  - 303.1 Unserviceable or abandoned; disposition of
  - 303.2 Exchanged
    - 303.41 Borrowed
    - 303.42 Loaned
  - 303.5 Lost, stolen or strayed
  - 303.6 Property returns and inventories
  - 303.8 Transfer of instruments, property, etc. to Survey (Gifts or purchase)
    - 303.81 Transfer of surplus property
    - 303.82 Shipment of property
  - 303.9 Surplus property
- 304 General correspondence regarding stationary and supplies
  - 304.1 External (except Department)
  - 304.2 With Department and Supply Division
  - 304.3 Internal
  - 304.4 Requisitions for supplies (Executive Division)
  - 304.7 Typewriters
- 305 General Correspondence re: printing and binding
- 307 Circulars, catalogues, solicitations re: supplies or work, including material offered for sale
- 310 Bids and Specifications
  - 311 Office Supplies (furniture, etc. incl. bicycles)
  - 312 Stationary and map paper
  - 313 Duplicating apparatus and material (incl. typewriters)
  - 314 Machinery and parts
  - 317 Printing, binding and other similar publication work or Engraving Division work; engraving supplies
- 320 Buildings and Grounds
  - 320.1 Arrangement of space in new building
  - 320.2 Re: site for new building
  - 320.3 Consolidation of services, relocation of office staff
  - 320.4 Re: moving to new building
  - 320.6 Name plates
- 321 Quarters in public buildings
  - 321.1 Requests for (alphabetically by State or Territory)
- 322 Maintenance and repairs
- 323 Requests for additional space
- 324 Exchange of space, re: moving material stored to better quarters
  - 324.1 Arrangements for making more space; personal belongings to be removed; correspondence re: change in assignment of rooms
- 325 Offers of buildings to be erected for Survey or old buildings, for rent or sale
- 326 Loan of quarters to other Departments, Office, Commissions
- 328 Survey Fire, Correspondence regarding it, damage done, estimates on etc.
  - 328.1 Fire drills, fire prevention, fire alarms, etc. correspondence
- 331 Telegraph
  - 331.1 Messages
  - 331.4 Internal instructions re: delivery of telegrams, forms of receipt of
  - 331.9 Radio-telegraphic service

- 332 Telephone
  - 332.1 Requests for repairs, changes, installations of phones, etc.
    - 332.11 Telephone expenses
  - 332.2 Instruction re: telephone service
  - 332.3 Re: charging of private calls
  - 332.4 Correspondence re: telephone directory
  - 332.5 Report of number of calls, etc.
- 345 Distribution of the Congressional Record
- 346 Distribution of U. S. Postal Guide
- 360 Building services
  - 364 Elevator service
- 370 Laundry

#### 400 GEOLOGY

- 400 *Geology*
  - 401 Organization of Geologic Branch and monthly reports
  - 402 Analysis of samples, etc. by Geologic Branch for Survey
- 410 Geologic Investigations
  - 411 Requests for (Including requests that geologists make investigations) (alphabetically by State, Territory or foreign country)
  - 412 Surveys and work for other countries
  - 413 Suggestions, recommendations, etc. that scope of Survey's geologic work be widened
  - 414 Re: bids of parties, firms, etc. on Geologic work for Survey
  - 417 Suggestions, etc. re: geologic work by Director
- 420 Requests for Geologic Information
  - 420.1 Requests for information made by or furnished to Survey
  - 421 Correspondence re: bringing buyers and sellers of geologic products together
  - 424 Requests for advice along geologic lines
  - 425 Requests for information as to reliability of reports of parties, firms, etc. doing geologic work
  - 426 Correspondence regarding geologic terms
  - 427 Requests for opinions as to work done by State surveys; advice asked, etc.
  - 428 War Minerals Relief Commission
  - 429 Information from foreign countries
    - 429.1 Data regarding mineral deposits in foreign countries
- 430 Specimens and fossils
  - 431 Requests for specimens
  - 432 Specimens submitted to Survey for its information; specimens loaned Survey
  - 433 Specimens to be sent to National Museum
  - 435 Collection offered to Survey for sale
  - 438 Requests for authority to collect specimens, fossils, etc.
  - 439 Re: restrictions placed by other governments on collections of fossils, specimens, etc.
  - 440 Miscellaneous replies to inquiries
- 450 General correspondence and instructions with respect to work in the various divisions in the Branch
  - 451 Division of Chemical and Physical Research
  - 452 Mineral Resources
  - 453 Section of Mineralogy
  - 454 Areal Geology
  - 455 Section of Geology of Iron and Steel Alloy Metals
  - 456 Work in Alaska (alphabetically by agency, project, subject or surname of individual)
  - 457 Section of Coastal Plain Investigation

- 458 West Indian Geologic Surveys
- 459 Section of Foreign Mineral Reserves
- 460 Re: field parties and Officers
- 461 Assignments, disagreements, etc. in camps; camp administration
- 462 Miscellaneous
- 465 Field and Regional Offices
- 470\* Cooperation (Lists of State Geologists)
  - 470.1 Corrections to lists
- 471 With States (alphabetically)
  - 471.1 Correspondence
- 472\* With Departments, Bureaus and Independent offices (alphabetically)
- 473 With Branches of Survey
- 474 With other countries and governments (alphabetically)
- 475 With private individuals, firms, corporations, etc. (alphabetically)
- 476 With museums, etc.
- 480 Volcano investigations

## 500 TOPOGRAPHY

- 500 *Topography*
  - 501 Organization of Branch; instructions re:; authority of conferences
  - 502 "Instructions to Topographers" to be published by branch
- 510 Requests for topographic surveys and work (a general file followed by files arranged alphabetically by State, Territory, or country)
  - 510.1 Survey furnishes information
  - 510.2 Survey requests information
- 511 Topographic Surveys for other countries
- 512 Requests for information re: authority under which surveys are made
- 514 Requests for topographic information as to Territory covered, expedition of work
- 515 Re: areal-topography and other information furnished Survey
- 516 Aerial photography, requests for information (alphabetically by person, organization, State government, or Federal agency)
- 520 Boundaries
- 530 Elevations and Bench Marks
  - 531 Replies to inquiries
  - 532 Moved or destroyed
- 540 Progress of topographic mapping in the United States
  - 541 Use of aerial photography to make maps
  - 542 Cooperative surveys
  - 545 Status of topographic mapping
  - 546 Proposed modification of the Temple Act
- 550 *National Parks*
  - 551 Re: establishment of
  - 552 Re: surveying and engineering supervision of construction within National Parks
  - 559 Removal of preliminary survey markings
- 570 *Cooperation*
  - 571\* With States (alphabetically by State, Territory or country)
    - 571.1 Projects in Illinois and Pennsylvania
  - 572\* With Departments, Bureau and Independent offices (alphabetically)
  - 573 With Branches of Survey
  - 574 With other countries and governments
  - 575 With private individuals, firms, corporations, etc.

- 580 Survey replies to inquiries regarding maps of particular areas
- 590 Geographic names, Boards, and other miscellaneous correspondence re: topographic matters
  - 591 Information re: Geographic names
  - 595 Organization of State Geographic Boards and Societies
  - 596 Quarters for Survey personnel outside Washington, D. C.
  - 597 Damage to property by Survey personnel
  - 598 Alleged trespass by Survey personnel on private property

## 600 WATER RESOURCES

### 600 *Water Resources*

- 601 Organization of branch
- 602 Water Analysis, Statement re: to be referred to Chief Hydrographer, etc.
- 603 Claims of undue influence being made in making Water Resources reports, preference being shown
- 610 Requests for information and general correspondence re: Surface Water
  - 610.1 Information requested by Survey or furnished to it
  - 610.2 Information requested by Survey or furnished to it
  - 610.3 Samples of water, etc. furnished Survey for its information
- 611 Stream gaging (alphabetically by Federal, State and local agencies, organizations or individuals)
  - 611.1 Establishment, abolishment or destruction of or continuation of gaging stations
  - 611.2 Comments requested on reports re: stream gaging
  - 611.3 Information requested re: stream gages, method of installing, etc.
- 612 Power site withdrawals
- 613 Utilization and conservation of water power
  - 613.1 Commissions and organizations engaged in water utilization and conservation
  - 613.2 Re: water utilization and conservation in foreign countries
  - 613.3 Inquiries about financial assistance from the government in the development of water power
  - 613.4 Replies to inquiries regarding water power development
  - 613.5 Replies to inquiries regarding the production of electricity and use of coal to produce electricity
- 614 Storage, storage possibilities, reservoirs, etc.
- 615 Irrigation and irrigated lands
- 616 Drainage
- 617 Floods, flood levees, overflow lands and ditches
- 619 Correspondence re: bids for well drilling
- 620 Ground water levels (alphabetically by name of agency, organization or individual)
- 620 Ground water levels - reports furnished to the Office of Production Management and the War Production Board
- 620\*\* Correspondence with Senator Harry Byrd
  - 621 Wells, artisan (sites etc.) (alphabetically by name of agencies, municipalities, organizations or individuals)
  - 622 Mineral Springs
  - 623 Drouth
- 630 Water Power Surveys including Superpower Survey
  - 630.2 Superpower Survey staff
- 631 Superpower Survey, general files and minutes
- 632 Superpower Survey Advisory Board, minutes
- 633 Superpower Survey, requests for information
- 634 Superpower Survey, request for information to prepare report
  - 634.1 Cooperation
  - 634.3 Requests for information from the Interstate Commerce Commission
- 635 Publication of articles concerning the Superpower Survey
- 637 Revisions of the Superpower Survey report

- 640 Requests for examination and investigation (alphabetically by State, municipality, Territory, project, organization or individual)
- 645 Progress of work, plans
- 650 Water Resources information furnished to or requested by Survey
  - 661 General correspondence regarding purchase of land under provisions of the Weeks Act
  - 662 Reports made for the National Forest Reservation Commission (arranged by assigned number)
- 670\*\* Cooperation
  - 671\* With States for water resources investigations (alphabetically by State or Territory)
    - 671.1 Purchase orders (alphabetically by State or Territory)
  - 672 With Departments, Bureaus, and Independent agencies (arranged alphabetically)
  - 673 With individuals, corporations, etc., general correspondence re: Survey assisting private parties, policy of Survey (arranged alphabetically)
  - 674 With other countries and governments
  - 675 Miscellaneous correspondence
- 680 Geological Survey field offices (Water Resources Branch)
  - 681 Confidentiality of information gathered by Survey on private property
- 690 International Joint Commission

## 700 LAND CLASSIFICATION

- 700 Land Classification
  - 701 Organization of Branch, personnel
  - 702 Land Board conferences
- 710 Land Classification, status of work
- 720 Withdrawals
  - 721 Power Sites
  - 722 Regarding mineral and coal lands, withdrawals and leasing of; cooperation with the General Land Office
  - 723 Policy regarding mineral leases
- 730 Stock raising homesteads
  - 731 Announcements of
- 740 Grazing district under the Taylor Grazing Act
  - 741 Wells located within grazing districts; assignment of personnel
- 750 National Monuments
  - 751 Areas set aside as
- 760 General requests for land information
  - 761 General correspondence regarding the Mineral Leasing Act
  - 771 Cooperation with States, agreements
  - 772 Cooperation with Departments, Bureaus, and Independent agencies (arranged alphabetically)
  - 773 Cooperation with companies
- 780 Value of work, establishment of district offices
- 790 Regarding agreements for cooperative or unit development
  - 791 Royalty rates, payments

## 800 PUBLICATION BRANCH

- 800 Publication Branch
  - 800.1 Section of Illustrations
  - 800.2 Section of Distribution
  - 800.3 Engraving Division
- 808 Re: use of photo Lab by outsiders
- 809 Re: purchase of "Graham Company's" plant for Engraving Division
- 810 Special maps and printed reports for Department or others
- 810 Ohio Shale, notes with tables and annotated maps (oversized, in box 534)

- 811 Special maps, printed reports, views, etc. made for Department; special additions, corrections, changes, etc. for Department
- 812 Special maps, atlas sheets, documents, reports, guide books etc. (including correspondence re: "Contributions to General Geology")
  - 812.1 Requests that maps be published
  - 812.5 Mineral Resource Map of Southern States
- 820 Instructions, suggestions, etc., regarding publications
  - 821 General instructions, suggestions, comments, etc. by Director or Private Secretary
  - 822 Criticisms, commendations, suggestions, complaints, etc. from others than Director or his Private Secretary
    - 822.1 From other agencies, outside organizations, and individuals (arranged alphabetically)
- 823 Forms of footnotes, bibliographic entries
- 824 Special comments, description, criticisms of maps, introductory chapters
  - 824.1 Introductory chapters, etc., requested by others for publication
- 825 Re: forms of text expression, etc., use of less technical rather than more technical terminology
- 826 Refusal of firms, corporations, etc., to give information; intimation that favoritism is shown in using information from corporations, etc.
- 827 Miscellaneous
- 831 Distribution of publications
  - 831.01 Distribution Office
    - 831.1 Re: "promises" of publications, plans and forms used for distribution, etc.
    - 831.2 Furnishing publications to students, educational institutions, etc.
    - 831.3 Transfer of distribution of documents to Government Printing Office
    - 831.5 Destruction by Government Printing Office of inactive publications
    - 831.7 Transfer of publications and maps from the Capitol (House or Senate) to Survey
    - 831.9 Maps, etc. to be given gratis in certain instances
- 832 Regarding reprints or publications out of stock
  - 832.1 Requests for reprinting of publications (external)
  - 832.2 Corrections or revisions to be made for reprints of publications
  - 832.4 Re: stock on hand, reduction of, accessions, etc.
- 833 Publications withdrawn from publication
  - 833.1 Survey requests that publications be destroyed on account of being incorrect
- 834 Price schedules
  - 834.1 Changes in prices of sale publications (including reduction in price because of Survey fire)
  - 834.2 Sale editions of publications
  - 835.1 Director's reserve list
- 837 Lists of publications, correspondence
- 838 Quota of Congressmen; exchange of maps on quota, etc.
- 839 Requests for information as to probable dates of issuance; delays in issuance, expedition of issuance
  - 839.1 Survey requests information re: when publications can be expected, etc.
- 841 Editing of publications, maps, and manuscripts; general correspondence, Editor's Docket
  - 841.1 Editing of publications, corrections, etc. to be made
  - 841.2 Survey asked to pass on quality of manuscripts for other Bureaus, Departments, etc.
    - 841.21 Other bureaus requested to criticize, review, etc. manuscripts
  - 841.3 Edition of manuscripts; care of manuscripts, correspondence re: manuscripts, loss of manuscripts; submission of manuscripts; also correspondence with authors
- 842 Handling and review of manuscripts; requests by Survey employees to seek outside publishers
  - 842.2 Requests made by Branches or individuals to publish papers
  - 842.3 Requests made by Survey for permission to use unpublished information from other Bureaus, Departments, or outside parties

- 842.4 Requests made by other Bureaus, Departments, States, and publishers for permission to publish manuscripts; approval of papers
- 842.7 Firms, etc. request permission to use Survey maps for advertising purposes
- 842.8 Data submitted to Survey for publication
- 843 Requests for Engraving, Printing, Lithographing, etc.
  - 843.2 From outside persons, firms, cities, States, etc.
  - 843.3 Survey policy of furnishing transfers to outside parties, States, etc., requests for
  - 843.4 Re: work Survey does for Government Printing Office (bids by Survey)
  - 843.5 Cost of map work
- 844 Estimates on cost of publications
- 845 Schedule of editing illustrations and Engraving docketts
- 850 Survey requested to criticize, correct, edit, etc. articles re: its work
- 860 Photographic Laboratory and Illustrations
  - 861 Photographs, lantern slides, moving pictures and negatives
  - 863 Cuts and illustrations, including correspondence re: wiping off stones
    - 863.1 Necessity for illustrations of publications
    - 863.2 Approval or rejection of illustrations
  - 864 Half-tones and zinc etchings
  - 869 Re: space for storage of prints and photographs, negatives, cuts, etc.; destruction of useless ones; retention of those which may be desired for further use
- 870 Cooperation
  - 871 With States
  - 872 With other agencies
  - 873 With Branches of Survey
  - 874 With private firms, individuals, corporations, etc.
- 890 Miscellaneous publication correspondence
  - 891 Copyright laws re: government publications
  - 892 Protests against publications in present form as infringement on private enterprise; Survey work competing against outside firms, etc.
  - 893 Regarding land outside U. S. boundaries shown on maps
  - 894 Requests for information as to methods of printing, engraving and filing maps and folios
  - 895 Correspondence re: International topographic maps
  - 897 Marshall Plan - regarding reservoir sites in California

## Appendix 4

Office of the Director - Central Classified Files, 1953-74 (entry 52)

### 1st Subseries (1953-68)

The contents of this series is listed in two subseries, 1953-68 and 1968-74

Terms in *italic* are added to provide clarity, they are not file titles

Oversized files are filed at the end of each subseries

#### ACCOUNTING

- 1     Accounts Current (2 files)
  - 1-1     Depositories (3 files)
- 2     Allowances and Expenses (4 files)
  - 2-1     Cost of Living (5 files)
  - 2-2     Per Diem (4 files)
  - 2-3     Quarters (5 files)
- 3     Audits (5 files)
  - Reports on Audit Reviews of Operations
  - General Accounting Office Audits
  - 3-1     Claims (5 files)
- 4     Bonding of Employees (2 files)
- 5     Certifying Officers and Agent Cashiers (5 files)
- 6     Collections and Receipts (6 files)
  - 6-2     Checks Sent (12 files)
  - 6-3     Contributions "Trust Funds" given to U.S. (2 files)
  - 6-4     Collections and Receipts, Deposits (3 files)
  - 6-5     Collections and Receipts, Fees
  - 6-7     Refunds
  - 6-9     Royalties (5 files)
- 7     Cooperative Accounts (3 files)
  - 7-1     States (4 files)
  - 7-2     Countries and Others (2 files)
- 9     Disbursements (4 files)
  - 9-1     Adjustments
  - 9-3     Expenditures (5 files)
  - 9-4     Refunds (2 files)
- 11    Obligations and Encumbrances (5 files)
- 12    Payrolls and Salaries (5 files)
  - General Accounting Office [paper-bound volumes concerning salary tables]
  - 12-1    Bond Deductions (5 files)
  - 12-2    Checks (5 files)
  - 12-4    Retirement Deductions (2 files)
  - 12-5    Social Security - FICA Deductions
  - 12-6    Time and Attendance Reports (4 files)
  - 12-7    Vouchers
  - 12-8    Withholding Taxes (5 files)
- 13    Reports and Statements (3 files)
- 14    Systems of Accounting (4 files)
- 15    Transfers of Funds (5 files)

- 16 Vouchers and Invoices (4 files)
- 17 Working Funds (5 files)
- 18 State and Local Taxes (3 files)
- Tabular Counts of Employees by Series, Branch and Grade as of June 30, 1954
- Monthly Financial Reports
- Financial Charts

## BUDGET

- 1 Budget Formulation, General (6 files)
  - 1-1 Policy and Procedures (3 files)
  - 1-2 Preliminary Estimates (3 files)
  - 1-3 Budget Ceiling (2 files)
  - 1-4 Work Papers for Annual Estimates (2 files)
  - 1-5 Annual Estimates (5 files)
  - 1-6 Budget Hearings (5 files)
  - 1-7 Supplemental Data to Bureau of Budget (2 files)
  - 1-8 Budget Allowances (4 files)
  - 1-9 Revision of Estimates after Allowances (5 files)
  - 1-10 Budget Cuts, Complaints (from outsiders)
  - 1-11 Congressional Justification
  - 1-12 House Hearings (5 files)
  - 1-14 Senate Hearings (3 files)
  - 1-16 House-Senate Conferences
  - 1-19 Annual Appropriations Act (4 files)
  - 1-21 Supplemental Deficiency Appropriations and Estimates (5 files)
  - 1-22 Supplemental Appropriation Acts (2 files)
  - 1-24 Temporary Appropriation Acts
- 2 Budget Execution, Program Level (4 files)
  - 2-1 Policy and Procedures (5 files)
  - 2-2 Financial Plans (5 files)
  - - Comparative Analysis of Financial Plans as of December 31, 1954 and December 31, 1955 (loose items)
  - 2-3 Quarterly Apportionments
  - 2-4 Allotment Advices of Funds (4 files)
  - 2-5 Request for Additional Funds (3 files)
  - 2-6 Limitations (5 files)
  - 2-8 Accounting Statements (3 files)
  - 2-9 Analyses of Obligations (5 files)
- 4 Budget Execution - Project Level (2 files)
  - 4-1 Procedures and Policy
  - 4-4 Allotment Advices (3 files)
  - 4-7 Revolving Fund - Working Capital Fund
  - 4-8 Accounting Statements (2 files)
  - 4-9 Analyses of Obligations
- 5 Region, State, and Local Programs, and Estimates (3 files)
  - - Appropriation Summaries (organized by State, filed loose)
  - 5-1 Field Committee Regions, Justifications (5 files)
  - 5-4 Federal-State (including local cooperative programs) (5 files)
  - 5-5 Estimates (3 files)
  - 5-6 Territorial Possessions, Trust Territories (2 files)

- 6 Interagency Programs and Estimates (4 files)
  - 6-1 Miscellaneous Agencies (5 files)
  - 6-2 Army Map Service
  - 6-3 State Department
  - 6-4 General Services Administration
  - 6-5 Interior Department, Bureau and Offices (4 files)
  - 6-6 Army (3 files)
  - 6-7 Air Force (2 files)
  - 6-8 Navy (3 files)
  - 6-9 Foreign Activities (State-MSA, ICA) (4 files)
  - 6-10 Atomic Energy Commission (3 files)
  - 6-15 Defense Minerals Exploration Administration (2 files)
  - 6-25 Tennessee Valley Authority

#### BUILDING AND GROUNDS

- - General
- 1 Acquisition (4 files)
  - 1-1 Deeds, Titles, Mortgages
  - 1-2 Leases and Leasing (5 files)
- 2 Damage and Protection (3 files)
  - 2-1 Fire - Drills (5 files)
  - 2-2 Guarding - Keys (5 files)
  - 2-3 Passes (5 files)
  - 2-3.1 Library of Congress
- 9 *Space*
  - 9-1 Washington (5 files)
  - 9-1 New Building
  - 9-2 Field (5 files)
  - 9-2 (alphabetically by name of State, Territory or possession)
  - 9-3 Parking (5 files)
- 10 Utilities and Services (5 files)
  - 10-1 Heating, Lighting, Power (4 files)
  - 10-2 Refrigeration and Air Conditioning (4 files)

#### COAL

- 1 General (3 files)
- 5 Classification
- 6 Coking Coal
  - 6-1 Coke Fields
- 7 *Composition*
  - 7-1 Analysis
- 8 Drill Hole Records, Logs
- 9 Exploration and Development (4 files)
  - 9-2 Contractors (2 files)
- 10 *Fields*
  - 10-1 Alaska (Mr. Reed)
  - 10-1 Domestic (2 files)
  - 10-1 Deep River Coal Field, North Carolina (2 files)
  - 10-1 General
  - 10-2 Foreign

- 11    *Coal Lands*
  - 11-1    Classification of
  - 11-2    Withdrawals and Withdrawn Land

## COMMITTEES

- *General*
  - Hoover Commission
  - Commission on Intergovernmental Relations
  - President's Cabinet Committee on Mineral Policy
- *Congressional*
  - General (2 files)
  - Bear River Compact Commission
  - Canadian River Commission
  - Columbia River Commission
  - Columbia Interstate Compact (2 files)
  - Compact Commissions
  - Joint Committee on Defense Production
  - Commission of Foreign Economic Policy
  - Interior and Insular Affairs
  - Interstate Water Compact
  - Joint Committee on Printing
- *Compacts*
  - Program Reports
  - Arkansas River Compact
  - Blue River Compact Commission
  - California-Nevada Interstate Compact Commission
  - Klamath River Basin Compact and Arkansas River Basin Compact
  - Klamath River Commission
  - Mississippi River Commission
  - Pecos River Commission
  - Red River Compact Commission (3 files)
  - Rio Grande Commission (2 files)
  - Sabine River Commission
  - [River Basin] Study Commission, U.S. Southeast Region (4 files)
  - [River Basin] Study Commission, Texas (3 files)
  - Upper Colorado River Commission
- *Geological Survey*
  - General (2 files)
  - Advisory Committee
  - Advisors to the Director (2 files)
  - Alaska Field Committee (1949-54)
  - Alaskan Survey Committee (2 files)
  - Base Map Committee
  - Budget Committee (2 files)
  - Capital Equipment Committee
  - Board of Civil Service Examiners
  - Cooperative Program
  - Defense Mobilization
  - Denver Survey Committee
  - Domestic Geographic Names
  - Electronic Computers (2 files)

- Emergency Planning
- Working Group on Equal Employment Opportunity
- Executive Committee (2 files)
- Exhibits Committee (2 files)
- Foreign Activities (2 files)
- General Staff Committee (6 files)
- Interdivision Committee on Geologic Mapping
- Geologic Names
- Geologists Staffing Committee
- Incentive Awards Committee (2 files)
- Management Service Committee (4 files)
- New Building Committee
- Pacific Coast Survey Committee (2 files)
- Photogrammetric Techniques in Geology (3 files)
- Professional Staffing Committee
- Committee on Program
- Program Analysis Committee
- Program and Planning Committee
- Program Reports, Survey
- Program Review Board
- Promotion Policy
- Property Board
- Publications Committee (2 files)
- Quarters Evaluation Board (2 files)
- Committee Roster
- Rocky Mountain Survey Committee (2 files)
- Safety Committee (2 files)
- Ad Hoc Committee on Science Fair Co-Projects
- Secretary Survey Committee for Information Activities
- Sub-Committee on Soil and Moisture Work
- Suggestions for Authors
- Training
- Wage Board
- Water and Power Development Committee
- Interdivision Committee on Water Resources Features on Topographic Maps
- West Coast Survey Committee
- *Interior Department*
  - General (4 files)
  - Program Reports
  - Regional Program Reports
  - Advisory Committee on Conservation (2 files)
  - Advisory Committee for Translations Depository
  - Alaska Development Board
  - Alaska Field Committee (4 files)
  - Alaska Legislative Committee
  - Alaska Road Commission
  - Interdepartmental Working Committee on Alaska Rural Development (2 files)
  - Effects of Alaska Statehood
  - Alaska Survey Team
  - Arkansas-Red-White Basins (2 files)
  - Arkansas-Red-White Reports (2 files)

- Automatic Data Processing Committee
- Bench Marks, Survey Markers, Monuments
- Colorado River-Great Basin
- Columbia River Basin Committee (2 files)
- Congressional Liaison Council (2 files)
- Coordination of Reports
- Deferment
- Energy Staff
- Field Committee Chairmen (3 files)
- Interior Field Committees (2 files)
- Advisory Committee on Fish and Wildlife (3 files)
- Committee Chairmen, General
- Board on Geographic Names
- Intern Advisory Committee
- Juneau Administrative Committee
- Mississippi-Great Lakes Field Committee
- Missouri River Basin Committee (2 files)
- Missouri River Basin Field Committee (6 files)
- Missouri River Basin Field Committee, Minutes (2 files)
- Missouri River Basin Committee, Quarterly Reports
- Missouri River Basin Field Committee, Quarterly Reports (3 files)
- Missouri River Basin Field Committee, Annual Reports (3 files)
- Missouri River Basin Field Committee Regional Program Reports (2 files)
- Missouri River Basin Field Committee, Departmental Information
- North Central Field Committee
- Northeast Field Committee (7 files)
- Northeast Field Committee, Minutes
- Interdepartmental Committee on Outdoor Recreation (3 files)
- Pacific Northwest Field Committee (5 files)
- Pacific Northwest Field Committee, Minutes
- Pacific Southwest Field Committee (6 files)
- Pacific Southwest Field Committee, Minutes (2 files)
- Pacific Southwest Field Committee, Semi-annual reports (3 files)
- Radio Advisory Committee
- Research and Development (2 files)
- Safety Committee (2 files)
- Saline Water Conversion
- Soil and Moisture Committee
- Southeast Field Committee
- Southeast Field Committee Staff (3 files)
- Southwest Field Committee (7 files)
- Secretary's Survey Committee on the Geological Survey
- Technical Review Staff
- Departmental Travel Committee
- President's Advisory Committee on Water Resources Policy
- Water Resources Research
- President's Committee on Youth Fitness
- President's Council on Youth Fitness, Departmental Advisory Board (2 files)

- *Interagency*
  - General (4 files)
  - Program Reports
  - Interdepartmental Committee on Antarctic Research
  - Arkansas-Red-White Basins (9 files)
  - Arkansas-Red-White Basins, Minutes (4 volumes)
  - Committee on Cartography
  - Columbia Basin Inter-agency Committee (4 files)
  - Columbia Basin Inter-agency Committee, Minutes (12 volumes)
  - Columbia Basin Inter-Agency Committee, Semi-annual reports
  - Interdepartmental Commodity Advisory Committee
  - Committee on Community Air Pollution (2 files)
  - Delaware Basin Survey Coordinating Committee (3 files)
  - Federal Interagency River Basin
  - Board on Geographic Names (2 files)
  - Subcommittee on Hydrology and Sedimentation (3 files)
  - Missouri Basin Interagency (5 files)
  - Missouri Basin Interagency, Minutes (16 volumes)
  - Missouri River Basin, Annual Report
  - National Atlas
  - New England-New York (2 files)
  - New England-New York, Report
  - Nonferrous Metals
  - Northeastern Resources Council (4 files)
  - Northeastern Resources Council, Annual Report
  - Oceanography
  - Pacific Southwest (6 files)
  - Pacific Southwest, Minutes (19 volumes)
  - Pest Control
  - Radio Advisory Committee
  - Rural Development Program
  - Science and Technology
  - Scientific Research and Development
  - Scientists and Engineers
  - Sedimentation (2 files)
  - Standardization
  - Uniformity of Methods for Water Examination
  - Water Resources (4 files)
  - Water Resources Policy
  - Weather Control
  - Weather Modification
  - Youth Fitness
- *International*
  - General (4 files)
  - Canadian Boundary Water Problems
  - Carboniferous Stratigraphy and Geology, 4th Congress
  - Columbia River Engineering Board
  - International Geological Congress
  - International Union on Geology, U.S. Committee (2 files)
  - International Joint Commission (3 files)
  - U.S.-Japan Committee on Scientific Cooperation
  - World Power Conference

- *National*
  - General (3 files)
  - American Commission on Stratigraphic Nomenclature
  - American Congress on Surveying and Mapping
  - American Geographical Society
  - American Geological Institute
  - American Society on Photogrammetry
  - Equal Employment Opportunities, President's Commission on (2 files)
  - Federal Committee for Science and Technology
  - Federal Executive Boards
  - Government Employment Policy
  - Manpower
  - National Academy of Science
  - Philippine Geological Society
  - Science Writers, National Association
  - Technical Standards
  - Water Data for Public Use (2 files)
  - Weather Control
- *Regional*
  - General (5 files)
  - Appalachian Regional Committee
  - Alaska Science Conference

#### COMMUNICATIONS

- 1 Mail and Correspondence (5 files)
  - 1-1 Addresses (5 files)
  - 1-2 Postage (5 files)
  - 1-3 Postal Laws and Regulations (4 files)
  - 1-4 Procedures (4 files)
  - 1-4 Lovering, T.S., and others with Soviet Union (2 files)
  - 1-5 Referred Letters (5 files)
  - 1-6 Registered, Insured and Special Delivery (2 files)
  - 1-7 Stationery
- 2 Messenger Service (5 files)
- 4 Radio (4 files)
- 5 Reports, Surveys (4 files)
- 6 Telegrams, Teletypes, Cables (3 files)
- 7 Telephones (4 files)
  - 7-1 Installation and Use (3 files)
  - 7-2 Lists and Directories (5 files)
  - 7-3 Toll Calls (5 files)
- 8 Translations (3 files)

#### COMPUTATION

- 1 General (3 files)
- 1 Applications and Systems (2 files)
- 3 Computing Equipment
  - 3-2 Procurement and Lease (2 files)

## CONTRACTS

- General (5 files)
- General, A-M, N-Z (6 files)
- Compliance (2 files)
- United Electrodynamics, Inc
- Woods Hole Oceanographic Institute [Institution]

## COOPERATION

- 1 Consultants and Laboratories (2 files)
- 2 Educational Institutions, General
- 2 Educational Institutions, A-M and N-Z (4 files)
- 2 Educational Institutions, alphabetically by name of institution (119 files)
- 3 *General:*
  - Federal Agencies (3 files)
  - Advanced Research Projects Agency (3 files)
  - Agency for International Development
  - Agency for International Development, A-M and N-Z (2 files)
  - Agency for International Development (alphabetically by name of country) (24 files)
  - Agriculture Department (4 files)
  - Air Force (7 files)
  - Alaska Railroad (3 files)
  - Alaska Road Commission
  - Area Redevelopment Administration (2 files)
  - Army, Department of (6 files)
  - Army, U.S.
  - Army Map Service (3 files)
  - Army, Mississippi River Commission
  - Atomic Energy Commission (7 files)
  - Bonneville Power Administration (3 files)
  - Bureau of the Budget (3 files)
  - Central Intelligence Agency
  - Census, Bureau of (3 files)
  - Civil Aeronautics Administration
  - Civil Service Commission (3 files)
  - Coal Research, Office of
  - Coast and Geodetic Survey (6 files)
  - Coast Guard (2 files)
  - Commerce, Department of (3 files)
  - Defense Atomic Support Agency
  - Defense, Department of (3 files)
  - Defense Intelligence Agency
  - Defense Minerals Procurement Agency
  - Defense Minerals Exploration Administration
  - Defense Mobilization, Office of (2 files)
  - Federal Aviation Agency (2 files)
  - Federal Civil Defense Administration
  - Federal Housing Administration (3 files)
  - Federal Power Commissions (3 files)
  - Fish and Wildlife Service (3 files)
  - Foreign Operations (2 files)
  - Forest Service (4 files)

General Accounting Office (3 files)  
 General Services Administration (3 files)  
 Government Printing Office (3 files)  
 Health, Education and Welfare, Department of (3 files)  
 Housing and Home Finance Agency  
 Indian Affairs (4 files)  
 International Cooperation Administration, (3 files)  
 International Cooperation Administration, A-M, N-Z (2 files)  
 International Cooperation Administration (alphabetically by name of country) (53 files)  
 International Joint Commission  
 Justice, Department of (3 files)  
 Labor, Department of (3 files)  
 Land Management, Bureau of (7 files)  
 Library of Congress (3 files)  
 Minerals Exploration, Office of (3 files)  
 Mineral Mobilization (3 files)  
 Minerals and Solid Fuels  
 Mines, Bureau of (7 files)  
 Mutual Security Agency  
 National Academy of Science (3 files)  
 National Advisory Committee for Aeronautics  
 National Aeronautics and Space Administration (4 files)  
 National Capital Planning Commission  
 National Cultural Center (2 files)  
 National Museum, Smithsonian Institution (3 files)  
 National Oceanographic Data Center  
 National Park Service (9 files)  
 National Research Council (3 files)  
 National Science Foundation (7 files)  
 Navy, Department of (7 files)  
 Oil and as, Office of (3 files)  
 Outdoor Recreation, Bureau of (3 files)  
 Peace Corps (2 files)  
 Petroleum Administration for Defense  
 Post Office Department  
 Public Health Service (3 files)  
 Public Housing Administration  
 Public Roads, Bureau of (3 files)  
 Reclamation, Bureau of (7 files)  
 Reconstruction Finance Corporation  
 Saline Water, Office of (2 files)  
 Secretary's Office  
 Securities and Exchange Commission  
 Small Business Administration (3 files)  
 Smithsonian Institution  
 Snow, Ice and Permafrost Research Establishment  
 Soil Conservation Service (4 files)  
 Standards, Bureau of (3 files)  
 State, Department of (6 files)  
 Supreme Court of the United States  
 Tariff Commission (3 files)

- Tennessee Valley Authority (3 files)
- Territories, Office of (3 files)
- Treasury Department (3 files)
- Trust Territories of the Pacific (2 files)
- Veterans Administration
- Water and Power Development
- Weather Bureau (3 files)
- White House
- Yards and Docks, Bureau of
- 3-1 Intrabureau (3 files)
- 4 *Foreign and International:*
  - General (3 files)
  - Foreign and International (alphabetically by country, geographic area, organization or project)
    - (129 files)
  - 4-1 Individuals
- 5 *Scientific and Professional Organizations:*
  - General (2 files)
  - General, A-M, N-Z (4 files)
  - Amerada Petroleum Corporation
  - American Association of Petroleum Geologists (2 files)
  - American Geographical Society
  - American Geological Institute
  - American Geophysical Union (2 files)
  - American Legion Auxiliary (2 files)
  - American Metal Climax, Inc.
  - American Municipal Association
  - American Petroleum Institute
  - American Potash and Chemical Corporation
  - American Society of Civil Engineers
  - American Society of Photogrammetry
  - American Society of Planning Officials
  - American Zinc Company - Tennessee
  - American Zinc, Lead and Smelting Company
  - Anaconda Company (3 files)
  - Anglo American Corporation
  - Aqua-Ran Water Supplies, Inc.
  - Arizona Interstate Stream Commission
  - Atlantic Seaboard Corporation
  - Attschul, Gilbert
  - Battelle Memorial Institute (2 files)
  - Bear Creek Mining Company (3 files)
  - Big Piney Oil and Gas Company
  - Binnie and Partners
  - Boy Scouts of America (3 files)
  - British Petroleum
  - Brunswick Mining and Smelting Corporation
  - Buckeye Irrigation Company
  - Burgess Publishing Company
  - Burnt Hill Tungsten and Metallurgical Ltd.
  - Columet and Hecla, Inc.
  - Carter Oil Company

Cassair Asbestos Corporation  
 Cherry Valley Improvement Association  
 Cities Service Company  
 Colorado Fuel and Iron Corporation  
 Colorado River Board of California  
 Continental Oil Company  
 Conwest Exploration Company  
 Cummings Prospecting Syndicate  
 Downing, Warwick M.  
 Dubois, C. C. (Belgium)  
 East Texas Geological Society  
 Ely, McCarthy and Duncan  
 Ewing, McDonald, Inc., J. A.  
 Fairchild Aerial Surveys  
 Fenno, Richard F.  
 Florida Flood Control District (Central and Southern)  
 Ford Motor Company  
 Frese, Walter F.  
 Geological Society of America  
 Geophysical Service Inc.  
 Glare Research Institute  
 Goodnews Bay Mining Company  
 Graton, L. C.  
 Greater Washington Educational Television Association, Inc.  
 Gulf Research and Development Company  
 Gulf Oil Corporation  
 Hanna Coal and Oil Corporation  
 Harza Engineering Company  
 Hawaiian Sugar Planters' Association  
 Heath Steel Mines, Ltd.  
 Heylman, E. B.  
 Husky Oil Company  
 Inter-American Geodetic Survey  
 International Geological Abstracting Service  
 International Petroleum Company  
 Johnson, Roy M.  
 Kennecott Copper Corporation (2 files)  
 Lane-Well Company  
 Lavino, E. J.  
 Magnolia Petroleum Company  
 Metro Asbestos Processors, Ltd.  
 Missouri-Kansas-Texas Lines  
 Moly-Four Corporation  
 Montana Cooperative Wildlife Research  
 Montgary Exploration Ltd.  
 Mountain Fuel Supply Company  
 National Broadcasting Company  
 National Geographic Magazine  
 New Jersey Zinc Company (2 files)  
 Oliver Iron Mining  
 Outdoor Recreation Resources Review Commission

- Pacific Science Congress
- Page Milk Company
- Palo Alto Mining Corporation
- Palomar Oil and Refining Corporation
- Pan American Petroleum Corporation
- Parker, Glenn
- Pure Oil Company
- Quebec Lithium Corporation
- Recordak Corporation
- Reed Research, Inc.
- Resources for the Future
- Reynolds Mining Corporation
- Richfield Oil Corporation (2 files)
- Rockefeller Foundation
- Salt River Valley Water Users Association (2 files)
- Schlumberger Well Surveying Corporation
- Science Service (co-projects)
- Shuiling, H. J.
- Scripps Institution of Oceanography
- Seismograph Service Corporation
- Sheffield Steel Corporation
- Shell Oil Company (2 files)
- Southern Railway System
- Sperry-Sun Well Surveying Company
- Standard Oil Company
- Standard Oil Company of California
- Stanford Research Institute
- Steffner Production, Wayne
- Sullivan Consolidated Mines, Inc.
- Technical Studies, Inc.
- Texas, The Railroad Commission of
- Tidelands Exploration Company
- Tipton and Kalmbach, Inc
- United Geophysical Corporation
- United States Steel Corporation (2 files)
- Utah Construction and Mining Company
- Utah Tourist and Publicity Council
- Utex Exploration Company
- Vare Industries
- Walker Engineering Commission
- Washington Board of Trade
- Water Resources Development Corporation
- Woods Hole Oceanographic Institute
- Wyoming Historical and Geological Society
- 7 *State, and Local Agencies, and Governments:*
- General (4 files)
- Files (arranged alphabetically by State, Territory or possession) (229 files)*

## EDUCATION

- General
- 1 Fellowships (5 files)

- 2 Schools (4 files)
- 3 Special Training Programs (5 files)
  - 3-1 Foreign Student, General (2 files)
  - 3-1 Foreign Students, A-M, N-Z (6 files)
- 4 Standards

#### ENGINEERING GEOLOGY

- 1 General
  - 1-3 Specific Construction Sites (4 files)
- 2 Research
  - 2-1 Construction Materials
  - 2-2 Landslides (4 files)

#### EQUIPMENT AND SUPPLIES

- 1 Classification (4 files)
- 2 Distribution (2 files)
  - 2-1 Allocation, Assignment and Rationing (5 files)
- 3 Maintenance and Preservation (4 files)
  - 3-1 Repair and Painting (3 files)
- 4 Procurement (5 files)
  - 4-1 Authorization to sell or buy (5 files)
  - 4-2 Bonds (3 files)
  - 4-3 Catalogs, Price Lists, and Schedules (4 files)
  - 4-5 Inspection and testing (3 files)
  - 4-6 Open Market - Contractors (4 files)
  - 4-7 Priorities and Expediting
  - 4-8 Purchase Orders (5 files)
  - 4-9 Rental of Equipment (5 files)
  - 4-10 Requisitions (4 files)
  - 4-11 Specifications, Bids, Contracts, General (3 files)
  - 4-11 Specifications, Bids, Contracts, A-M, N-Z (8 files)
- 5 Property Accountability (4 files)
  - 5-1 Inventories and Identification (4 files)
  - 5-2 Loans and Exchanges (5 files)
  - 5-3 Loss and Theft (4 files)
  - 5-4 Property Passes (2 files)
  - 5-5 Receiving Documents (2 files)
- 6 Requirements (4 files)
- 7 Storage (4 files)
- 8 Surplus Salvage, Conservation (5 files)
  - 8-1 Acquisitions (3 files)
  - 8-3 Declarations
  - 8-4 Disposals (5 files)
  - 8-5 Excess Lists (4 files)
  - 8-6 Transfers (5 files)

#### FORMS

- 1 Management and Control (5 files)
  - 1-1 Design, Standardization, and Revision (5 files)
  - 1-2 Clearance (5 files)
- 2 Procurement and Supply (4 files)

2-1 Requests for copies or Supplies (4 files)

GENERAL GEOLOGY

- 1 Bibliographies, References, Abstracts (5 files)
- 4 Glacial Geology (4 files)
- 6 Structural Geology (3 files)
- 7 *Surveys, Investigations, and Explorations:*
  - General (5 files)
  - Alaska
  - Alaskan Earthquake
  - National Wilderness Preservation System (Wilderness Act) (2 files)
  - OME, Requests for funds for minerals explorations (2 files)
  - Primitive Areas, A-M, N-Z (2 files)
  - Straight Creek Tunnel
  - Wildlife Refuge Areas
  - 7-1 Requests for (5 files)
- 8 Terminology (4 files)
- 9 *Volcanology:*
  - General (5 files)
  - Philippines (Taal Volcano)

GEOCHEMISTRY AND PETROLOGY

- 2 Basic Data Reports, Thesis (2 files)
- 5 Crystals and Crystallography
  - 5-3 X-Ray Crystallography, X-Ray Spectroscopy (4 files)
- 7 Geochemical Prospecting (2 files)
- 8 Minerals (2 files)
  - 8-1 Basic Data
  - 8-2 Chemical Analysis of (5 files)
  - 8-3 Identification of (5 files)
  - 8-4 Occurrences of in water
- 9 Ores - Collections (3 files)
- 11 Radioactivity (2 files)
- 12 Rocks (4 files)
  - 12-2 Chemical Analysis (5 files)
  - 12-5 Pegmatities
  - 12-6 Petrographic Determinations (3 files)
  - 12-7 Petrographic Methods
- 13 Salt and Saline Formations (2 files)
- 14 Weathering

GEOPHYSICS

- 1 Gravity (4 files)
  - 1-3 Gravity Exploration (4 files)
- 2 Magnetism (2 files)
  - 2-2 Magnetic Instruments
  - 2-3 Magnetic Exploration (4 files)
- 3 Seismology (3 files)
  - 3-1 Earthquakes (4 files)
  - 3-2 Elasticity
  - 3-3 Seismic Exploration (5 files)

- 3-3 Lake Superior (2 files)
- 3-3 Massachusetts Area
- 4 *Electricity*
  - 4-1 Earth Currents - Radio Waves (2 files)
  - 4-2 Electrical Explorations (3 files)
  - 4-3 Electromagnetic Exploration (3 files)
- 5 Radioactivity (2 files)
  - 5-1 Exploration (2 files)
- 6 Well Logging - Depository Core Library (2 files)
  - 6-3 Thermal (3 files)

## INFORMATION

- 1 Bibliographies (4 files)
  - 1-1 Domestic
- 2 Directories (4 files)
  - 2-1 City (2 files)
  - 2-2 Congressional (Directories ) (4 files)
- 3 Distribution and Sale of Geological Survey Publications (4 files)
  - 3-1 Agents - Commercial Firms (4 files)
  - 3-6 Government Agency Purchase (4 files)
  - 3-7 Mailing Lists, General
  - 3-7 Mailing Lists, A-M, N-Z (6 files)
  - 3-8 Policy
- 4 *Geological Survey Exhibits:*
  - General (4 files)
  - Exhibits, Fairs, Expositions, and Demonstrations (4 files)
  - New York World's Fair
  - Geological Survey Exhibits, Powell Centennial
- 5 *Films:*
  - General (2 files)
  - A-M, N-Z (4 files)
  - Eruption of Kilauea, A-M, N-Z (2 files)
- 6 General Policies (3 files)
  - 6-1 Permission to quote or use publications, general
  - 6-1 Permission to quote or use publications, A-M, N-Z (6 files)
  - 6-2 Inspection by public of field notes, maps, etc. (4 files)
- 7 Graphic (3 files)
- 8 Libraries (5 files)
  - 8-1 Experimental
  - 8-2 Technical
- 9 Manuscripts (editing of) (5 files)
- 9 "Brooks" Manuscript
- 10 Photographs (3 files)
- 10 Patterson, E. F.
- 10 A-F, G-M, N-Z (3 files)
- 11 Press and Radio Releases (7 files)
- 12 Publications (5 files)
- 12 A-M, N-Z (6 files)
- 12 Professional Paper 424
- 12 Water-Supply Paper 1800

- 12 Bulletin 1142-H
  - 12-1 Reports in Preparation (5 files)
  - 12-2 Published Reports (4 files)
  - 12-2 Philmont County Report
  - 12-3 Unpublished Reports (3 files)
  - 12-3 A-M, N-Z (4 files)
  - 12-3 Atlas, Lead-Zinc
  - 12-4 Research and Technical Data (3 files)
  - 12-5 Non-technical Data (2 files)
- 13 Publications of Outside Organizations, A-C, D-M, N-Z (3 files); A-M, N-Z (2 files)
- 13 Outside Bulletins and Pamphlets
- 13 Mining Year Book, 1958
- 13 Outside Organizations, Approval for Publication
- 13 Publications of Outside Organizations A-F, G-M, N-R, S-Z (4 files); A-F, G-M, N-Z (3 files)
  - 13-1 Newspapers and Clippings (4 files)
- 14 Radio and Video Broadcasts (4 files)
- 15 Recordings (2 files)
- 16 Requests for Information, General A-M, N-Z (6 files); A-F, G-M, N-Z (9 files)
- 16 National Association of Counties
- 16 Niagara River - American Falls (2 files)
- 16 Potomac River
- 16 Rainbow Bridge
  - 16-1 Requested by Geological Survey (3 files); A-M, N-Z (4 files)
- 17 *Speeches, Lectures, Statements:*
- 17 General, A-M, N-Z (2 files)
- 17 Industrial College of the Armed Forces, Lectures (4 files)
- 17 Speeches, Addresses (2 files)
- 17 Aandahl, Fred G.
- 17 Hardy, Royce A.
- 17 Nolan, Thomas B.
- 17 Seaton, Fred[erick]. A.
- 17 Statements (3 files)
- 17 Lectures
- 17 Speeches, General (2 files); A-M, N-Z (4 files)
- 17 Speeches by Survey Officials (2 files)
- 17 Papers (2 files)

## INVENTIONS

- 1 Copyrights, Patents, Trademarks, Applications, General (3 files)
- 1 Mechanical, Digital Punch Reports
- 1 Morris and Pillmore, Exaggeration Profile Plotter
- 1 General (2 files); A-M, N-Z (6 files)
  - 1-2 Permission to Use (2 files)

## INVESTIGATIONS

- General

## LAND

- 1 General (2 files)
- 1 Acquired (3 files)
- 2 Classification and Appraisal (2 files); A-M, N-Z (4 files)

- 2 Powersites, Classification, Appraisal, A-M, N-Z (2 files)
- 3 Indian (4 files)
  - 3-1 Oil Lands, Leases of Nominations for (4 files); A-M, N-Z (2 files)
- 4 Use and Conservation (5 files)
- 5 Withdrawals and Restorations (5 files)

## LEGAL

- General (2 files)
- 1 Claims and Litigation, Wills, and Gifts (3 files); A-M, N-Z (4 files)
- 1 Claims and Litigation, Wills, and Gifts, Hearings, A-M, N-Z (2 files)
- 1 Claims involving Federal Vehicles (3 files)
- 2 Decisions, Opinions and Interpretations (5 files)
  - 2-1 Attorney General (3 files)
  - 2-2 Comptroller General (6 files)
  - 2-3 Solicitor (7 files)
  - 2-3 Solicitor, Easements (3 files)
  - 2-4 Connally Act Violations (4 files)
- 3 Executive Orders (3 files)
- 4 Laws and Regulations, General (5 files)
  - 4A Acts (4 files)
  - 4B Public Laws (4 files)
  - 4C Regulations (3 files)
  - 4-1 Code of Federal Regulations (4 files)
  - 4-2 Federal Register (4 files)
- 5 Legislation, General (4 files)
- 5 Legislation, General [Oversize in box 349] (2 files)
- 5 Legislation, 85th Congress, 2nd Session
- 5 Legislation, 86th Congress, 1st Session
  - 5A Legislative Program (5 files)
  - 5B Legislation, Reports on (Proposed) (4 files)
  - 5C Congressional Record Digest (4 files)
  - 5D Congressional Publications (4 files)
  - 5-1 House of Representatives, General (5 files)
  - 5-1 House of Representatives, Joint Resolutions (5 files)
  - 5-1 House of Representatives, Bills (arranged by Congress and thereunder by bill number)
  - 5-1 House and Senate, Combined Bills (5 files)
  - 5-1 Senate, General (4 files)
  - 5-1 Senate, Joint Resolutions (5 files)
  - 5-1 Senate, Bills (arranged by Congress and thereunder by bill number)
  - 5-2 State and Territorial (5 files)
- 6 Notaries (4 files)

## MAP DISTRIBUTION

- General (2 files)
- Geologic Map of North America
- 1 Cooperators (5 files)
- 2 Discontinuance (2 files)
  - 2-2 Authority
- 3 Official Use (3 files)
- 4 Other Agency Maps (4 files)

- 5 Sales - Purchases of Maps (5 files)
  - 5-1 Individual Maps (5 files)
  - 5-2 Wholesale
- 6 Storage
  - 6-1 Denver
  - 6-2 Washington
- 7 Stocks, Inventories of Maps
- Map Production*
  - 1 Capacities, Base Maps, Policy on (4 files)
    - 2-1 Assignments
    - 2-2 Funds Formula
  - 5 Performance
    - 5-1 Cost Analysis (5 files)
  - 7 Reports (4 files)
  - 8 Schedules, Cartographic Activities (3 files)
    - 8-1 Mapping, Pre. Maps Program, etc. (4 files)
    - 8-1 Schedules, Mapping
    - 8-1 Photogrammetrists, Association of Professional
    - 8-1 Association of Air Surveyors
    - 8-1 Special, Map Making Activities (4 files)
    - 8-2 Schedules, Reproduction - Revision, Base Maps, State Index Maps (5 files)
- Mapping Techniques*
  - 1 Accuracy (6 files)
    - 1-1 Datum, Basic Data, Special Notes (3 files)
    - 1-4 Horizontal Observations
    - 1-5 Scales - Conversions
    - 1-6 Testing
  - 2 Approved Abbreviations
  - 3 Classification and Appraisal
  - 4 Color Tone (3 files)
  - 5 Cartographic Activities
  - 5 Compilation, Cartographic
    - 5-2 Source Data (2 files)
    - 5-3 State Maps, Base Maps, and County Maps (5 files)
  - 6 Compilation, Plane table (2 files)
  - 7 Compilation, Stereo, Photogrammetric (4 files)
    - 7-1 Compilation, Kelsh, Photogeologic Mapping
    - 7-2 Multiplex
    - 7-4 Stereoplanograph
  - 8 Drafting (2 files)
  - 9 Editing and Checking (3 files)
  - 11 Features (2 files)
    - 11-1 Cultural (3 files)
    - 11-2 Hydrographic
    - 11-3 Hypsographic
    - 11-4 Land, Surface (2 files)
  - 12 Names (5 files)
    - 12-1 Geographic Names (5 files)
    - 12-2 Placement (2 files)
    - 12-3 Quadrangle Names (3 files)

- 13 Photography, including Aerial Photography (5 files)
  - 13-1 Availability Procurement (5 files)
  - 13-2 Delivery
- 14 Plate Separation (Color Separation) (2 files)
- 15 Projections and Grids (2 files)
- 16 Research and Development
  - 16-5 Reports
  - 16-7 Serial Numbering
- 18 Standards (2 files)
- 19 Symbols (3 files)

## MEETINGS

### General (2 files)

#### 1 *Engagements, Invitations:*

General (2 files)

*Files* (arranged alphabetically by name of individual, organization, geographic area or meeting)

A-M, N-Z (6 files)

Fischer, William A.

Johnston, William D.

Nolan, Thomas B. (2 files)

Pecora, William T.

#### 2 Interior Department (4 files)

*Files* (arranged alphabetically by program area, name of individual, subject, agency or committee)

2-1 Geological Survey (4 files)

2-1 General (4 files)

2-1 Authorization to attend

2-1 Employment Policy

2-1 Fuels Branch

2-1 Geology

2-1 Geochemistry and Petrology Branch

2-1 Conference on the Hydrology of Volcanos

2-1 Land Classification

2-1 Petroleum Geology Colloquim

2-1 Paleontology and Stratigraphy Branch Lexicon Project

2-1 Regional Engineers, Topographic Division

2-1 Water Resources Division

#### *Inter-Bureau*

2-2 General (5 files)

2-2 Bureau of Land Management

2-2 Compliance Officers

2-2 Correspondence Workshop "Plain Letters"

2-2 Field Conferences - Property and Records

2-2 Field Executive Management Conference

2-2 Geological Survey - Fish and Wildlife Service

2-2 Joseph A. Holmes Safety Associations

2-2 Legislative Expeditors

2-2 Mines, Bureau of

2-2 National Park Service

2-2 Oil Shales - Mines - Geological Survey

2-2 Property Management Personnel

2-2 Scientific Research and Development, Committee for

- 3     *Interagency:*  
General (5 files)  
Antarctic Activities, Argentina  
Antiquities Act, Conference on  
Archaeological Remains, Recovery of  
Army-Interior Mapping, Charting and Aerial Photography Plan  
Army-Geological Survey  
Atomic Energy Commission  
Commerce-Interior Departments  
Defense, Department of  
Delaware Basin Survey Meeting  
Federal Management Conference USCSC  
Federal Map Users Conference (2 files)  
Forest Service  
Frequency Control, 10th Annual Symposium on  
Housing and Home Finance Agency  
Interagency Advisory Group (U. S. Civil Service Commission) (4 files)  
Interior  
Interstate Compact - Oil and Gas Conserve  
Motor Equipment Conference  
National Inventory of Soil and Moisture Conservation Needs  
National Science Foundation  
Naval Research Laboratory (2 files)  
Navy-Geological Survey  
Nonferrous Metals Advisory Committee, Interdepartmental  
Outer Continental Shelf  
Personnel Executives Conference  
Petroleum and Natural Gas, Committee on  
President's Committee on Government Contracts  
Regional Inter-Agency Supply Management Conference  
Saline Water Commission  
Small Business Administration  
State Department  
Water Resources Basic Data Program  
Weather Bureau
- 4     *International:*  
General (5 files)  
Arctic Geology, International Symposium on  
Australia and Oceania, Conference on Geological Map of  
Botanical Congress, 8th International  
British Commonwealth Survey Officers Conference  
Buenos Aires, Antarctic Symposium of  
Canada, National Research Council of  
Canadian-U.S. Mapping  
Carboniferous Stratigraphy, 4th Congress  
Cartographical Conference, International  
Cartography, Pan American Consultation, 8th  
Cartography, VII Consultation on  
Centenary Congress  
Commonwealth Mining Congress, 6th  
Conservation of Nature and Natural Resources, International Union of

Continental Shelf  
 Crystallography, International Union of  
 Cuban Congress on Petroleum, 1st  
 Economic Commission for Asia and Far East (5 files)  
 Electronic and Nuclear Energy Exhibit Conference, International 5th  
 Geodesy and Geophysics, International Union of (3 files)  
 Geological Map of the World, Commission for the  
 Geological Science, International Union of  
 Geological Society of America  
 India Geological Society  
 Industrial Chemistry, International Congress of  
 Inter-American Conference regarding the Outer Continental Shelf  
 International Atomic Energy Agency  
 International Conference on Permafrost  
 International Conferences '56 and '57  
 International Congress on Quaternary Research IV  
 International Geological Congress (5 files)  
 International Geophysical Year  
 International Hydraulic Congress  
 International Hydrological Decade  
 International Law of the Sea  
 International Law of the Sea, Meetings  
 International Map of the World  
 International Society of Photogrammetry  
 International Union of Geodesy and Geophysics (2 files)  
 International Union of Geological Sciences  
 Japan, Geological Society of  
 Map of the World, Commission for the  
 Mexico Geological Congress  
 Nuclear Geophysics, Conference of  
 Pacific Science Conference  
 Pacific Science Congress  
 Pakistan Science Conference, 9th  
 Paleontological Society  
 Pan American Institute of Geography and History  
 Pan American Soil Conservation Congress  
 Peaceful Uses of Atomic Energy  
 Peru Geological Congress  
 Photogrammetry, International Congress and Exposition of  
 Photogrammetry, International Society of (2 files)  
 Photogrammetry, International Society of, 9th  
 Photogrammetric Research, International Organization for  
 Plenipotentiaries, International Conference of  
 Quaternary Research, International Association on  
 Radiocarbon Conference  
 Royal Netherlands Meteorological Institute  
 Russia  
 Science and Human Welfare  
 Sedimentology, 5th International Congress of  
 Soil Mechanics, International Society of  
 South American Congress on Botany, 3rd

- Teheran
  - Tokyo (Pacific Geologic Mapping Program)
  - United National Economic Commission for Asia and Far East
  - United Nations (2 files)
  - United Nations Educational, Scientific and Cultural Organization (2 files)
  - Water Desalination, International Symposium on
  - Water for Peace, International Conference on
  - Watershed Management Tour and Seminar, FAO Sponsored
  - World Meteorological Organization
  - World Petroleum Congress
  - World Petroleum Congress, 4th
  - World Power Conference, 5th
  - World Power Conference, National Committee on
  - Zoological Congress, International
  - Zoological Nomenclature, International Trust for
- 5 *National:*
- General (5 files)
  - AIME (American Institute of Mining and Metallurgical Engineers)
  - Alaskan Science Conference (3 files)
  - American Anthropological Society
  - American Association for the Advancement of Science (3 files)
  - American Association of Petroleum Engineers
  - American Association of Petroleum Geologists (3 files)
  - American Association of State Geologists
  - American Astronautical Society
  - American Chemical Society
  - American Commission on Stratigraphic Nomenclature
  - American Congress on Surveying and Mapping (5 files)
  - American Forestry Association
  - American Geographical Society
  - American Geological Institute (3 files)
  - American Geophysical Union (2 files)
  - American Institute of Mining Engineers
  - American Institute of Mining, Metallurgical and Petroleum Engineers (4 files)
  - American Management Association Conference on Data Processing
  - American Military Engineers, Society of
  - American Mining Congress (5 files)
  - American Road Builders, Association of
  - American Society for Public Administration
  - American Society of Civil Engineers (4 files)
  - American Society of Photogrammetry (5 files)
  - American Standards Association
  - American State Geologists, Association of (5 files)
  - Americana Zinc Institute
  - Associated Universities, Inc.
  - Boy Scouts of America (2 files)
  - Case Institute of Technology
  - Chamber of Commerce, U. S.
  - Computing Machinery, Association for, 12th
  - Conservation Education Association
  - Defense Mobilization Committee

Engineers and Architects Day  
 Exchange of Persons, National Conference on  
 Federal Government's Accountants Association  
 Geological Society of America (3 files)  
 Government Contracts, President's Committee on  
 Government Employment Policy, President's Committee on  
 Holmes Safety Association, Joseph A. (2 files)  
 Independent Petroleum Association of America (2 files)  
 Instrument Symposium and Research Equipment, 8th  
 Izaak Walton League of America  
 Lead Industries Association  
 Mineralogical Society of America  
 National Petroleum Council  
 National Resources Conference  
 National Rivers and Harbors Congress  
 National Science Foundation (2 files)  
 National Science Teachers Association  
 National Secretaries Association (2 files)  
 National Water Research Symposium  
 National Water Resources Institute  
 National Watershed Congress  
 Occupational Safety, President's Committee on  
 Pacific Geophysical Institute  
 Pacific Science Congress  
 Petroleum Engineers, Society of  
 Petroleum Sciences, Conference on Education in  
 Photogrammetrists, Association of Professional  
 Resources for the Future  
 Resources for the Future, Forum '58  
 Society of Petroleum Engineers  
 Soil Conservation Districts, National Association of  
 Water Pollution, National Conference on  
 6     *State, City, and Regional*  
       General (5 files)  
       Alaskan Science Conference  
       Ardmore Geological Society  
       Brookings Institution Conference  
       California Public Outdoor Recreation Plan Committee  
       Colorado School of Mines  
       Colorado Mining Association  
       Denver Chamber of Commerce  
       Engineers and Architects, D.C. Council of  
       Geological Society of Washington  
       Kentucky  
       Kentucky Department of Economic Development  
       Maine Department of Economic Development  
       Minerals and Petroleum Conference, 3rd  
       Montana Natural Resources Council  
       North Carolina  
       Northwest Mining Association  
       Pennsylvania Water Resources Council

Regional Conferences  
 Society of Economic Geologists Symposium, March 1966, New York City  
 Spokane Conference on Geophysics and Photogeology  
 State Governments, Council of  
 Texas - Urban Environmental Studies  
 Utah Geological Society  
 Washington Litho Club  
 Washington Power Commission  
 Water Systems Council  
 Waterusers - Water District #36 (Idaho)  
 Western State Engineers, Association of  
 Yuma County Water Users Association

#### MILITARY GEOLOGY

- General
- 1 Alaska Terrain and Permafrost
  - 1-1 Surveys and Studies (2 files)
  - 1-2 Reports (2 files)
- 2 Pacific Islands (2 files)
  - 2-1 Surveys and Studies
  - 2-2 Reports
- 3 Strategic Engineering Studies
  - 3-1 Surveys and Studies
  - 3-2 Military Geology

#### MINERAL COMMODITIES

- 1 General (5 files)
- 8 Barite
- 9 Bauxite (3 files)
- 18 Calcite, optical (2 files)
- 19 Colemanite
- 20 Quartzite
- 22 Chromite
- 23 Cobalt
- 24 Columbium
- 33 Feldspar
- 34 Fluorspar (2 files)
- 44 Ilmenite
- 48 Iron
- 49 Kaolinite
- 52 Limestone
- 53 Lithium
- 55 Magnesium
- 56 Manganese (2 files)
- 57 Mica
  - 57-1 Mirabilite
- 58 *Molybdenum*
  - 58-1 Navajoite
- 62 Pegmatites
- 63 Phosphate

- 65 Potassium Salts
- 68 Mercury
- 81 Sulphur
- 83 Titanium
- 87 Tin
- 88 Titanium
- 92 Tungsten
- 93 Uranium

#### MINES AND MINING

- General (2 files)
- 1 Companies and Operators, Applications (4 files)
- 2 Drainage (2 files)
- 3 Leases and Leasing (2 files)
  - 3-1 Mineral Rights (2 files)
- 5 Placer Claims (2 files)
- 6 Prospecting (3 files)
- 7 Operations
  - 7-1 Excavating, Tunneling and other Advance Work
  - 7-4 Stripping, Overburden
- 8 Safety and Accidents (3 files)
  - 8-1 Coal Combustion (2 files)
  - 8-5 Safety and Accidents (Disasters) (3 files)
  - 8-6 Fires
  - 8-9 Orders and Regulations
- 9 Survey - Reports (3 files)

#### NATIONAL DEFENSE

- 1 General (3 files)
- 1 Civil Defense (4 files)
- 1 Liaison Officer (4 files)
- 1 Operation Alert (2 files)
- 1 Radiological Monitoring (4 files)
- 2 Water Problems
- 3 Construction and Housing (3 files)
- 6 Manpower (4 files)
- 7 Military Defense

#### OIL AND GAS

- General
- 1 Accumulation and Sale of Oil (4 files)
- 2 Analysis
- 3 Discoveries
  - 3-1 Rates
- 4 Drill Samples (2 files)
  - 4-1 Core Studies (2 files)
  - 4-2 Methods of Examination
  - 4-3 Storage
- 5 Drilling Operations (5 files)
  - 5-1 Deep Drilling
- 6 Exploration and Development (2 files)

- 6 Katalla-Yakataga Development Contract
- 6 Exploration and Development Contracts (4 files)
- 6 Outer Continental Shelf
  - 6-1 Exploration and Development
  - 6-3 Oil Possibilities (3 files)
- 7 Geologic Structures
- 8 *Gases*
  - 8-2 Helium (4 files)
- 9 Oil Companies Utilization (5 files)
  - 9-1 Pipelines
- 10 *Oil Fields*
  - 10-1 Alaska
  - 10-1 New Mexico
  - 10-1 Oklahoma
  - 10-1 Texas
  - 10-1 States (2 files)
- 12 Prices and Taxes
  - 12-1 Crude Oil
  - 12-2 Gasoline
  - 12-3 Natural Gas
- 13 Production Estimates (5 files)
- 14 Prospecting Methods
  - 14-6 Surface
- 15 Reserves
  - 15-2 NPR #2 Utah
  - 15-2 NPR #3 Wyoming
  - 15-2 NPR #4 Alaska
  - 15-2 Naval Petroleum Reserves (3 files)
- 16 Reservoirs
- 18 Storage (3 files)
  - 18-1 Underground (4 files)
- 20 Transportation
- 21 Valuation of Properties
- 22 Well Logs
  - 22-3 Radioactive

#### OIL SHALE

- General
- 1 Analysis
- 3 Exploration and Development (3 files)
- 4 Lands (2 files)

#### ORGANIZATION AND MANAGEMENT

- 1 Administrative Issuances, General (4 files)
- 1 Comptroller General, General, Regulations
- 1 Director's Memos
  - 1-1 Administrative Circulars
  - 1-2 Administrative Digests (4 files)
  - 1-3 Administrative Service Letters (3 files)
  - 1-4 Budget Bulletins (3 files)
  - 1-4 Budget Bulletins, Effects of Alaska Statehood

- 1-5 Budget Circulars (4 files)
- 1-6 Budget and Finance Letters [numbered] (5 files)
- 1-6a Budget and Finance Letters, Supplements (3 files)
- 1-7 Handbook (General) (3 files)
- 1-7 Handbook (Official Organization)
- 1-7 Correspondence and Style Handbook
- 1-7 Emergency Handbook (Civil Defense), Interior Department, Geological Survey Chapter
- 1-7 Handbook, Watershed Protection, Soil Conservation Service, Under Public Law 566
- 1-10 Management Highlights (2 files)
- 1-11 Manuals (General)
- 1-12 Departmental Manuals (General) (5 files)
- 1-12a Departmental Manuals, Releases
- 1-13 Manuals (Survey) or Survey Manual (4 files)
- 1-13a Survey Manual Releases (2 files)
- 1-13b Administrative Division (2 files)
- 1-13c Conservation Division (2 files)
- 1-13d Geologic Division (2 files)
- 1-13e Publication Division (2 files)
- 1-13f Topographic Division (2 files)
- 1-13g Water Resources Division (2 files)
- 1-14 Personnel Management Letters (2 files)
- 1-14a Procurement and Supply Letters (2 files)
- 1-15 Secretary's Orders, General
- 1-15a Secretary's Orders, Revisions and Amendments (3 files)
- 2 Establishment, Reorganization, Liquidation and Consolidation (3 files)
- 2 Geophysical Institute (Hawaii)
  - 2-1 Decentralization or Dispersal of Activities (3 files)
  - 2-2 Functions and Delegation (3 files)
  - 2-3 Interior Department (3 files)
  - 2-4 *Geological Survey*:
    - General
    - Branches, Units, Division, etc.
    - Administrative Division (3 files)
    - Computation Branch (2 files)
    - Conservation Division (3 files)
    - Institute of Water Research
    - Mount Carmel Office
    - Roswell Office
    - Denver Library
    - Electronics Section
    - Federal Petroleum Board
    - Geologic Division (3 files)
    - Legal Activities
    - Library
    - Mid-Continent Center
    - Menlo Park Office
    - Photo Unit
    - Phreatophyte Research
    - Public Inquiries Office (2 files)
    - Division of Publications
    - Rolla, Missouri Office

- Service and Supply Branch
- Stock Room
- Technical Illustrations
- Office of Texts
- Topographic Division (2 files)
- Water Resources Division (3 files)
- Wisconsin
- 2-5 Other Agencies - Outside Organizations (3 files)
- 3 Management Improvement Programs (4 files)
- 3 Committee Management Program
  - 3-1 Suggestions and Honor Award (2 files)
  - 3-2 Surveys and Studies (3 files)
- 4 Procedure and Method, Mineral Losses

#### PALEONTOLOGY AND STRATIGRAPHY

- 1 General (2 files)
- 1 Fossils (2 files)
- 2 Fossil Determination (4 files)
  - 2-1 Age Determinations (2 files)
- 3 Reports on Referred Fossils
- 4 Rock Strata and Units
- 5 Specimens (collections, requests for; collection and curatorial work) (5 files)
  - 5-1 Classification (2 files)
  - 5-3 Storage
  - 5-4 Records of (3 files)
  - 5-6 To be sent to the National Museum (5 files)

#### PERSONNEL

- 1 Appointment Procedures (5 files)
  - 1-1 Consultants (5 files)
  - 1-2 Competitive and Non-competitive (3 files)
  - 1-3 Excepted (4 files)
- 2 Bulletins and Pamphlets, News Posters (4 files)
  - 2-1 Boards and Committees of Expert Examiners (4 files)
  - 2-2 Management Notes (2 files)
  - 2-3 Personnel Bulletins
- 3 Classification, Duties, Salaries (5 files)
  - 3-1 Allocation Standards (2 files)
  - 3-2 Classification Act Positions (4 files)
  - 3-3 Civil Service Commission (4 files)
  - 3-4 Job Descriptions, New Positions, Position Review (5 files)
  - 3-5 Schedule A or Excepted Positions (5 files)
  - 3-5 Postdoctoral Research Program by NAS-NRC
  - 3-6 Wage Rates and Ungraded Positions (5 files)
- 4 Conduct (3 files)
  - 4-1 Commendations (5 files)
  - 4-2 Complaints, Charges, Debts (5 files)
  - 4-3 Disciplinary Action (2 files)
- 5 Court Attendance (9 files)
- 6 Delegation of Authority (10 files)
  - 6-1 Departmental

- 6-2 Field
- 7 Details or Assignments of Employees (9 files)
  - 7-1 Foreign (8 files)
  - 7-2 Reimbursable Details (5 files)
  - 7-3 Rotation (3 files)
- 8 Displacement - Reassignments (5 files)
  - 8-1 List of Displaced Career Employees
- 9 Employee Relations (4 files)
  - 9-1 Awards, Citations, and Employee Suggestions (18 files)
  - 9-1 Awards and Citations (Foreign Government Awards) (3 files)
  - 9-1 Awards and Citations, Honor Awards and Length of Service
  - 9-1 Incentive Awards (4 files)
  - 9-1 Incentive Awards, Quarterly Report
  - 9-1 Incentive Awards Committee (2 files)
  - 9-1 Awards and Citations, William A. Jump Memorial Award
  - 9-1 Awards and Citations, Cash Award for Superior Service
  - 9-1 SCROLL, Brazilian Geological Society
  - 9-1 Quality Increases (2 files)
  - 9-1 Awards and Citations, Awards for Superior Performance (6 files)
  - 9-1 20 Year Service Awards (3 files)
  - 9-1 30 Year Service Awards (7 files)
  - 9-1 More Than 30 Years Service (2 files)
  - 9-2 Blood Donors (4 files)
  - 9-3 Clubs and Societies (4 files)
  - 9-4 Contributions (Solicitation of Funds) (5 files)
  - 9-5 Counseling, Income Tax Information (4 files)
  - 9-6 Employee Compensation (4 files)
  - 9-7 Employee Participation in Management
  - 9-8 Employee Services and addresses and Biographical Data (5 files)
  - 9-9 Grievances (5 files)
  - 9-10 Outside Work of Employees (8 files)
  - 9-11 Political Activities (5 files)
  - 9-12 Recreation, Welfare and Education (5 files)
  - 9-13 Unions, Credit Union, etc. (5 files)
- 10 Hours of Duty (Overtime) (9 files):
  - Branch of Budget and Finance (3 files)
  - Branch of Computation (3 files)
  - Conservation Division
  - Denver Office
  - Director's Office (3 files)
  - Duplication Section (3 files)
  - Pacific Coast
  - Branch of Personnel (3 files)
  - Branch of Service and Supply (3 files)
  - Branch of Technical Illustrations
  - Water Resources Division
  - Administrative Division (2 files)
- 11 Identification Cards (5 files)
- 12 Inspection Reports (4 files)
  - 12-1 Civil Service Commission Inspection Reports (5 files)
  - 12-2 Departmental

- 13 Laws and Regulations (4 files)
  - 13-1 Acts
  - 13-2 Departmental Circulars (Civil Service Commission) (5 files)
  - 13-3 Executive Orders
  - 13-4 Policy and Procedures (5 files)
  - 13-5 Secretarial Orders
- 14 Leave and Holidays (13 files)
- 15 Military Service (5 files)
  - 15-1 Deferment (5 files)
  - 15-2 Military Leave (4 files)
  - 15-3 Preference, Reemployment Rights, Defense Transfers (3 files)
  - 15-4 Reserve Activities (3 files)
- 16 Performance Ratings (5 files)
  - 16-1 Appeals
  - 16-2 Instructions (4 files)
  - 16-3 Reports (3 files)
- 17 Personnel Ceilings (5 files)
  - 17-1 Personnel Files (3 files)
- 18 Promotions and Demotions (8 files)
- 19 Records and Reports (5 files)
  - 19-1 Budget (2 files)
  - 19-2 Employment Reports (6 files)
  - 19-3 Inventory (2 files)
- 20 Recruitment, Staffing Patterns and Ceilings (8 files)
  - 20-1 Applications (8 files)
  - 20-2 Certificates, CSC (2 files)
  - 20-3 CSC Appointment Requirements (5 files)
  - 20-4 Examinations and Tests (5 files)
  - 20-5 Investigations (2 files)
  - 20-6 Mobilization and Utilization of Personnel (5 files)
  - 20-7 Qualification Standards (4 files)
  - 20-8 USC Authorities
  - 20-9 Vacancy Lists (5 files)
  - 20-10 Waiver of Foreign Residence Requirements (2 files)
- 21 Retirement and Social Security (4 files)
- 22 Safety, Reports on (5 files)
  - 22-1 Accidents [14]
  - 22-1 Alaska Drowning (an incident)
  - 22-2 First-Aid Treatment (5 files)
  - 22-3 Inspection and Instructions
- 24 Separations (5 files)
  - 24-1 Exit Interviews
  - 24-2 Reductions in Force (4 files)
  - 24-3 Removal for Cause (5 files)
  - 24-4 Resignations (5 files)
  - 24-5 Retirement (5 files)
- 25 Training (11 files)
- 25 Training, Industrial College of the Armed Forces
  - 25-1 Department Management Training Program (5 files)
  - 25-2 In-Service (8 files)
  - 25-3 Orientation (5 files)

- 25-4 Training in Foreign Relations and Languages
- 25-4 Training in a Non-Government Facility (8 files)
- 26 Transfers (5 files)
- 26-1 Transfers to Outside Organizations other than Federal
- 27 Registers, Eligibles on (2 files)

#### PHYSICAL EXPLORATIONS

- 4 Core Storage

#### PROGRAMS AND PLANS

- 1 General (3 files)
- 1 Annual (4 files)
- 1 Area Redevelopment Program (6 files)
- 1 Rural Redevelopment Program
  - 1-1 *Projects, Justifications:*
    - General (5 files)
    - Apostle Islands (2 files)
    - Appalachian Region (2 files) (also titled Appalachia)
    - Broncho Project
    - Colorado River, Upper and Lower (2 files)
    - Colorado River, Lower
    - Colorado River, Upper
    - Comprehensive River Basin Planning (2 files)
    - Gasbuggy Project
    - Heavy Metals Program
    - International Cooperation Year (2 files)
    - International Hydrological Decade (2 files)
    - Marine Resources Development Program
    - Natural Beauty Programs (2 files)
    - Open Space Project (2 files)
    - Potomac River Basin (2 files)
    - Rampart Dam Impact Study, Alaska (2 files)
    - Upper Mantle Project (2 files)
    - Vela Uniform
    - Water for Peace
  - 1-2 States (5 files)
- 2 Authorizations
- 3 Foreign (4 files)
- 4 Long Range (20 Year) (4 files)
- 4 Long Range, 10 and 20 Years
- 4 Long Range Publications
- 5 Policy Considerations (4 files)
- 6 Priorities (3 files)
  - 6-1 Cooperative, State designated (5 files)
  - 6-2 Federal Agencies [through] Bureau of the Budget (5 files)
  - 6-3 Field Committees, Mapping (5 files)
  - 6-4 Individual Requests
  - 6-6 Military (2 files)
- 7 Short Range (6 Years) (2 files)
  - 7-1 Department (Field) Regions
  - 7-1 Instructions - Field Committee Regional Program Reports (2 files)

- 7-2 Regional Program Report
- 7-3 States
- 8 *Special Programs:*
  - General (5 files)
  - Antarctica (3 files)
  - Argo
  - Arid Lands
  - EROS - Earth Resources Observation Satellites (4 files)
  - Estuarine Research
  - International Year of the Quiet Sun
  - Long Range Plan, U. S. Geological Survey, Comments and Suggestions from Government, Industry, Education on the (filed loose)
  - Oceanography (3 files)
  - Rutile and Titaniferous Materials Development Program

#### PUBLIC RELATIONS

- 1 Commendations, Congratulations (2 files)
- 1 Commendations, Congratulations, A-M, N-Z (6 files)
- 2 Criticisms and Complaints (2 files)
- 2 Criticisms and Complaints, A-M, N-Z (6 files)
- 2 International Helicopters, Inc.
- 2 "Mussling the Geologists"
- 3 Petitions and Resolutions (6 files)
- 4 Introductions (5 files)
- 5 Representatives and Visitors (2 files)
- 5 Representatives and Visitors, A-M, N-Z (8 files)
- 6 State and Cooperating Officials, List of (5 files)
- 7 Sympathy, Condolence (5 files)
- 8 U.S.G.S. Personnel Serving on Committee Boards and Outside Organizations as Advisors (4 files)
- 9 Service and Communication with the Public

#### RECORDS

- *Memo For:*
  - A-M, N-Z (6 files)
  - Baker, Arthur A.
  - Lyddan, R[obert]. H.
  - Nichols, Herbert B.
  - Nolan, Thomas B.
  - Wayland, Russell G.
  - Woodward, Douglas R. (3 files)
- 1 Anonymous and Crank Letters (4 files)
- 2 Certified or Authenticated Copies (2 files)
- 2 Certified or Authenticated Copies, A-M, N-Z (6 files)
- 3 Disposition and Storage (5 files)
  - 3-1 Disposal (3 files)
  - 3-2 Inventories (2 files)
  - 3-3 Reports (5 files)
  - 3-4 Transfer to Federal Records Center
  - 3-5 Transfer to National Archives (3 files)
  - 3-6 Transfer between Federal Agencies
  - 3-7 Transfer within Interior Department (2 files)

- 4 Filing Systems and Procedures (2 files)
- 5 Management (2 files)
  - 5-1 Surveys
- 6 Microphotography
- 7 Personal (5 files)
- 7 Mr. Baker's Letters
- 7 Mr. Nolan's Letters
- 7 Nichols, Herbert B.
- 8 Requests to and from National Archives and Federal Records Center
- 9 Disclosure of Documents from NARS

#### RELATED SCIENCES

- 1 Archeology
- 4 *Mathematics*
  - 4-1 Computations and Methods
- 6 Physics

#### REPORTS AND STATISTICS

- General
- 1 State of the Union Message
- 1 Management or Control (2 files)
  - 1-1 Congressional Committees, Reports to (General) (5 files)
  - 1-1 House Armed Services Committee
  - 1-1 Joint Committee on Atomic Energy
  - 1-1 House Committee on Government Operations (3 files)
  - 1-1 Senate Committee on Government Operations (2 files)
  - 1-1 Hoover Commission
  - 1-1 House Appropriations Committee (2 files)
  - 1-1 House Government Information Subcommittee (Scientific and Technical)
  - 1-1 House Committee on Interior and Insular Affairs (2 files)
  - 1-1 Senate Committee on Interior and Insular Affairs (3 files)
  - 1-1 House Subcommittee on Intergovernmental Relations
  - 1-1 Joint Economic Committee
  - 1-1 House Sub-Committee on Manpower Utilization (3 files)
  - 1-1 Mineral and Water Resources Reports - States
  - 1-1 Select Committee on National Water Resources
  - 1-1 Special Sub-Committee to the President's Committee on Government Contracts
  - 1-1 Senate Sub-Committee on Reorganization and International Organization
  - 1-1 Senate Appropriations Committee (2 files)
  - 1-1 Special Senate Committee on Space and Astronautics
  - 1-1 House Appropriation Committee, Surveys and Investigations (2 files)
  - 1-1 House Committee on Space and Astronautics (2 files)
- 2 General
- 2 Interior Department (2 files)
- 2 Achievements, Accomplishment, Administrative
- 2 Administrative - Confidential
- 2 Secretary's Office, Acting, Under, Assistant (7 files)
- 2 Assistant Secretary, Mineral Resources
- 2 Assistant Secretary, Public Land Management
- 2 Assistant Secretary, Water and Power
- 2 Secretary

- 2 Under Secretary
- 2 Secretary, Reports to
- 2 Annual Reports (3 files)
- 2 Monthly Reports (3 files)
- 2 Monthly Reports (Narrative) (2 files)
- 2 Weekly Reports
- 2 Publications
- 2 "Bodega Head"
- 2 Critical Issues
- DMEA Activities, Region VII
- Emergency Procurement Service, GSA
- 2 GAO Audit
- 2A GS Activities for the President
- 2 Science Advisor (2 files)
- 2 "User Charges"
  - 2-1 Budget and Finance (11 files)
  - 2-1 Commercial-Industrial Activities (2 files)
  - 2-1 Cost Reduction and Manpower Utilization
  - 2-1 Public Works Programs (2 files)
  - 2-1 Research and Development (4 files)
  - 2-2 Chief Clerk's Office (3 files)
  - 2-2 Office of Management Operations (2 files)
  - 2-3 Compliance Officer (3 files)
  - 2-4 Division of Information (5 files)
  - 2-5 Division of Inspection (3 files)
  - 2-6 Division of Management Research (5 files)
  - 2-7 Office of Minerals Exploration (2 files)
  - 2-8 Office of Minerals Mobilization (2 files)
  - 2-8 Office of Minerals and Solid Fuels
  - 2-9 Office of Oil and Gas (3 files)
  - 2-10 Director of Personnel (Interior) (5 files)
  - 2-11 Division of Property Management (4 files)
  - 2-12 Safety Engineer (3 files)
  - 2-12.1 Division of Security
  - 2-13 Office of the Solicitor (5 files)
  - 2-14 Technical Review Staff (5 files)
  - 2-TR Effects of Alaska and Hawaii statehood
  - 2-TR International Conferences
  - 2-TR Briefing Book - Trips
  - 2-14 State Briefing Books (followed by folders arranged alphabetically by State)
  - 2-14 Resources Program Staff (2 files)
  - 2-15 Branch of Library Services (2 files)
  - 2-16 Office of Survey and Review
  - 2-17 Office of Water Resources Research
- 4 Project Review Coordinator (3 files)
- 4 Bureau of Land Management
- 4 Bureau of Mines
- 4 National Park Service
- 4 National Science Foundation
- Public Health

- 4 Bureau of Reclamation (4 files)
  - 4-1 Geological Survey Comments
  - 4-1 Project Review, Agriculture Department
  - 4-1 Atomic Energy Commission
  - 4-1 Bureau of the Budget
  - 4-1 Commerce Department
  - 4-1 Project Review Coordination, Army Corps of Engineers (6 files)
  - 4-1 Corps of Engineers, Public Notices (2 files)
  - 4-1 Fish and Wildlife Service
  - 4-1 GSA- Emergency Procurement Service
  - 4-1 HEW
  - 4-1 Corps of Engineers, Notices of Public Hearings (4 files)
  - 4-1 Office of Territories
  - 4-1 Other Departments and Agencies
  - 4-2 Federal Power Commission (followed by folders arranged by project number)
  - 4-2 Federal Power Commission Projects, General (2 files)
  - 4-3 Work Plans, Watersheds, General (3 files)
  - 4-3 Work Plans, Watersheds, A-M (2 files)
  - 4-3 Work Plans, Watersheds, N-Z (2 files)
  - 4-3 Work Plans, Watersheds, Agriculture, SCS
- 5 Director's Office (2 files)
- 5 "Compliance Survey"
- 5 "Internal Audit," General
- 5 "Internal Audit," Division, Branch, Units
- External Audits (GAO) [24]
- Internal Audits (2 files)
- 5 Internal Audit, Administrative Division
- 5 Internal Audit, Conservation Division (2 files)
- 5 Internal Audit, Geologic Division
- 5 Internal Audit, Publications Division
- 5 Internal Audit, Topographic Division (2 files)
- 5 Internal Audit, Water Resources Division (3 files)
- Office of the Chief Auditor, issued reports, No. 1-58
  - 5-1 Administrative Division (4 files)
  - 5-1 Budget Section (2 files)
  - 5-1 Branch of Computation
  - Conservation Branch (9 files)
  - 5-1 Conservation Division, Monthly Reports
  - Conservation Division, Monthly Reports (90 files) filed loose
  - Conservation Division, Mining Branch (54 files) filed loose
  - 5-1 Geologic Division, Monthly Reports (8 files)
  - 5-1 Geologic Division, Monthly Reports of Commodity Committee
  - 5-1 Geologic Division, Weekly and Semi-monthly Lists
  - 5-1 Geologic Division, Bibliography on Atomic Energy
  - 5-1 Geologic Division, Monthly Reports on Publications
  - 5-1 Geologic Division
  - 5-1 Personnel, Monthly Reports on Employment (8 files)
  - 5-1 Personnel (4 files)
  - 5-1 Key Operating Items, Payrolls (6 files)
- 5 Publications:
  - 5-1 General

- 5-1 Map Reproduction
- 5-1 Annual Reports
- 5-1 Monthly Reports (4 files)
- 5-1 Manuscripts received from the Administrative Geologist
- 5-1 Manuscripts submitted to the Director
- 5 Topographic Division:
  - 5-1 Monthly Reports (6 files)
- 5 Water Resources:
  - 5-1 Monthly Reports (4 files)
- 6 Special Reports by Bureaus (2 files)
- 7 Outside Organizations (3 files)

#### REPRODUCTIONS

- 1 Authorizations, Policy (3 files)
- 2 Processes and Methods (2 files)
  - 2-1 Duplicating (Mimeograph) (5 files)
  - 2-2 Engraving (3 files)
  - 2-3 Printing and Binding (5 files)
  - 2-4 Lithographic (3 files)
  - 2-5 Photographic (5 files)
- 3 Quotas
- 4 Priorities (2 files)
- 5 Reprints (5 files)
- 6 Requests and Requisitions (5 files)

#### RESEARCH

- 1 General (5 files)

#### SECURITY

- 1 Buildings and Equipment, Protection (3 files)
  - 1-1 Permission to visit grounds and buildings
- 2 Communication and Records
  - 2-1 Classification, Downgrading, Declassification
  - 2-4 Filing and Storage
  - 2-5 Transmission and Receipt
  - 2-6 Use and Release of, Permission to Use
- 3 General Policy, Regulation and Procedures (2 files)
- 4 Information and Publications (2 files)
  - 4-2 Classification, Downgrading, Declassification (4 files)
  - 4-3 Use and Release of
- 5 Personnel - Security Office (2 files)
  - 5-1 Identification Cards
  - 5-2 Investigation and Clearance (5 files)
- 6 Reports and Data (3 files)

#### SEDIMENTATION AND EROSION

- 1 General

#### TOPOGRAPHIC SURVEYS

- General
- 1 Aerial Surveys, Policy (5 files)

- 2 Boundaries (5 files)
- 3 Coordination and Planning (2 files)
- 6 Field Completion Surveys (2 files)
- 7 Geodesy
  - 7-2 Elevation and Benchmarks (5 files)
  - 7-3 Levels (3 files)
  - 7-7 Triangulations
- 8 Requests for Surveys (5 files)

## TRANSPORTATION

- General
- 1 Freight and Expenses (4 files)
  - 1-1 Bills of Lading (3 files)
  - 1-2 Rates and Tariffs (5 files)
  - 1-3 Claims
  - 1-4 Personal Effects, Household (3 files)
- 2 Travel (5 files)
  - 2-1 Advance of Funds (5 files)
  - 2-2 Attendance at Meetings (3 files)
  - 2-2 Attendance at Meetings, A-Z, A-M, N-Z (5 files)
  - 2-3 Authorizations (4 files)
  - 2-5 Foreign (including Passports and Visas) (5 files)
  - 2-5 Foreign (including Passports and Visas), A-M, N-Z (4 files)
  - 2-5 Foreign (including Passports and Visas), A-F, G-M, N-Z (6 files)
  - 2-6 Itineraries and Reservations (5 files)
  - 2-6 Assistant Secretary Wormser's Trip to Alaska
  - 2-6 Secretary Seaton's Trip to Alaska
  - 2-6 Secretary Seaton's Trip to the Mid-West Area
  - 2-6 Under Secretary Chilson's Trip
  - 2-6 President's Tour of Drought Areas
  - 2-7 Policies and Regulations (5 files)
  - 2-8 Privately Owned Vehicles (3 files)
  - 2-9 Transportation Requests (5 files)
  - 2-10 Horses

## VEHICLES

- 1 *General:*
  - Assignment and Use, Policies (4 files)
  - Motor Pools (6 files)
  - files* (alphabetically by State or Territory (119 files)
  - 1-1 Storage, Salt Lake City
- 2 Accidents (5 files)
- 2 Accidents, except claims (6 files)
- 3 Credit Cards
- 4 Inspection
- 6 License Plates (2 files)
- 8 Maintenance, Repairs, Performance (4 files)
- 10 Permits to Operate, Operator's Test (4 files)
- 11 Procurement, Limitations (5 files)
- 12 Reports (5 files)

- 13 Surplus or Unserviceable
  - 13-2 Disposals (3 files)
- 14 Tires and Tubes

#### WATER, GENERAL

- 1 Hydraulics
  - 1 Hydraulics, Investigations (5 files)
  - 1 Canal III, Florida
    - 1-2 Field Projects
    - 1-3 Laboratory Projects
- 2 Hydrology (4 files)
  - 2-1 Drought (3 files)
  - 2-2 Evapo-Transpiration (5 files)
- 3 Irrigation and Reclamation
  - 3-1 Plans (2 files)
  - 3-2 Projects (2 files)
  - 3-3 Sites
- 4 Laws
  - 4-2 A Program for Reducing the National Flood Damage Potential
- Maps and Charts
- 5 Gaging Stations, Stream Flow
- 6 Phreatophtes Control (4 files)
- 8 Power (4 files)
  - 8-1 Projects (3 files)
  - 8-2 Sites
- 9 Supply (5 files)
  - 9-1 Agriculture
  - 9-2 Domestic (2 files)
  - 9-4 Industrial (2 files)
  - 9-6 Reports (3 files)
- 10 Utilization and Conservation (4 files)
  - 10-1 Consumption
  - 10-3 Observation, Key Wells
  - 10-5 Soil and Moisture Conservation (5 files)

#### WATER, GROUND

- 2 Basic Data Investigation (5 files)
- 2 Delmarva Peninsula Hydrologic Study
  - 2-1 Earthquake Fluctuation Data (2 files)
  - 2-2 Salt Water Encroachment (3 files)
  - 2-3 Spring Schedules (2 files)
  - 2-4 Water Levels, Tables (4 files)
- 4 Measurements (4 files)
  - 4-2 Methods (2 files)
- 5 Occurrence and Characteristic (3 files)
- 6 Reports (5 files)
- 7 Wells (5 files)
  - 7-1 Drilling Contracts (4 files)
  - 7-2 Drilling Specifications
  - 7-4 Observations, Core Depository (3 files)

- 9 Quality of Water, Florida
- 9-3 Results of Water Investigations, Libya

#### WATER, QUALITY

- General
- 1 Analysis (4 files)
- 2 Corrosion
- 3 Inventory
- 5 Mineral Waters
- 6 Pollution (5 files)
- 6 Acid-Mine Water Drainage Pollution Control
- 7 Radioactivity (4 files)
- 8 Reports (5 files)
- 10 Research
- 11 Treatment (2 files)
- 11-7 Sea Water (2 files)

#### WATER, SURFACE

- 1 Aerial Studies
- 2 Basic Data (4 files)
- 3 *Characteristics*
- 3-2 Stage Discharge Relations
- 4 Floods (5 files)
- 4 Pacific Northwest and California Floods, December 1964
- 4 Flood Study, Colorado
- 4-1 Control (5 files)
- 4-2 Damage (2 files)
- 4-3 Frequency (3 files)
- 5 Gaging Stations (4 files)
- 6 Laboratories (2 files)
- 7 Measurements (3 files)
- 7-1 Apparatus (2 files)
- 7-2 Indirect Determination
- 7-3 Special Methods
- 8 Reports (2 files)
- 8-2 Compilations - Restudy
- 8-5 Reports of and for other Agencies (4 files)
- 9 Reservoirs, Lakes, Dams
- 9-1 Sites
- 9-2 Surveys (2 files)
- 10 Rivers and Streams
- 10-1 Surveys (3 files)

#### WEATHER

- 1 General (4 files)
- 2 Rainfall (2 files)
- 2-2 Measurement
- 3 *Snow*
- 3-2 Measurement
- 4 Temperature
- 4-1 Air
- 5 Wind and Velocity

2nd Subseries (1968-74)

These files are dated 1968-74 unless otherwise noted.

ACCOUNTING

- 1 Accounts current
  - 1-1 Depositories
- 2 Allowances and expenses
  - 2-2 Per diem (2 files)
  - 2-3 Quarters (2 files)
- 3 Audits (2 files)
  - 3-1 Suspensions, disallowances, exceptions, claims, inquiries
- 5 Certifying Officers and Agent Cashiers (2 files)
- 6 Collections and receipts
  - 6-2 Checks, money orders, currency, and postage (2 files)
  - 6-4 Deposits
  - 6-9 Royalties
  - 6-10 Schedules
- 9 Disbursements
  - 9-3 Expenditures
- 12 Payrolls and salaries (2 files)
  - 12-2 Checks (salary only) (2 files)
- 13 Reports and statements
- 14 Systems of accounting
- 14 Page charges for outside publications
- 15 Transfers of funds (2 files)
- 17 Working funds, advance revolving fund (2 files)

BUDGET

- 1 Budget formulation, reports, drafts, legislation
  - 1-5 Annual estimates (2 files)
  - 1-6 Budget hearings (2 files)
  - 1-7 Supplemental data to Budget Bureau (2 files)
  - 1-8 Budget allowances
  - 1-9 Revision of estimates after allowances
  - 1-11 Congressional justifications
  - 1-12 House hearings and debates (2 files)
  - 1-14 Senate hearings and debates
  - 1-14 Senate Committee on Aeronautical and Space Sciences
  - 1-21 Supplemental and deficiency estimates (2 files)
- 2 *Budget Execution - Program Level*
  - 2-2 Financial plans
  - 2-3 Quarterly apportionments (2 files)
  - 2-4 Allotment advices of funds
  - 2-6 Limitations (2 files)
  - 2-9 Analyses of obligations (2 files)
- 4 *Budget Execution - Project Level*
  - 4-4 Allotment advices, field printing allocation
  - 4-7 Revolving fund

- 5 Regional, State and local programs and estimates (2 files)
  - 5-1 Field Committee regions, justifications (2 files)
  - 5-4 Federal, State (2 files)
  - 5-5 State and local programs, general
- 6 *Interagency Programs and Estimates*
  - 6-1 Miscellaneous agencies
  - 6-5 Bureaus and offices of Interior Department

#### BUILDINGS AND GROUNDS

- 1 General
  - 1-1 Leasing
- 2 Damage and protection (2 files)
  - 2-1 Fire (2 files)
  - 2-2 Guarding (2 files)
  - 2-3 Passes (2 files)
  - 2-4 Permission for use of grounds and establishments
- 3 Design and construction
  - 3-1 Plans, drawings, and specifications (2 files)
- 4 Directories, signs, bulletin service
- 5 Disposition
- 7 Maintenance and preservation (2 files)
- 8 Reports and data (2 files)
- 9 Space (2 files)
  - 9-1 Washington (2 files)
  - 9-2 Field (2 files)
  - 9-2 Alaska (2 files)
  - 9-2 Arizona
  - 9-2 Arkansas
  - 9-2 California (2 files)
  - 9-2 Colorado (2 files)
  - 9-2 Delaware
  - 9-2 Florida
  - 9-2 Georgia
  - 9-2 Iowa
  - 9-2 Kansas
  - 9-2 Kentucky
  - 9-2 Louisiana
  - 9-2 Maryland
  - 9-2 Massachusetts (2 files)
  - 9-2 Minnesota
  - 9-2 Missouri (2 files)
  - 9-2 North Dakota
  - 9-2 Ohio
  - 9-2 South Carolina
  - 9-2 South Dakota (2 files)
  - 9-2 Virginia (2 files)
  - 9-2 Washington (2 files)
  - 9-2 Wisconsin
  - 9-3 Parking (2 files)

10	Utilities and services (2 files)
	10-1 Heating, lighting, power (2 files)
COAL	
1	Anthracite
2	Bibliographies, reports, etc.
9	Exploration and development
11	Lands
COMMITTEES	
--	Commissions
--	Souris-Red-Rainy River Basins Commission
--	Compacts, General (2 files)
--	United States Study Commission
--	Rio Grande Compact Commission (2 files)
--	North Commission (2 files)
--	Klamath River Commission
--	Delaware River Basin Commission (2 files)
--	California-Nevada Interstate Compact Commission (2 files)
--	Arkansas River Compact Commission (2 files)
--	Upper Colorado River Commission
--	General
--	Geological Survey, General (2 files)
--	Advisors to the Director
--	Alaska Survey Committee ( 2 files)
--	Budget (2 files)
--	Civil Service Examiners, Board of
--	Computer liaison
--	Domestic geographic names
--	Electronic computer and electronic equipment (2 files)
--	Emergency planning changed to Emergency preparedness (2 files)
--	Equal employment opportunity (2 files)
--	Executive Committee (2 files)
--	Exhibits (2 files)
--	Foreign activities (2 files)
--	General Staff (2 files)
--	Geologic Mapping, Inter-division Committee on (2 files)
--	Geologic Names, Committee on (2 files)
--	Geologists Staffing Committee
--	Incentive Awards
--	Management Services (2 files)
--	New Building, Washington D. C.
--	Pacific Coast Survey (2 files)
--	Professional Staffing
--	Promotion Policy, Ad Hoc Committee on
--	Publications (2 files)
--	Rocky Mountain Survey (2 files)
--	Safety (2 files)
--	Training, Ad Hoc Committee on (2 files)
--	Wage Board (2 files)

- Interior Department, General (2 files)
  - Alaska, Field (2 files)
  - Field Committee Chairmen (2 files)
  - Interior Field Committee
  - Missouri River Basin (2 files)
  - North Central Field (2 files)
  - Northeast Field (2 files)
  - Outdoor Recreation (4 files)
  - Pacific Northwest Field (2 files)
  - Pacific Southwest Field (2 files)
  - Research and Development (2 files)
  - Southeast Field
  - Southwest Field (2 files)
  - Water Resources Research (2 files)
- Inter-agency, General (2 files)
  - AWPBIAC (2 files)
  - Geographic Names, Board of
  - Columbia Basin 1-A Committee
  - Delaware Basin Coordinating Committee
  - Hydrology, Sub-committee on, 1962-65, 1965-68 (3 files)
  - Marine Council Committee
  - Missouri River Basin (2 files)
  - Missouri River Basin Committee, Annual Report
  - National Atlas
  - National Academy of Sciences, National Research Council
  - Oceanography (2 files)
  - Pacific Southwest Field (3 files)
  - Pest Control, Federal Committee on (2 files)
  - Sub-committee on Sedimentation, 1962-65, 1965-68 (2 files)
  - Smithsonian Institution Advisory Committee on Department of Mineral Sciences
  - Southeast Basin (2 files)
  - Water Resources Council (2 files)
  - Water Resources, Committee on
- International, General (2 files)
  - International Activities Committee
  - U. S. - Mexico Committee for Border Development and Friendship
  - IUGS, Sub-commissions and National Committees (2 files)
- National, General (2 files)
  - Federal Executive Boards (2 files)
  - Marine Resources and Engineering Development (2 files)
  - Public Land Law Review Commission (3 files)
  - Science and Technology, Federal Council for (2 files)
  - Solid Earth Sciences (2 files)
  - Water Data, Federal Advisory (2 files)
  - Water Data for Public Use, Federal Advisory (2 files)
- Regional, General (2 files)
- State, General (2 files)

## COMMUNICATIONS

- 1 Mail and correspondence (2 files)
  - 1-1 Addresses (2 files)
  - 1-2 Postage (2 files)
  - 1-3 Postal laws and regulations
  - 1-4 Procedures (2 files)
- 2 Messenger Service (2 files)
- 3 *Public Address and Inter-Office Systems*
  - 3-1 Christmas greetings
- 4 Radio
- 5 Reports (2 files)
- 6 Telegrams, teletypes, and cablegrams (2 files)
- 7 Telephones (2 files)
  - 7-1 Installation and use (2 files)
  - 7-2 Lists and directories

## CONTRACTS

- General (2 files)
- Compliance
- General, A-M (2 files)
- General, N-Z (2 files)

## COOPERATION

- Educational Institutions, A-M (3 files)
- Educational Institutions, N-Z (2 files)
- Alaska, University of
- American University
- Arizona, University of
- Arkansas, University of
- California Institute of Technology (2 files)
- California, University of (2 files)
- Colorado School of Mines
- Denver, University of
- Edinburgh University
- Georgetown University
- Georgia Institute of Technology
- Hawaii, University of
- Indiana, University of
- Laval University
- Louisiana State University
- Massachusetts Institute of Technology
- Michigan, University of (2 files)
- Minnesota, University of
- Northwestern University
- Ohio State University
- Pennsylvania State University
- Rhode Island, University of
- Rutgers University
- South Dakota School of Mines and Technology
- Stanford Junior University
- Texas A & M University

-- Utah State University  
 -- Washington, University of  
 -- Wisconsin, University of

3 General (2 files)

-- Advanced Research Projects Agency (3 files)  
 -- Agency for International Development, A-M (2 files)  
 -- Agency for International Development, N-Z (2 files)  
 -- Afghanistan  
 -- Africa  
 -- Bolivia  
 -- Brazil  
 -- India  
 -- Indonesia  
 -- Jordan  
 -- Korea  
 -- Latin America  
 -- Pakistan  
 -- Philippines  
 -- South America  
 -- Viet Nam  
 -- Agriculture Department of (2 files)  
 -- Agriculture, Department of, Research Service (2 files)  
 -- Air Force (4 files)  
 -- Alaska Power Administration  
 -- Alaska Railroad  
 -- Army Map Service  
 -- Army, U. S. (4 files)  
 -- Army Topographic Command  
 -- Atomic Energy Commission (9 files)  
 -- Bonneville Power Administration (2 files)  
 -- Budget, Bureau of (2 files)  
 -- Census, Bureau of (2 files)  
 -- Civil Service Commission (2 files)  
 -- Coal Research, Office of (2 files)  
 -- Coast Guard, U. S. (2 files)  
 -- Commerce, Department of (2 files)  
 -- Defense Atomic Support Agency (2 files)  
 -- Defense, Department of (2 files)  
 -- Defense Intelligence Agency (2 files)  
 -- Defense Mobilization, Office of  
 -- Economic Development Administration  
 -- Economic Opportunity, Office of  
 -- Emergency Planning, Office of (2 files)  
 -- Emergency Preparedness  
 -- Environmental Protection Agency  
 -- Environmental Quality Control  
 -- Environmental Science Services Administration & Office of Aeronautical  
     Charting and Cartography (2 files)  
 -- Equal Opportunity, Office of  
 -- Executive Office of the President (2 files)  
 -- Federal Aviation Administration (2 files)

- Federal Civil Defense Administration
- Federal Housing Administration (2 files)
- Federal Power Commission (2 files)
- Federal Water Pollution Control Administration (2 files)
- Federal Water Quality Administration
- Fish and Wildlife Service (2 files)
- Forest Service (3 files)
- General Accounting Office (2 files)
- General Services Administration (2 files)
- Government Printing Office (2 files)
- Health, Education, and Welfare, Department of (2 files)
- Housing and Urban Development, Department of (2 files)
- Indian Affairs, Bureau of (2 files)
- Internal Revenue Service
- Justice, Department of (2 files)
- Labor, Department of (2 files)
- Land Management, Bureau of (6 files)
- Library of Congress (2 files)
- Management and Budget, Office of
- Marine Resources, Office of
- Minerals and Solid Fuels (2 files)
- Minerals Exploration, Office of
- Minerals Mobilization, Office of
- Mines, Bureau of (4 files)
- National Academy of Science (2 files)
- National Aeronautics and Space Administration (7 files)
- National Air Pollution Control Administration
- National Audiovisual Center
- National Capitol Planning Commission
- National Cultural Center
- National Museum (2 files)
- National Oceanographic and Atmospheric Administration
- National Oceanographic Data Center (2 files)
- National Park Service (4 files)
- National Research Council
- National Science Foundation (3 files)
- Navy, Department of (3 files)
- Oil and Gas, Office of (2 files)
- Outdoor Recreation, Bureau of (3 files)
- Peace Corps
- Post Office Department (2 files)
- Public Health Service (2 files)
- Public Roads, Bureau of (2 files)
- Reclamation, Bureau of (4 files)
- Saline Water, Office of (2 files)
- Science and Technology, Office of (2 files)
- Small Business Administration (2 files)
- Smithsonian Institution (2 files)
- Soil Conservation (2 files)
- Southeast Power Administration
- Standards, National Bureau of (2 files)

- State, Department of (4 files)
- Tennessee Valley Authority
- Territories, Office of
- Transportation, Department of
- Treasury, Department of
- Trust Territories of the Pacific
- Veterans Administration
- Water Resources Research, Office of (6 files)
- 3-1 United States Geological Survey: Divisions, Branches, Sections

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General (2 files)

- Alabama (2 files)
- Alaska (2 files)
- Arizona (2 files)
- Arkansas (2 files)
- California (5 files)
- Colorado (2 files)
- Connecticut (3 files)
- Delaware (2 files)
- District of Columbia (2 files)
- Florida (3 files)
- Georgia (2 files)
- Guam (2 files)
- Hawaii (2 files)
- Idaho (2 files)
- Illinois (2 files)
- Indiana (2 files)
- Iowa (2 files)
- Kansas (2 files)
- Kentucky (2 files)
- Louisiana (2 files)
- Maine (2 files)
- Maryland (2 files)
- Massachusetts (2 files)
- Mexico
- Michigan (2 files)
- Minnesota (2 files)
- Mississippi (2 files)
- Missouri (2 files)
- Montana (2 files)
- Nebraska (2 files)
- Nevada (2 files)
- New Hampshire (2 files)
- New Jersey (2 files)
- New Mexico (2 files)
- New York (2 files)
- North Carolina (2 files)
- North Dakota (2 files)
- Ohio (2 files)
- Oklahoma (2 files)
- Oregon (4 files)

- Pennsylvania (2 files)
- Puerto Rico (2 files)
- Rhode Island (2 files)
- Samoa
- South Carolina (2 files)
- South Dakota (2 files)
- Tennessee (2 files)
- Texas (2 files)
- Utah (2 files)
- Vermont (2 files)
- Virginia (2 files)
- Virgin Islands (2 files)
- Wake Island
- Washington (3 files)
- West Virginia (2 files)
- Wisconsin (2 files)
- Wyoming

#### EDUCATION

- 1 Fellowships, grants, scholarships (2 files)
- 2 Schools
- 3 Special training programs
  - 3-1 Foreign students, A-M (2 files)
  - 3-1 Foreign students, N-Z (2 files)

#### ENGINEERING GEOLOGY

- 1 *General Purpose Geologic Mapping*
  - 1-1 City and industrial areas
  - 1-3 Specific construction sites (2 files)
- 2 *Research*
  - 2-2 Landslides

#### EQUIPMENT AND SUPPLIES

- 2 *Distribution*
  - 2-1 Allocation, assignment, and rationing
- 3 Maintenance and preservation (2 files)
- 4 Procurement (2 files)
  - 4-1 Authorization (2 files)
  - 4-3 Catalogs, price lists, and schedules (2 files)
  - 4-8 Purchase orders (2 files)
  - 4-9 Rental of equipment (2 files)
  - 4-10 Requisitions (2 files)
  - 4-11 General
    - 4-11 Specifications, bids, contracts, A-M (2 files)
    - 4-11 Specifications, bids, contracts, N-Z
- 5 Property Accountability
  - 5-1 Inventories and identification
  - 5-2 Loans and exchanges (2 files)
  - 5-3 Loss and theft
- 7 Storage
- 8 Surplus, salvage and conservation (2 files)
  - 8-6 Transfers (2 files)

## FORMS

- 1 Management or control
  - 1-1 Design, standardization and revision

## GENERAL GEOLOGY

- 1 Bibliographies, references, abstracts (2 files)
- 6 Structural geology of areas
- 7 Surveys, investigations, explorations, reports (2 files)
- 7 National Wilderness (2 files)
- 7 OME, requests for funds for minerals exploration
- 7 OME, requests for funds for mineral exploration, A-M
- 7 OME, requests for funds for mineral exploration, N-Z
- 7 Primitive areas, A-M (2 files)
- 7 Primitive areas, N-Z (2 files)
- 7 Wildlife refuge areas
  - 7-1 Request for (2 files)
- 8 Terminology (2 files)
- 9 Vulcanology
  - 9-1 Volcanic gases

## GEOCHEMISTRY AND PETROLOGY

- 2 Basic data
- 8 *Minerals*
  - 8-2 Chemical analyses of
  - 8-3 Identification of
- 12 Rocks
  - 12-2 Chemical analyses (2 files)

## GEOPHYSICS

- 1 *Gravity*
  - 1-3 Gravity exploration
- 3 Seismology (2 files)
  - 3-1 Earthquakes (2 files)
  - 3-3 Seismic exploration (3 files)
- 6 Well logging

## INFORMATION

- 1 Abstracts, bibliographies
- 2 Directories (except telephone) (2 files)
- Topographic Division, Committee Directory
- 3 Distribution and sale of Geological Survey publications (2 files)
  - 3-1 Agents, commercial firms
  - 3-6 Government agency purchases, GPO (2 files)
  - 3-7 Mailing lists, A-M (2 files)
  - 3-7 Mailing lists, N-Z (2 files)
- 4 Exhibits, fairs, expositions, demonstrations (2 files)
- 4 "Powell Centennial"
- 5 Films, motion pictures, film strips, A-M (2 files)
- 5 Films, motion pictures, film strips, N-Z (2 files)
- 6 General policies "Soviet Block Countries," 1954-56

6	General policies
6-1	Permission to quote or use publications, A-M (2 files)
6-1	Permission to quote or use publications, N-Z (2 files)
6-1	Permission to use or quote publication, 1955-56 (3 files)
6-2	Inspection by public of Geological Survey field notes, maps
8	Libraries, depositories (2 files)
9	Manuscripts, editing, care of (2 files)
10	Photographs, still pictures, slides
10	Photographs, slides, A-M
10	Photographs, slides, N-Z
11	Press releases, radio releases (2 files)
12	Publications, Geological Survey, A-M (2 files)
12	Publications, Geological Survey, N-Z
12	Stock notices, list of (2 files)
12-1	Reports in preparation, revision list of (2 files)
12-2	Published reports (2 files)
12-2	National Atlas (2 files)
12-3	Unpublished reports, open file, A-M (2 files)
12-3	Unpublished reports, open file, N-Z (2 files)
12-4	Research and technical data, storage and retrieval
12-5	Non-technical data
13	Publications, outside approval of [1956]
13	Publications of outside organizations, A-F (2 files)
13	Publications of outside organizations, G-M (2 files)
13	Publications of outside organizations, N-Z (2 files)
13-1	Newspapers and clippings (2 files)
14	Radio and video broadcasts (2 files)
16	Requests for information, general, A-F (4 files)
16	Requests for information, general, G-M (4 files)
16	Requests for information, general, N-Z (5 files)
16	General, Chief Geographer (3 files)
--	Requests for information, general, Raymond C. Willey
16-1	Requests by Survey for information or publications, A-M (2 files)
16-1	Requests by Survey for information or publications, N-Z (2 files)
17	Lectures, Industrial College of the Armed Forces
17	Papers, A-M (2 files)
17	Papers, N-Z (2 files)
17	Speeches, lectures, statements, A-M (2 files)
17	Speeches, lectures, statements, N-Z (2 files)
17	Speeches, lectures, statements, William T. Pecora

#### INVENTIONS

--	General (2 files)
1	Patents, copyrights and trademarks, A-M (2 files)
1	Patents, copyrights and trademarks, N-Z (2 files)

#### LAND

--	General
1	Acquired
2	Classification, appraisal, determination, appeals, A-M (2 files)

- 2 Classification, appraisal, determination, appeals, N-Z (2 files)
- 3 Indian (2 files)
  - 3-1 Oil lands, leases of, nominations for, A-M (2 files)
  - 3-1 Oil lands, leases of, nominations for, N-Z (2 files)
  - Santa Barbara letters, insufficient addresses
  - 3-1 Santa Barbara Channel, February-April 1969
  - 3-1 Santa Barbara Channel, May-June 1969
  - 3-1 Santa Barbara Channel, July-August 1969
  - 3-1 Santa Barbara Channel, September-December 1969
  - 3-1 Santa Barbara Channel, January 1970
  - 3-1 Santa Barbara Channel, February-March 1970
  - 3-1 Santa Barbara Channel, March-April 1970
  - 3-1 Santa Barbara Channel, May-August 1970
  - 3-1 Santa Barbara Channel, September-December 1970
  - 3-1 Santa Barbara Channel, January-June 1971
  - 3-1 Santa Barbara Channel, July 1971- June 1974
  - 3-1 Gulf of Mexico, March-May 1970
  - 3-1 Gulf of Mexico, June 1970-June 1971
- 4 Use and conservation (2 files)
- 5 Withdrawals and restorations (2 files)

#### LEGAL

- General (2 files)
- 1 Claims, etc., involving Federal vehicles (2 files)
- 1 Claims, litigations, wills, gifts, hearings, A-M (2 files)
- 1 Claims, litigations, wills, gifts, hearings, N-Z (2 files)
- 2 Decisions, opinions and interpretations (2 files)
  - 2-3 Solicitor (2 files)
  - 2-4 Connally Act violations
- 3 Executive Orders
- 4 General, laws and regulations, drafts on (2 files)
  - 4-1 Code of Federal Regulations (2 files)
  - 4-2 Federal Register (2 files)
- 4a Acts (2 files)
- 4b Public Laws (2 files)
- 4c Regulations (2 files)
- 4c Outer Continental Shelf Regulations
- 4c Outer Continental Shelf Regulations, Enclosures 1 & 2
- 4c Outer Continental Shelf Regulations, Enclosure 3
- 4c Outer Continental Shelf Regulations, Enclosures 4 & 5
- 4c Outer Continental Shelf Regulations, Enclosure 6
- 5 General, legislation (2 files)
- 5a Programs (2 files)
- 5b Reports regarding proposed bills (2 files)
- 5c Congressional Record
  - 5-1 General
  - 5-1 House Resolutions
  - 5-1 House Joint Resolutions (2 files)
  - 5-1(A) House of Representatives (2 files)
  - 5-1 Senate and House of Representatives (3 files)
  - 5-1 Senate Joint Resolutions (2 files)

	5-1(A)	Senate (2 files)
	--	S.10 to S.4482 (2 files)
	--	Senate bills, S.10 - S.3973
	--	House bills, H.R. 68 - H.R. 19703
	--	House bills, H.R. 9 - H. R. 12888
	5-2	State and territorial
6	Notaries	

#### MAP DISTRIBUTION

--	General	
3	Official use	
4	Other agency maps (2 files)	
5	Sales (2 files)	
	5-1	Individual maps

#### MAP PRODUCTION

1	Capabilities	
5	<i>Performance</i>	
	5-1	Cost analyses
8	<i>Schedules</i>	
	8-1	Mapping, preliminary map program, Topographic Quarterly, progress
	8-2	Reproduction, revision (2 files)

#### MAPPING TECHNIQUES

1	Accuracy, corrections (2 files)	
	1-1	Datum, special notes, basic data
5	Compilation, cartographic	
	5-3	State maps
9	Editing and checking, scribing, manuscripts	
11	<i>Features</i>	
	11-1	Cultural
	11-3	Hypsographic
12	Names (2 files)	
	12-1	Geographic names (2 files)
13	Photography	
	13-1	Availability and procurement (2 files)
15	Projections and grids	
16	<i>Research and Development</i>	
	16-1	Design

#### MEETINGS

1	Engagements, invitations, and visits, A-M (2 files)	
1	Engagements, invitations, and visits, N-Z (2 files)	
1	Frank E. Clarke	
1	Vincent E. McKelvey	
1	Ralph L. Miller	
1	William T. Pecora	
2	Interior Department (3 files)	
	2-1	Geological Survey (2 files)
3	Interagency (2 files)	
3	Industrial College of the Armed Forces	

3	Inter-agency Advisory Group (2 files)
4	International (4 files)
4	Economic Commission for Asia and the Far East
4	Geological Map of the World, Commission for (2 files)
4	International Geographical Congress
4	International Geological Congress (2 files)
4	International Geographical Union (2 files)
4	IUGS
4	Pan American Institute of Geography and History (2 files)
4	World Petroleum Congress (2 files)
4	U. S. - Japan natural resources development (2 files)
5	National associations (4 files)
5	National [American] Association for the Advancement of Science (2 files)
5	American Association of Petroleum Geologists (2 files)
5	American Association of State Geologists (2 files)
5	American Congress on Surveying and Mapping; American Society of Photogrammetry (3 files)
5	American Geological Institute
5	American Geophysical Union (2 files)
5	American Institute of Mining, Metallurgical and Petroleum Engineers (2 files)
5	American Mining Congress (2 files)
5	American Society of Photography (2 files)
5	Geological Society of America (2 files)
6	State associations, city regional (2 files)
6	Alaska, all organizations (2 files)
6	Arctic Institute
6	Coastal States Conference on Ocean Mining Law
6	Mineral Resources of the World Ocean
6	Newport Symposium
6	Offshore Technology Conference (2 files)
6	Rocky Mountain Oil and Gas Association (2 files)
6	Woods Hole Oceanographic Institution
6	Wyoming Association of Petroleum Landmen

#### MINES AND MINING

5	Placer claims, Lode claims
7	Operations
	7-4 Stripping, overburden
8	<i>Safety and Accidents</i>
	8-9 Orders and regulations

#### NATIONAL DEFENSE

--	General
1	Liaison

#### OIL AND GAS

1	Accumulation (2 files)
3	Exploration and development
	3-1 Rates
5	Drilling operations
5	Reports on Continental Shelf
	5-1 Deep drilling

6	Exploration and development contracts (2 files)
9	Oil companies, utilization (2 files)
12	General
	12-1 Crude oil
	12-2 Gasoline
	12-3 Natural gas (2 files)
13	Production, estimates (3 files)
15	Reserves
	15-2 Naval petroleum reserves (2 files)
18	Storage
	18-1 Underground
20	Transportation

#### OIL SHALE

--	General
3	Exploration and development (2 files)
4	Lands

#### ORGANIZATION AND MANAGEMENT

1	Administrative issuances (2 files)
	1-2 Administrative Digests (2 files)
	1-3 Administrative Service Letters (2 files)
	1-4 Budget Bulletins (2 files)
	1-5 Budget Circulars (3 files)
	1-6 Budget and Finance Letters
	1-6a Budget and Finance Letters, Supplements
	1-7 Handbooks
	1-8 Fiscal Management Memorandum
	1-10 Management Highlights (2 files)
	1-11 Manuals
	1-12 Departmental Manual (2 files)
	1-13 Survey Manual (2 files)
	1-13b Administrative Division (2 files)
	1-13d Geologic Division
	1-13e Publications
	1-13f Topographic Division
	1-13g Water Resources Division (2 files)
	1-14 Personnel Management Letters (2 files)
	1-14a Procurement and Supply Letters
	1-15 Secretary's Orders
2	Establishment, Reorganization and Liquidation (2 files)
	2-1 Decentralization or dispersal of activities (2 files)
	2-2 Functions and delegations
	2-3 Interior Department (2 files)
	2-4 National Center for Earthquake Research
	2-4 Water Quality Standards, States (3 files)
	2-4 Mapping Activities (2 files)
	2-4 Office of the Director (2 files)
	2-4 Administrative Division (2 files)
	-- National Technical Programs Task Force
	-- National Technical Projects Task Force

- Branch of Management Analysis, MDS Reports 3 &4, Summary of major changes during the 1960's concerning employees
- 2-4 Computer Center Division (4 files)
- Branch of Connally Act Compliance
- 2-4 Conservation Division (2 files)
- Electronic Computer Material, Mr. Wayland
- 2-4 Geologic Division (2 files)
- 2-4 Publications Division (2 files)
- 2-4 Topographic Division (2 files)
- 2-4 Water Resources Division (2 files)
- 2-5 Outside agencies
- 2-5 Outside organizations
- 3 Management Improvement Program
- 3-2 Surveys and studies (2 files)
- 5 Field Offices and Personnel (2 files)

#### PALEONTOLOGY AND STRATIGRAPHY

- 2 Fossil determinations
- 5 Specimens
- 5-6 Specimens to be sent to the National Museum (2 files)

#### PERSONNEL

- 1 Appointment procedures (2 files)
  - 1-1 Consultants (2 files)
- 3 Classification, duties and salaries (2 files)
  - 3-2 Classification Act, position
  - 3-3 Civil Service Commission, post audits
  - 3-4 Job description (new position, position review) (2 files)
  - 3-5 Schedule A or excepted position - high level, super (2 files)
  - 3-5 Postdoctoral Research Program, NAS-NRC (2 files)
  - 3-6 Wage rates and ungraded positions, WEA, seasonal (2 files)
- 4 Conduct (2 files)
  - 4-1 Commendation letters for Presidential consideration
  - 4-1 Commendations (2 files)
  - 4-2 Complaints, charges debts (2 files)
- 5 Court attendance, jury duty, testimony, A-M (2 files)
- 5 Court attendance, jury duty, testimony, N-Z (2 files)
- 6 Delegation of authority, A-M (2 files)
- 6 Delegation of authority, N-Z (2 files)
- 7 River Master
- 7 Details or assignments of employees, A-M (2 files)
- 7 Details or assignments of employees, N-Z (2 files)
  - 7-1 Foreign, A-M (2 files)
  - 7-1 Foreign, N-Z (2 files)
  - 7-2 Reimbursable details (2 files)
  - 7-3 Rotation
- 8 Displacement, reassignment, abolishment of position (2 files)
- 9 *Personnel*
  - 9-1 Awards and citations (2 files)
  - 9-1 Employee suggestions
  - 9-1 Superior performance awards

9-1	Transmittals, Incentive Awards Committee
9-1	Quality increases, A-M
9-1	Quality increases, N-Z
9-1	20 years Service Award
9-1	30 years Service Award, A-Z
9-1	30 years Service Award, A-M
9-1	30 years Service Award, N-Z
9-1	More than 30 years service
9-2	Blood Donors (2 files)
9-3	Clubs and societies, IDRA (2 files)
9-4	Contributions, solicitation of funds (2 files)
9-5	Counseling
9-8	Employee services and addresses, biographical data (2 files)
9-9	Grievances, thefts, losses
9-10	Outside work of employees, A-M (2 files)
9-10	Outside work of employees, N-Z (2 files)
9-11	Political activities, lobbying, voting (2 files)
9-12	Recreation, welfare and education (2 files)
9-13	Unions, credit unions
10	Hours of duty (2 files)
12	Inspection reports (2 files)
--	Inspections in the Geological Survey, 1955
	12-1 Civil Service Commission (3 files)
13	Laws and regulations
	13-4 Policy and procedures (2 files)
14	Leave and holidays, A-M (2 files)
14	Leave and holidays, N-Z (2 files)
15	Military service
	15-1 Deferment (2 files)
	15-3 Preference, reemployment rights
	15-4 Reserve activities
16	Performance ratings (2 files)
	16-1 Appeals
	16-3 Reports
17	Personnel ceilings (2 files)
	17-1 Personnel folders (2 files)
18	Promotions and demotions, A-M (2 files)
18	Promotions and demotions, N-Z (2 files)
19	Records and reports (2 files)
	19-2 Employment
20	Recruitment, staffing patterns, rosters (2 files)
	20-1 Applications, A-M (2 files)
	20-1 Applications, N-Z (2 files)
	20-6 Mobilization and utilization of personnel
	20-9 Vacancy lists (2 files)
	20-10 Waiver of foreign residence requirements, aliens (2 files)
21	Retirement and Social Security
22	Safety, reports on (2 files)
	22-1 Accidents, general
	22-1 Accidents, A-M (2 files)
	22-1 Accidents, N-Z

	22-2	First Aid and treatment (2 files)
24	<i>Separations</i>	
	24-2	Reduction in force (2 files)
	24-3	Removal for cause, death (2 files)
	24-4	Resignations (2 files)
	24-5	Retirement, former employees (2 files)
25	Training, general	
25	Training, A-M (2 files)	
25	Training, N-Z (2 files)	
	25-4	Employee training in a non-government facility (2 files)
26	Transfers, Federal (2 files)	
	26-1	Transfers, to outside agencies
27	Registers, eligibles on	

#### PROGRAMS AND PLANS

	1-1	Projects justifications (2 files)
	1-1	"Appalachia" (2 files)
	1-1	"Broncho Project"
	1-1	"Natural Beauty"
	1-1	"Potomac River Basin"
	1-1	"Colorado River, Upper and Lower"
	1-1	"Heavy Metals Program"
	1-1	"International Hydrological Decade" (2 files)
	1-1	"Water for Peace"
	1-2	States (2 files)
	1-2	San Francisco Bay Urban Pilot Project
	1-2	Urban Pilot Program Areas (2 files)
2	Authorizations	
3	Foreign (2 files)	
4	Long Range	
4	Water Resources Basic Data Program	
6	<i>Priorities</i>	
	6-2	Federal agencies, through Bureau of the Budget
	6-3	Field committees
7	Short range, 6 year	
8	Special programs, general (2 files)	
8	Alyeska Pipeline Service Company	
8	Antarctica (2 files)	
8	ARGO	
8	EROS job applications	
8	Earth Resources Observation Satellite (15 files)	
8	Energy (2 files)	
8	Estuarine research	
8	Everglades	
8	Federal assistance programs and projects	
8	Federal Assistance Review Program, Administration	
8	Florida Barge Canal	
8	Johnnie Horizon	
8	Nature - RALI (2 files)	
8	Oceanography	
8	Rio Blanco	

8 Rulison  
 8 Rutile Development Program  
 8 Seabed study  
 8 Southwest energy  
 8 Tektite  
 8 Western U. S. Water Plan Study (2 files)

#### PUBLIC RELATIONS

1 Commendations, congratulations and greetings, A-M (2 files)  
 1 Commendations, congratulations and greetings, N-Z (2 files)  
 2 Criticisms and complaints, A-M (2 files)  
 2 Criticisms and complaints, N-Z (2 files)  
 2 Urban mapping complaints  
 3 Petitions and resolutions (2 files)  
 4 Introductions, recommendations (2 files)  
 5 Representatives and visitors, A-M (2 files)  
 5 Representatives and visitors, N-Z (2 files)  
 7 Sympathy, condolence (2 files)  
 8 Geological Survey personnel serving on committees, boards, outside (2 files)  
 9 Service and communication with the public (2 files)

#### RECORDS

-- Memorandums for, A-M  
 -- Memorandums for, N-Z  
 1 Anonymous and crank letters  
 2 Certified or authenticated copies, A-M (2 files)  
 2 Certified or authenticated copies, N-Z (2 files)  
 3 Disposition (2 files)  
     3-3 Reports  
 5 *Management*  
     5-1 Surveys  
 7 Personnel  
 8 Requests from the National Archives  
 9 Inspection of documents

#### REPORTS AND STATISTICS

1 Management and Control  
 -- Office of Emergency Planning, Stockpile Reports  
 -- Stockpile Reports to Congress  
 1-1 Congressional Committees, reports to (2 files)  
 1-1 Armed Services Committee, Special subcommittee of the House of  
     Representatives  
 1-1 Foreign Operations and Government Information, House, Subcommittee  
     (2 files)  
 1-1 Atomic Energy, Joint Committee on  
 1-1 Government Operations, House committee on, "Dawson Committee" (2 files)  
 1-1 Government Operations, House committee on, "Jones Committee"  
 1-1 House Appropriations Committee (2 files)  
 1-1 Mineral and Water Resources Reports, States (2 files)  
 1-1 Interior and Insular Affairs, House of Representatives (2 files)  
 1-1 Space and Aeronautics, House committee on (2 files)

	1-1	Aeronautical and Space Science, Senate Committee (2 files)
	1-1	Senate Appropriations Committee (2 files)
	1-1	Government Operations, Senate Committee (2 files)
	1-1	Senate Interior and Insular Affairs Committee (2 files)
	1-1	Surveys and Investigations
	1-1	Senate Service Committee
	1-1	Senate Committee on the Judiciary
	1-1	Senate Committee on Printing
	1-1	Joint Committee on Printing
	1-1	Joint Committee on Defense Production
2		Secretary's Office (32 files)
2		Secretary's Reading File (2 files)
2		Science Advisor (5 files)
2		Annual Reports
2		Monthly reports (2 files)
2		Camp Breckenridge, Kentucky (2 files)
2		Lyndon B. Johnson Library material (2 files)
2		Bodega Head (2 files)
2		AEC requests for comments (4 files)
2		Reports on travel outlay (2 files)
2		User charges (2 files)
2		Weekly reports (2 files)
	2-1	Division of Budget and Finance (3 files)
	2-1	Budget, Office of (6 files)
	2-1	Budget Status, reports on
	2-1	Commercial industrial activities (2 files)
	2-1	Cost reduction and manpower conservation (2 files)
	2-1	Public works program
	2-1	Research and development (4 files)
	2-2	Office of Management Operations (4 files)
	2-4	Division of Information (2 files)
	2-6	Division of Management Research (5 files)
	2-8	Office of Minerals and Solid Fuels (2 files & 1 booklet)
	2-9	Office of Oil and Gas (2 files)
	2-10	Director of Personnel (2 files)
	2-10	Personnel Management, Office of (2 files)
	2-13	Solicitor's Office (2 files)
	2-13	Solicitor's Office, legislation
	2-14	Resource Program Staff
	2-14	Program Support Staff
	2-15	Branch of Library Services (2 files)
	2-16	Office of Survey and Review (6 files)
	2-17	Office of Water Resources Research
4		Project Review Coordination
	4-1	GS comments, general (2 files)
	4-1	Corps of Engineers, A-M (2 files)
	4-1	Corps of Engineers, N-Z (2 files)
	4-1	Corps of Engineers, public notices
	4-1	Corps of Engineers, notices and public hearings and review reports
	4-1	Corps of Engineers, notices and public hearings and review reports, A-M (2 files)

- 4-1 Corps of Engineers, notices and public hearings and review reports, N-Z
- 4-1 Bureau of Land Management (2 files)
- 4-1 Bureau of Reclamation (2 files)
- 4-2 FPC project numbers (2 files)
- FPC projects, filed by assigned number, 78 to 2639
- 4-3 Work plans, watersheds (2 files)
- 4-3 Work plans, watersheds, A-M (2 files)
- 4-3 Work plans, watersheds, N-Z (2 files)
- 4-3 Margaret Creek Watershed Area, Ohio
- 4-3 Escondido Creek Watershed, Texas
- 5 Internal audits, General (2 files)
- 5 Internal audits, Administrative Division (2 files)
- 5 Internal audits, Computer Center Division
- 5 Internal audits, Conservation Division (2 files)
- 5 Internal audits, Geologic Division (2 files)
- 5 Internal audits, Office of Minerals Exploration
- 5 Internal audits, Publications Division
- 5 Internal audits, Topographic Division
- 5 Internal audits, Water Resources Division (2 files)
- Staffing patterns (5 files)
- 5 Public Inquiries Office
  - Divisions, general
  - 5-1 Director's Office (2 files)
  - 5-1 Branch of Computation
  - 5-1 Key Operating items, supply and service
  - Conservation Division reports to the Director, for the period July 1965 to September 1966
  - 5-1 Administrative Division
  - 5-1 Conservation Division (2 files)
  - Key Operating items, payroll (2 files)
  - Personnel (2 files)
  - 5-1 Geologic Division (6 files)
  - 5-1 Publications Division, monthly reports (3 files)
  - 5-1 Publications Division (2 files)
  - 5-1 Publications, manuscripts submitted to the Director (6 files)
  - 5-1 Topographic Division (2 files)
  - 5-1 Water Resources Division (5 files)
  - Publication - "Reclamation Era: A Water Review Quarterly"
  - 5-1 Outside organization (4 files)
- 6 Special reports by bureaus
- 7 Illinois Geological Survey (2 files)
- 7 Outside organizations

#### REPRODUCTION

- 1 Authorizations and policy, 1956
- 1 Authorization, policy
- 2 Processes and methods
  - 2-1 Duplicating
  - 2-3 Printing and binding
  - 2-4 Lithographic
  - 2-5 Photographic enlargement, prices of (2 files)

4	Priorities
6	Requests and requisitions (2 files)
RESEARCH	
--	General
SECURITY	
1	Buildings and equipment, protection (2 files)
4	<i>Information and Publications</i>
	4-2 Classification, downgrading, declassification
5	Personnel (2 files)
	5-2 Investigation and clearance
TOPOGRAPHIC SURVEYS	
1	Aerial surveys, policy
2	Boundaries, geographic centers, location of (2 files)
7	<i>Geodesy</i>
	7-2 Elevations and bench marks, geodetic control surveys (2 files)
	7-3 Levels
8	Requests for surveys (2 files)
TRANSPORTATION	
2	Travel (2 files)
	2-2 Attendance at meetings (2 files)
	2-3 Authorizations - ExPost Facto - requests for approval (2 files)
	2-5 General, foreign (4 files)
	2-5 General, foreign, Canada (3 files)
	2-5 General, foreign, A-F (5 files)
	2-5 General, foreign, G-M (5 files)
	2-5 General, foreign, N-Z (6 files)
	2-5 General, foreign, Mexico
	2-6 Itineraries and reservations (2 files)
	2-7 Policies and regulations (2 files)
	2-8 Privately owned vehicles
	2-9 Transportation requests
VEHICLES	
1	Assignment and use (2 files)
1	Motor pools, general (2 files)
1	Motor pools, West Virginia
4	Inspection
6	License plates
8	Maintenance and repairs
11	Procurement limitation re: specifications
12	Reports
13	<i>Surplus or Unserviceable</i>
	13-1 Disposal
WATER, GENERAL	
1	Hydraulics, investigations (2 files)

2	Hydrology	
	2-1	Droughts
3	<i>Irrigation and Reclamation</i>	
	3-1	Plans
9	Supply (2 files)	
10	Utilization and conservation	
	10-1	Soil and moisture conservation, water
	10-4	Observation, levels
	10-5	Soil and moisture conservation
WATER, GROUND		
2	Basic data, investigations, projects, laws (2 files)	
4	Measurements	
	4-1	Instrumentation
7	Wells	
	7-1	Drilling contracts, test drilling
WATER, QUALITY		
1	Analyses	
2	Corrosion	
6	Pollution (2 files)	
8	Reports, study, investigation, storage projects (2 files)	
9	Requirements	
WATER, SURFACE		
4	Floods, information on disasters (2 files)	
	4-1	Control (2 files)
	4-2	Damage
5	Gaging stations, stream flow (2 files)	
7	Measurement	
8	Reports	
WEATHER		
2	<i>Rainfall</i>	
	2-2	Measurement
4	Temperature	
	4-1	Air

## Appendix 5

Staff Geologist for Territories and Island Possessions - Records of John Calvin Reed (Sr.), 1946-53 (entry 60)

1.0	Office of the Staff Geologist, 1946-50
1.1	John C. Reed, 1946-50
2	Geological Survey, Legislative and Policy Items, 1946-51
2.0	Director, Assistant Director, 1946-52
2.1	Correspondence with Offices under the Director's Office, 1946-52
2.2	Geologic Division File, 1946-52
2.20	Alaskan Geology Branch Correspondence, 1945-52
2.201	R. F. Fellows, 1946-50
2.201	Correspondence with Alaska Section employees, 1948-51
2.203	Alaska Terrain-Permafrost Program, 1943-52
2.205	Alaska Volcano Investigation (General Geology Branch), 1946-53
2.206	Alaska Metals, 1946-53
2.207	Alaska Nonmetals Program, 1946-52
2.207	Alaska Cement Program, 1947-51
2.208	Alaskan Coal (Investigations and Industry), 1946-52
2.209	Alaska Trace Elements, 1946-53
2.3	Topographic Division, 1948-51
2.31	Topography - Alaska, 1946-52
2.41	Water Resources Program - Alaska, 1946-52
2.51	Conservation Division in Alaska, 1946-53
---	Preliminary Report on Water-Power Resources of Little Susitna River and Cottonwood Creek, Alaska, by Fred F. Lawrence, March 1949
---	Water Utilization - Ship Creek, near Anchorage, Alaska, by Jesse L. Colbert, May 1951
-	Preliminary Report on Water Power Resources of Power Creek near Cordova, Alaska, by Arthur Johnson, March 1949
---	Preliminary Report on the Geology along the Route of a proposed tunnel to develop hydroelectric power from Eklutna Lake, Alaska, by F. F. Barnes, n.d.
4.4	President's Scientific Research Board, 1947
5.0	Correspondence with Reginald Price, 1949-50
5.004	Ivan Bloch, 1946-51
5.005	Departmental Committee on Arid and Semi-Arid Regions, 1949-50
5.006	Interdepartmental Petroleum Committee, 1950-51
5.03	Division of Power, 1946-47
5.05	Bureau of Land Management, 1946-52
5.06	Board on Geographic Names, 1950-52
5.1	Bureau of Reclamation, 1946-52
5.2	Bureau of Mines, 1946-52
5.30	Alaska Railroad, 1946-53
5.32	Alaska Road Commission, 1947-52
5.6	National Park Service, 1948-52
6.1	Department of the Army, 1946-52
6.2	Agriculture Department, 1946-52
6.3	Correspondence with the Navy, 1947-52
6.34	Arctic Health Institute Proposal, 1948-50
7.0	Alaska Development Board, 1946-52

7.1 Territorial Department of Mines, 1947-52  
 10.00 Geological Survey - Alaska - Office Space, 1947-52  
 10.00 Survey - Alaska - Equipment, 1949-52  
 10.00 Cooperative Work - Geological Survey in Alaska, 1950-51  
 10.00 Alaska Service, Supply Branch, 1950-53  
 10.0 Report on Field Activities of the Geological Survey in Alaska, 1947 season  
 10.0 Plans and Reports on field activities for the 1947 & 1948 seasons, 1947-48  
 10.0 Alaska, Miscellaneous, 1947-50  
 --- Alaska Development Program, 1947-48  
 --- 5-year Program of Service Expansion in Alaska, 1947-48  
 10.01 Technical Subcommittee on Minerals, 1948-49  
 --- Interagency Committee on the Development of Alaska (including Subcommittees and Technical  
 Committees, 1947-48 (2 files)  
 10.4 Survey Activities - Puerto Rico, 1947-51  
 10.5 Survey Activities - Virgin Islands, 1946-49  
 10.5 Survey Activities - Guam [missing]  
 10.5 Survey Activities - Hawaii, 1948-52  
 10.5 Survey Activities - Trust Territories, 1950-52  
 12.0 Correspondence with E. L. "Bob" Bartlett (Delegate from Alaska), 1946-52  
 12 Congressional Correspondence, 1946-52  
 12.01 *Washington News Letter* from Office of E. L. "Bob" Bartlett, Delegate in Congress from Alaska,  
 1952-53  
 --- Third Report of the Committee on Group Settlement in Alaska, 1949

## Appendix 6

### Division of Engraving and Printing - General Correspondence Files, 1941-49 (entry 132)

1 Maps, 1941-48  
1 M Maps (Multi-color), 1941-48  
1 P Maps (Planimetric), 1948  
1 PR Maps (Post Route), 1948  
1 PR Maps (Puerto Rico), 1947-48  
1 R Maps (Relief), 1944-46, 1948-49  
1 T Maps (Topographic Map Instructions), 1941  
1 WD Maps (War Department), 1941-43  
1 W Maps (Atlas Sheets) (Waterlining), 1941  
2 Sheets, 1941-48  
2A Sheets (Alaska), 1938, 1941  
4 Priorities for work in hand, 1948  
5 Negatives, 1947-48  
22 Scales, 1944-47  
23 W Machines (Waxing), 1944-46  
56 B Processes (Buscher), 1944  
57 Index Map of the World (1:1,000,000 scale), 1940-43  
57 Millionth Scale Maps, 1945-48  
58 Outside Work, 1944-48  
58 PO Outside Work (Post Office Department), 1941-43  
58 S Outside Work (State), 1941-43  
58 Outside Work (Topography) (Target and Approach Charts), 1942-43  
58 TVA Outside Work (Tennessee Valley Authority), 1940-43  
58 T Outside Work (Transportation Maps), 1941-43  
59 Filing System, 1947  
60 Committee on Supplies, 1943  
61 Complaints, 1941-46  
73 Stones and Preparation, 1940-45  
75 Correspondence, 1947-48  
81 Explosion, 1945  
88 MR Committees (Map Reproduction), 1943  
88 PS Committees (Photographic Supplies), 1943  
102 Index Circulars and Maps, 1945-46  
107 Blanks, 1942, 1944  
112 Plants (Map Reproduction), 1947-48  
114 Reports, 1944-48  
114 A Reports (Annual), 1941-47  
114 BR Budget Reports, 1940-41  
114 P Reports (Progress), 1946-47  
114 SMP Reports (Saving Manpower Program - in Government Agencies), 1942-43  
114 R Reports (Tyding's #1 and #2), 1942-43  
145 Wooded Areas, 1943  
146 Repairs, 1941-43  
151 Engraving, 1941-46  
152 Patents, 1911, 1942

156 Photographs (Miscellaneous), 1948  
 156 A Photographs (Aerial), 1941  
 163 Retirement, 1947-48  
 171 Photographic Laboratory, 1944  
 172 Lantern Slides, 1941-42  
 183 Organization and Reorganization, 1945, 1947  
 193 Blueprints, Photostats, 1945, 1948  
 193 B Blueprint emulsion for use on Lofrite, 1948  
 222 Space, 1941-45, 1948  
 222 GS Space (Proposed new Geological Survey Building), 1944-45  
 232 Editing, 1944, 1947  
 233 Bouquets and Lemons, 1944-48  
 242 Transfer of Employees of Division of Map Reproduction, 1948  
 248 Status of Mapping, 1946  
 --- Pittsburgh Topographic Project, 1940  
 257 Text, 1945-46  
 259 Cloths (Map Mounting Sheeting), 1946  
 264 Inventions, 1945, 1947  
 265 PR Press Room, 1941, 1945  
 266 Division of Map Reproduction (Including designation of Acting Chiefs), 1944-47  
 275 Pictures, 1941-42  
 279 War Work (War Program), 1942, 1944  
 298 Rooms and Room Numbers, 1946  
 332 Time Reports, 1941-42  
 337 Fires, 1944-45, 1948  
 362 E Exhibits, 1945  
 379 Catalogs, 1948  
 380 Catalog (Map) - Consideration of, 1948  
 392 Personnel, 1941-43, 1947-48  
 396 Awards (Nomination for), 1948  
 403 Float Lettering Process, 1941, 1943  
 408 Liaison Officers - designation of, 1948  
 436 Map Reproduction, 1946-49  
 438 Training of Employees, 1946-48  
 471 Metal Mounts, 1946, 1948  
 473 Offset Lithography Methods, 1941  
 477 Air Raids, 1941-43  
 479 Accidents, 1947  
 482 Memoirs, 1941  
 485 Amalgamated National Lithographers of U. S., 1942-43, 1945-48  
 500 Manpower - For operating Engraving and Printing Division, 1942, 1945-48  
 509 Post War Program, 1943  
 511 Foreman's Duties, 1943  
 514 Sheet Estimates (Topographic Maps), 1943  
 518 Wage Board, 1943-46, 1948  
 521 Staff Meeting (Engraving and Printing Division), 1944

## Appendix 7

Geologic Division, Arnold Hague Papers - Working Papers and Reference Material, ca. 1883-1915, 1929  
(entry 146)

- Suggestions for the preparation of manuscripts and illustrations, 1890-91; Rules for classification and nomenclature, Geologic Atlas of the United States, 1902-3
- 11. List of and notes concerning rock specimens collected in the Absaroka Range, Gallatin Range, Mount Everts, and in Yellowstone Park
- 12. Manuscript material on the Yellowstone Park area
- 13. Table of contents and outline of proposed chapters, Monograph XXXII, part I
- 17. Notes on Yellowstone National Park, 1915
- Manuscripts written by Joseph P. Iddings on Yellowstone National Park with attached notes regarding publication of a portion of the manuscript in Monograph XXXII, Part II; letter from Dr. Whitman Cross, July 1929, regarding the manuscripts
- 20. Illustration for Monograph XXXII (6 envelopes marked b, c, d, e, f, and g)
- 21. Manuscripts and Illustrations for Chapters 1 to 15, Monograph XXXII, Part 1 (31 envelopes)
- 22. Manuscripts on "Excelsior Geyser Basin"; and "Firehole Geyser Basin,"
- 23. Manuscripts on "The Geyser Basins," and the "Upper Geyser Basin"
- Manuscripts on "Thermal Springs and Geysers Yellowstone National Park - Geographical Distribution and Geological Occurrence"; and "Thermal Springs and Geysers, Yellowstone Park Plateau"
- 36. Notes on the algae of Yellowstone National Park by William Albert Satchell
- 37. Abstracts made by Hague from Satchell's manuscript [see 36]
- 38. Colored plate reproductions for use as illustrations for Geyser chapters
- 39. Notes on observations made in Yellowstone National Park. 1885
- 40. Manuscript on "The Gases of Thermal Waters," accompanied by a report by Francis C. Phillips to Hague, January 26, 1888
- 41. Correspondence and report regarding gas analysis by Francis C. Phillips
- 42. Notes on origins of park names [Yellowstone]
- 43. "The Hot Springs of Iceland" by Thorkell Thorkelsson, 1910
- 44. A treatise on "the question whether the boiling thermal springs carry vadose or juvenile water" (filed with item #43 above)
- 45. Notes on Huckleberry Mountain and Big Game Ridge
- 46. Notes on rocks of Skye and other islands
- 47. Card references to literature regarding volcanic activity
- Typewritten - "Method of Testing for Oxygen" by Professor Phillips regarding his examination of samples of gas found in Yellowstone National Park
- 50. Letters and abstracts from papers regarding the radio-activity of thermal waters - Herman Schlundt and Richard B. Moore
- 51. Tabulation and analysis of rhyolites from Yellowstone National Park  
Translation of parts 2 to 5, pages 9-230, of D. De Launay's "Search, Curbing, and Management of Thermo-Mineral Springs"
- 53. Notes on thermal waters
- 55. T. A. Jaggar's letters to Hague and lists of photographs regarding the Absaroka Range, 1893, 1897-99 [2 envelopes]
- 56. An untitled document in an envelope labeled 'Absaroka for International Congress'
- Parts of manuscripts, notes, and abstracts from reports on the Absaroka Range in an envelope labeled "Duplicate material"
- 58. Catalogue of rocks collected in the Absaroka Range in 1893 and 1897 seasons

59. Notes and photographs on Firehole Basin
- 60B. Illustrations for Gibbon Basin
61. Original manuscript on Geyser Basin
62. Lists and notes on geysers in Yellowstone National Park
63. Miscellaneous papers relating to hot springs [items marked a, b, c, d, g, and h]
64. Notes on geysers and hot springs
65. Notes on Mammoth Hot Springs; Mount Everts Section; and travertine deposits
66. Notes on Mammoth Hot Springs
67. Manuscript on "Geology of Mammoth Hot Springs and Adjacent Country" with a list of illustrations for Mammoth Hot Springs Chapter
68. Notes on hot springs, most on Norris Basin
69. List of hot springs in Yellowstone National Park; and notes on Norris Geyser Basin
70. Notes on Norris Basin and hot springs
71. Manuscript titled "Norris Geyser Basin and Gibbon River Thermal Areas"; notes on geysers and hot springs; and photographs of Recess Spring, Thorium Spring, Realgar Spring, Mud Springs, and Roaring Mountain [no photographs were found]
72. Miscellaneous notes on geysers and hot springs
73. Outline of chapters on geysers and hot springs
74. Photographs of Hidden Spring, central vent of Monarch Geyser, close up view of Hidden (or Gable) Spring, Black Growler, Constant Geyser, and The Fissure (or New Crater).
75. Miscellaneous note on Norris Basin
76. List of papers of W. H. Weed sent from Norwalk, Connecticut, February 1914; list of geysers in Lower Geyser Basin and Norris Basin; a list M. P. Skinner's Yellowstone National Park photographs; and miscellaneous notes
77. Notes on Yellowstone National Park; notes on Paleozoic and Mesozoic sediments; and chart of comparative sections of the Gallatin Range
79. Notes, lists of geysers, and other data on Upper Geyser Basin and Excelsior Geyser Basin
80. Miscellaneous handwritten notes in an envelope labeled "Outlet of Yellowstone Lake"
81. Notes on Yellowstone Lake and adjacent area
82. Manuscript chapter on "Composition and Deposits of the Thermal Waters of the Park Plateau"
83. Miscellaneous notes on hot springs
84. Notes on Norris Basin
85. Envelope labeled 'Weed Scraps' including a note on Juniper Creek Hot Spring, and notes titled "Formation of Siliceous Sinter"
86. Fragmentary notes by W. H. Weed on geyser basins
87. Notes on the Lower Geyser Basin, 1902
88. Photographs of Hymen Terrace, Fissure Spring, Blue Spring, Hot River, Hymen Spring-Liberty Cap-The Thumb, Elephants Back, Narrow Gauge Fissure, Pulpit Terrace, Mammoth Hot Springs, Cupids Cave, Minerva Springs, and Silver Gate
89. Notes on thermal waters and springs
90. Miscellaneous notes
91. Notes on the height of Yellowstone Falls by William Hallock
92. W. H. Weed's "Yellowstone Park Notes," 1891
93. Manuscript on "Physical Features of the Yellowstone National Park"
94. Manuscript on the lakes in Yellowstone National Park
95. Original manuscript on "Mammoth Hot Springs"
96. Notes on 'thermal waters and sediments'
97. Notes on "Lake Shore Hot Springs"
98. Notes on quadrant quartzite with notation - "extract from D. D. Condit's paper"
99. Manuscripts on "Early Acid Breccias"
100. Manuscripts: "Early Acid Breccias"; "Region of Crandall Creek"; and "Crandall Creek Area"

- Typescript copy of an article in the *Evening Post*, Vol. LVII, 1858, titled "Description of the Great Shoshone Falls, on the Snake River, or Lewis's Fork of the Columbia," by George Gibbs
- 102. "Notes on the principles underlying rock classification" by George F. Becker
- 103. Notes on basalts
- 104. Notes on igneous rocks of the Great Basin
- 106. Geological notes on Cuba
- 107. Translated copy of "Laws of Deformation of Strata"
- 108. Handwritten notes in an envelope labeled "Address for Thermal Springs"
- 109. Notes on Mount Everts
- 110. A clipping titled "Yellowstone National Park" by F. V. Hayden from Johnson's Universal Cyclopedia, Volume VIII
- 113. Partial manuscript titled "Uplift of the Range"
- 114. Memorandum on Clark's Fork Valley
- 115. "Notes on the Geology North of Crandall Quadrangle"
- 116. Miscellaneous notes and data

## Appendix 8

### Geologic Division - General Correspondence Files, 1890-1922 (entry 159)

1.1	Committee on Revision of Survey Regulations, 1902-11
1.2	Committee on Advertising and Distribution of Survey Publications, 1902-7
1.3	International Committee on Geologic Nomenclature (of common interest to Geological Survey and Geological Survey of Canada), 1903-12
1.4	Library Committee, 1903-15
1.10	Examination of records, 1901-15
1.11	Committees, 1903-15
2	Geologic Atlas (geologic classification and nomenclature), 1902-3
3	Boutwell, John M., 1902-11
4.1	Accounts, 1912-15
4.15	Fire losses, 1913
4.30	Per diem, 1914
4.50	Service Bulletin, 1913
4.60	Supplies, 1913-14
4.65	Shipments, 1913
5.3	Wilson, Herbert M. (Technologic Branch), 1903-10
5.36	Vaughan, T. Wayland (Coastal Plain Investigations), 1909-15
6	Bien, Morris, 1902-7
8	Ulrich, Edward O., 1902-15
9-3	Topographic, 1903-14
-	Topographic work requested by the Geologic Branch, 1909-14 (6 files)
9.1	Requests for Topographic Survey annual budget, 1915
9.2	Requests for special surveys, 1914-15
9.10	Quadrangle names, 1914-15
9.21	Special engraving, 1914
9.70	Special topographic maps, 1915
11	Petrography, 1902-9
13	Palache, Charles, 1902-11
14	Mendenhall, Walter C., 1902-8
16	Gregory, Herbert E., 1903-15
17	Caracristi, C. F. Z., 1902-3
19	Newsom, John F., 1902-6
21	Kummel, Henry B., 1900-1915
22	Faunal charts, 1902-3
25	Howe, Ernest, 1906
26	Colorado, 1902-15
27	Bibbins, Authur, 1902-9
28	Schuchert, Charles, 1902-14
30	Woodson, J. A. - Pike County, Arkansas, oil and asphalt deposits, 1902
32	Cleland, Herdman F., 1914
34	Burchard, Ernest F., 1902-15
35	Clapp, Frederick G., 1904-13
38	Reid, Harry Fielding, 1902-14 (3 files)
39	Bailey, Willis, 1902
40	Tarr, Ralph S., 1901-12

41 Kübel, Stephen J., 1903-12  
 42 Bagg, Dr. Rufus M., 1902-10  
 43 Phillips, William B., 1902-16  
 46 Texas-Louisiana oil fields, 1903  
 47 Coal land in Indian Territory, 1902-10 (2 files)  
 48 Kentucky Geological Survey, 1912-15  
 48.10 Cooperative Agreements - Kentucky, 1914-15  
 49 Warner, A. J., 1903-15  
 50 Press Bulletins, 1913-15  
 52 Cuba, 1905-7  
 54 Merrill, Frederick J. H., 1903  
 56 Contributions to Economic Geology Bulletin, 1902-15 (2 files)  
 58 Committee on Classification and Nomenclature, 1902  
 58 Geologic Maps of North America, 1906-13  
 58.5 Scheme for rating credit on maps, 1907  
 58.6 Proposed geologic maps of U. S., 1907  
 58.7 1:1,000,000 maps, 1909-10, 1914-15  
 58.8 Maps, 1907-15  
 58 Records of Millionth Map Committee, 1907-16  
 59 Geological Society of America, 1901-15  
 61 International Geological Congress, 1902-3  
 61a 12th International Geological Congress, 1910-13  
 61b 13th International Geological Congress, 1914  
 62 Irving, John D., 1903-15  
 63 Cooperation with the State of California, 1902  
 64 Manuscript - "The Pleistocene of Michigan and Indiana" and other manuscripts, 1903-15  
 65 Davis, William M., 1907-13  
 66 Weeks, Fred B., 1905-9  
 67 Michigan - Cooperation, 1903-14  
 68 Passaic Folio, 1903-4  
 70 McCallie, Samuel W., 1908-15  
 72 Lane, Alfred C., 1903-14  
 73 Landes, Henry, 1904-14  
 75 Van Hise, Charles R., 1903  
 76 "Louisiana Purchase" (St. Louis Exposition), 1903  
 77 Carnegie Institution, 1903-4  
 80 Arnold, Ralph, 1903-14  
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200.17	Navajo Indian Reservation, 1912-13
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200.62	Sully's Hill National Park, 1913-14
200.66	Five Civilized Tribes (manganese deposits in McCurtin County), 1912
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200.68	Albion, Pushmataha County (examination of reported gold deposits), 1912-13
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202	Alaska-Yukon Pacific Exposition, 1909
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204	Bancroft, Howland, 1911-14
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225	Section of Non-metalliferous Deposits, correspondence with Eliot Blackwelder, 1911-12
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 241.13 Potash - examination of areas by request of the public, 1912  
 241.15 Potash - new discoveries, 1915  
 241.20 Potash - drilling, 1912-14  
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 241.22 Potash - Smoke Creek Desert drilling, 1915  
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 241.32 Potash - Samples - Nevada, 1912  
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 848 Ashley, George H., 1902-15 (2 files)  
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 855.10 Cooperative Agreements - Oklahoma, 1912-13  
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 905 Chamberlain, Thomas C., 1897-1913  
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 909 Memoranda, 1901-2, 1912-15  
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 916 Hague, Arnold, 1902-15  
 933 Richardson, George B., 1902-15 (2 files)  
 951 Rowe, Richard B., 1900-1906  
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 970 Kansas Geological Survey - Erasmus Haworth, 1902-15  
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 991 Mineral lands and mineral land laws, 1905-7 (2 files)  
 991.619 Saline - Utah, 1907  
 991.778 Report on petroleum in Columbia, 1909

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---	Requests for personnel and specimen facilities; proposals to build new space; reports on storage space (3 files)
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0 071	Annual reports of Geologic Branch, fiscal years 1933-35, 1937-40, 1943-45
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103	Requests for employment (3 files)
103.1	Requests for employment (3 files)
104	Offers of employment (2 files)
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106	Preparation of specimens
108	Clerical staff - Appointments
110	Civil Service Examinations - General (2 files)
111	List of Eligibles
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121	Field Assistants - General (3 files)
123	Field Assistants - Termination of service
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131.4	Special Assignment of Geologists
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 251.01 Request for pictures taken from the air (2 files)  
 252 Authority to purchase; preference ratings; priorities  
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 270 Accounts - General, 1916-42, 1949-52 (2 files)  
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 274 Transportation requests (3 files)  
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 279 Reimbursement by other Branches  
 310.1 Criticism of Survey publications, 1914-29 (2 files)  
 316 Criticism of Geologic Folios, 1912-23  
 321 Manuscripts submitted for Survey publications, 1910-44 (boxes 57-58)  
 321 Requests for Survey publications by outside organizations, 1949  
 329 Manuscripts submitted by outsiders for Survey publication, 1916-21  
 330 Publication of maps  
 333 Prices of Geological Survey map publications  
 335 Maps - Special Geologic and Economic  
 335.1 Oil and Gas Investigation Series, 1916-49  
 340 Press bulletins, 1916-49  
 350 Service Book, 1925  
 401 White House - Executive Orders, 1919-49 (2 files)  
 401.1 Coordinator of Inter-American affairs  
 402 State Department - General, 1919-44, 1948-49 (3 files)  
 402.01 Cooperation with Economic Cooperation Administrations in other countries  
 402.3 Correspondence with foreign embassies regarding Geological Survey overseas personnel and projects,  
 1916-40  
 402.5 Passport and Visa requests, 1919-49  
 403 Treasury Department - General  
 403.01 Treasury Department - Division of Disbursement (2 files)  
 403.2 Internal Revenue  
 403.3 Bureau of the Budget. 1922-49 (2 files)  
 403.31 Bureau of the Budget - manpower ceiling (boxes 63-64)  
 403.4 U.S. Public Health Service, 1917-49  
 403.5 Commission of Customs  
 403.6 Treasury - Bureau of the Mint

403.8 Comptroller of the United States - Decisions (5 files)  
 403.9 Procurement Division (3 files)  
 404 War Department - General (4 files)  
 404.3 Engineers Office, 1916-49 (3 files)  
 404.3 Reports on dam sites (8 files)  
 404.3.1 Requests from Geological Survey to Engineer Office for materials  
 404.5 U. S. Air Force, 1918-49  
 404.10 Army and Navy Munitions Board  
 405 Department of Justice (2 files)  
 405.1 Department of Justice - Detail of geologists  
 405.3 Regarding Geological Survey buying materials from Federal Prison Industries  
 406 Post Office Department - General  
 406.1 Post Office - Detail of Geologists  
 406.1 Post Office - Correspondence and Report on Mineral Deposits of the Vermiculite and  
         Asbestos Company, 1927  
 406.1 Post Office - Correspondence and report on mining claims of the Gabola Gold Mining Company,  
         1932  
 406.9 Mails (2 files)  
 406.91 Mails - Losses  
 407 Navy Department - General (4 files)  
 407 Navy Department - Lake Denmark Explosion, Dover, New Jersey, 1926  
         (oversize file, see box 180)  
 407 Navy Department - New Naval Hospital  
 407.1 Navy Fuel Board  
 407.4 Bureau of Yards and Docks  
 407.5 Hydrographic Office  
 407.6 West Indian Surveys, 1917-25  
 407.6 Oil Resources of Haiti and geological report - Wendell P. Woodring, 1917-25  
 - Geology of Naval ordnance test site, Sevier Bridge Reservoir, San Pete and Juab Counties,  
         Utah, 1953  
 --- Navy Oil Unit  
 408 Interior Department - General, 1916-52 (boxes 72-73)  
 408.001 Water Resources Committee (2 files)  
 408.002 Coordination Committee, 1946-49 (2 files)  
 408.002 Petroleum Administration for Defense, 1951  
 408.003 Personnel Division  
 408.005 National Minerals Advisory Council  
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 408.01 Defense Minerals Committee (2 files)  
 408.02 Budget and Administrative Management letters and bulletins; decisions (boxes 74-75)  
 408.03 Fish and Wildlife Service  
 408.04 Division of Territories and Island Possessions (2 files)  
 408.05 Suggestions Committee (3 files)  
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 408.06 Office of the Solicitor  
 408.1 General Land Office, 1916-46  
 408.11 GLO - Requests for township plats and books (2 files)  
 408.12 General Land Office - Cooperation, 1916-49 (2 files)  
 408.2 Patent Office  
 408.3 Pension Office  
 408.3 Office of Information

408.31 Miscellaneous Service Division  
 408.32 Publications Section  
 408.4 Office of Indian Affairs - General and reports by Survey, dam sites and mining districts  
 (boxes 77-78)  
 408.5 Division of Investigations (2 files)  
 408.51 Oil and Gas Division  
 408.6 Bureau of Reclamation - General and reports (boxes 78-82)  
 408.7 National Park Service - General and reports (3 files)  
 408.7 Hawaiian Volcano Observatory  
 408.71 National Park Service - reports by Geological Survey, from 1915 (boxes 82-83)  
 --- Survey of Yellowstone Lake  
 408.9 Bonneville Power Administration  
 409 Bureau of Mines - General (boxes 83 to 86)  
 409.1 Bureau of Mines - Cooperation, from 1913 (boxes 86-87)  
 409.11 Cooperation - Argon Investigations, 1918  
 409.12 Cooperation - Potash Investigations  
 409.13 Cooperation - Oil shale investigations  
 409.2 Analysis of Coal Samples  
 409.3 Analysis of Oil and Gas  
 409.3 Defense Production  
 409.4 Analysis of Oil Shale  
 409.5 Advance information from the Survey  
 409.7 Duplication of work by Survey and Bureau of Mines  
 410 Department of Agriculture - General  
 410.1 U.S. Weather Bureau  
 410.10 Soil Conservation Service  
 410.2 Cooperation with Bureau of Plant Industry and Animal Husbandry  
 410.3 Cooperation with Bureau of Plant Industry, 1916-49  
 410.4 Forest Service, 1911-49 (2 files)  
 410.41 Forest Service Reports (boxes 89-91)  
 411 Department of Commerce - General  
 411.1 Bureau of the Census  
 411.2 Bureau of Foreign and Domestic Commerce  
 411.3 Bureau of Standards (2 files)  
 411.31 Cooperation on Analysis of Samples  
 411.6 Coast and Geodetic Survey (2 files)  
 411.7 Bureau of Mines - General  
 411.71 Bureau of Mines - Cooperation (3 files)  
 411.71 Potash Investigations  
 411.72 Coal and Peat Analysis  
 411.73 Oil and Gas Analysis  
 411.74 Oil Shale Analysis  
 411.8 U.S. Patent Office  
 413 U.S. National Museum  
 413.2 Transfers from Geological Survey to National Museum  
 413.9 General accession material for National Museum (boxes 94-95)  
 415 Panama Canal (includes photographs)  
 416.11 Petroleum Administration Board  
 416.112 Petroleum Administration for War  
 416.12 National Archives - Disposal, transfer and loans of records  
 416.13 Reconstruction Finance Corporation

416.131	Defense Plant Corporation (2 files)
416.132	Metals Reserves Company (2 files)
416.133	Colonial Mica Corporation
416.2	Interstate Commerce Commission - Railroads
416.3	Federal Trade Commission
416.5	United States Board on Geographic Names
416.7	Government Printing Office
416.8	Public Buildings Administration
417.1	Commission of Fine Arts
417.2	United States Tariff Commission
417.3	United States Coal Commission
417.4	Federal Oil Conservation Board
417.5	United States Civil Service Commission
417.8	War Production Board (7 files)
417.9	Joint Research and Development Board
417.91	Plan for Aleutian Investigations
422	Fuel Administration
423	War Industries Board
425	War Trade Board
426	Director General of Railroads
427	Room Registration Office
428	Joint Information Board, Minerals and Derivatives
429	Alien Property Custodian
430	Capital Issues Committee
436	Public Works
438	Tennessee Valley Authority (2 files)
439	National Resources Board
440.2	Letters to Congressmen regarding work in the States (3 files)
441	Missouri Valley Authority
442	Missouri Basin Interagency Commission (2 files)
442.1	Missouri Basin Administration Reports
450	Council of National Defense
450.1	Transportation Committee
450.2	Committee on Fertilizers
451	Council of National Defense - Cooperation
451.1	Cooperation with Council of National Defense
452	Council of National Defense - State Organizations (2 files)
453	Council of National Defense - Committee on Fuels
460	War Minerals Committee
460.1	Subcommittee on Sulphur, pyrite, and manganese
461	War Minerals Committee - Membership
470.1	Federal Housing Administration
472	Foreign Economic Administration (3 files)
477	Office of Strategic Services
479	War Assets Administration
-	Committee for Cooperative Investigations Abroad
-	Governmental Advisory Committee on Oceanography
-	Lake Erie Project
-	President's Scientific Research Board
-	Pacific Southwest Field Committee
500	Cooperation with and a list of State Geologists (2 files)

501 Cooperation with Survey  
 510 Alabama - General, 1916-49  
 510.1 Cooperative Agreements - Alabama  
 510.2 Cooperative Projects - Alabama  
 510.6 Accounts and Disbursements for Cooperative Work - Alabama  
 511 Cooperative Projects - Arizona  
 511.2 Cooperation - Arizona, Bureau of Mines  
 512 Cooperation - Arkansas  
 513 California - General  
 513.2 Cooperation - California (3 files)  
 513.6 Accounts and Disbursements for Cooperative Work - California  
 514 Colorado - General  
 514.2 Colorado - Cooperation (2 files)  
 514.6 Accounts and Disbursements for Cooperative Work - Colorado  
 515 Connecticut - General  
 515.2 Cooperation - Connecticut  
 516 Florida - General  
 516.2 Correspondence re: report on the Mollusks of the Choctawhatchee Formation  
 516.2 Revision of Report on Geology and Water Resources of Florida  
 516.2 State Map of Florida  
 516.2 Cooperation - Florida  
 516.6 Accounts and Disbursements on Account Cooperation - Florida  
 516.6 Agreements - Florida  
 516.9 State Reports  
 517 Georgia - General, 1913-49  
 517.1 Cooperative Agreements - Georgia  
 517.2 Cooperation - Georgia, 1915-45  
 517.2 Physical Features of Georgia - proposed report  
 517.6 Accounts and Disbursements on Account Cooperation - Georgia  
 517.9 State Reports - Georgia  
 519.2 Cooperation - Idaho  
 519.2 Oil Investigations - Idaho  
 519.2 Umpleby's work on ore deposits - Idaho  
 519.9 State Reports - Idaho  
 519.9 Seven Devils Region  
 520 Illinois - General  
 520.1 Agreements re: cooperative work - Illinois  
 520.2 Cooperation - Illinois (includes separate files on various projects)  
 520.6 Accounts and Disbursements on Account, Cooperation - Illinois  
 520.9 State Reports - Illinois  
 521 Indiana - General  
 521.2 Cooperation - Indiana  
 521.6 Accounts and Disbursements on Account Cooperation - Indiana  
 521.9 State Publications - Indiana  
 522.1 Cooperative Agreements - Iowa  
 522.9 State Reports - Iowa  
 523 Kansas - General  
 523.1 Cooperative Agreements - Kansas  
 523.2 Cooperation - Kansas (includes separate files for various projects)  
 523.6 Accounts and Disbursements on Account Cooperation - Kansas  
 523.9 State Reports - Kansas

524	Kentucky - General
524.1	Cooperative Agreements - Mississippian Investigations
524.2	Cooperation - Kansas (includes separate files on various projects)
524.6	Accounts and Disbursements on Account Cooperation - Kentucky
524.9	State Reports - Kentucky
525.2	Cooperation - Louisiana
525.9	State Reports - Louisiana
526	Maryland - General
526.1	Cooperative Agreements - Maryland
526.2	Cooperation - Maryland
526.6	Accounts and Disbursements - Maryland
527	Michigan - General (2 files)
527.1	Cooperative Agreements - Michigan
527.2	Cooperation - Michigan (2 files)
527.6	Accounts and Disbursements - Michigan
528	Minnesota - General
528.1	Cooperative Agreements
528.2	Cooperation - Minnesota
528.9	State Reports - Minnesota
529	Mississippi - General
529.9	State Reports - Mississippi
530	Missouri - General (2 files)
530.2	Cooperation - Missouri
530.6	Accounts and Disbursements - Missouri
530.9	State Reports - Missouri
531	Montana - General
531.2	Cooperation - Montana
531.6	Accounts - Montana
532	Nebraska - General
532.9	State Report - Nebraska
533	Nevada - General
533.2	Cooperation - Nevada (2 files)
534	New Jersey - General
534.1	Cooperative Agreements - New Jersey
534.2	Cooperation - New Jersey
534.6	Accounts and Disbursements - New Jersey
535	New Mexico - General (2 files)
535.1	Cooperative Agreements - New Mexico
535.2	Cooperation - New Mexico (3 files)
535.6	Accounts and Disbursements - New Mexico
535.9	State Reports - New Mexico
536	New York - General
536.2	Cooperation - New York
537	North Carolina - General
537.1	Cooperative Agreements - North Carolina
537.2	Cooperation - North Carolina (3 files)
537.6	Accounts and Disbursements - North Carolina
538	North Dakota - General
538.2	Cooperation - North Dakota
539	Ohio - General
539	Cooperation - Ohio

540 Oklahoma - General (2 files)  
540.1 Cooperative Agreements - Oklahoma  
540.2 Cooperation - Oklahoma (2 files)  
540.6 Accounts and Disbursements - Oklahoma  
540.9 State Reports - Oklahoma  
541 Oregon - General  
541.1 Cooperative Agreements - Oregon  
541.2 Cooperation - Oregon (3 files)  
541.6 Accounts and Disbursements - Oregon  
542 Pennsylvania - General  
542.1 Cooperative Agreements - Pennsylvania  
542.2 Cooperation (includes separate files on various projects) - Pennsylvania  
542.9 State Reports - Pennsylvania  
543 Rhode Island - General  
543.2 Cooperation - Rhode Island  
543.6 Accounts and Disbursements - Rhode Island  
544 South Carolina - General  
545 South Dakota - General  
546 Tennessee - General  
546.1 Cooperative Agreements - Tennessee  
546.2 Cooperation (separate files on various projects) - Tennessee  
546.6 Accounts and Disbursements - Tennessee  
546.9 State Reports - Tennessee  
547 Texas - General  
547.1 Cooperative Agreements - Texas  
547.2 Cooperation - Texas (2 files)  
547.6 Accounts and Disbursements - Texas  
547.9 State Reports - Texas  
548 Utah - General  
548.2 Cooperation - Utah  
549 Vermont - General  
549.2 Cooperation - Vermont  
550 Virginia - General  
550.1 Cooperative Agreements - Virginia  
550.2 Cooperation (includes separate files for various projects) - Virginia  
550.6 Accounts and Disbursements - Virginia  
550.9 State Reports - Virginia  
551 Washington - General  
551.2 Cooperation - Washington  
552 West Virginia - General, 1913  
552.6 Accounts and Disbursements - West Virginia  
552.9 State Reports - West Virginia  
553 Wisconsin - General  
553.2 Cooperation - Wisconsin (2 files)  
553.6 Accounts and Disbursements - Wisconsin  
554 Wyoming - General  
554.2 Cooperation - Wyoming  
554.6 Accounts and Disbursements - Wyoming  
555 New Hampshire - General  
555.2 Cooperation - New Hampshire  
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556	Maine - General
556.1	Cooperative Agreements - Maine
556.2	Cooperation - Maine
557	Massachusetts - General
557.1	Cooperative Agreements -Massachusetts
557.2	Cooperation - Massachusetts (3 files)
557.6	Accounts and Disbursements - Massachusetts
557.9	State Reports - Massachusetts
601	Acknowledgments of Courtesies
601.1	Memorials
601.2	Addresses
602	Commendations
603	Complaints and Criticisms
604	Introductions and interviews
605	Invitations and announcements
606	Loan of Survey Materials
606.1	Loans of negatives
606.2	Loan of advance publications (2 files)
606.3	Loan of specimens
606.4	Loan and gifts from Survey for Exhibition Purposes
606.5	Loans and gifts; Maps and publications (2 files)
606.51	Requests for reprints of Survey publications
607	Permission to use Survey material (2 files)
607.2	Papers for outside publication
608.2	Recommendations, schools and courses
608.21	Lectures by Survey members
608.3	Recommendations, textbooks, etc.
609	Lawsuits, testimony by geologists (2 files)
610	Examinations - general (2 files)
611	Requests for geologic surveys - mineral lands (2 files)
613	Requests for geologic examination - potash
618	Requests for geologic examinations - cooperation (2 files)
618.1	Requests for geologic examination - cooperation with railroads
620	Texas - geologic map
621	Miscellaneous nonmetals
621.01	Magnetite
621.02	Asbestos (2 files)
621.04	Talc and soapstone
621.1	Abrasives
621.2	Clays, sands, etc.
621.21	Materials for optical purposes
621.22	Glass sand
621.3	Gems and precious stones (2 files)
621.4	Graphite
621.5	Gypsum
621.6	Mica
621.7	Salts
621.8	Sulphur and pyrite
621.9	Feldspar and fluorspar
622	Building and road materials, miscellaneous
622.1	Asphalt and ozoerite (2 files)

622.2	Cement
622.3	Granites and Marbles
622.4	Limestone and sandstones
622.8	Slate
623	Fertilizers - general
623.1	Phosphate
623.2	Potash and nitrate (4 files)
624	Fuels
624.1	Coal (both U. S. and foreign) (boxes 135-136)
624.15	Requests for information
624.2	Petroleum and natural gas (boxes 136-137)
624.20	Oil and gas wells (2 files)
624.202	Helium gas
624.21	Oil shale (3 files)
624.211	Ichthyol
624.212	Oil sands
624.22	Value of geologic work to oil companies
624.23	Leasing oil lands (2 files)
624.24	Oil lands - instruments for locating (2 files)
624.25	Oil and gas companies (boxes 138-139)
624.251	Oil pipe lines
624.26	Textbooks on oil geology
624.261	Geologic maps; oil maps
624.27	Estimates of supply of petroleum (2 files)
624.29	Investments - oil, gas, and oil shale
624.3	Peat (2 files)
624.31	Use of sphagnum moss in surgical dressing
625	Metals - General (9 files)
625.01	Chromite (2 files)
625.02	Red Bole
625.03	Arsenic
625.1	Aluminum and bauxite
625.2	Copper (3 files)
625.3	Gold and silver (2 files)
625.4	Iron and manganese (9 files)
625.5	Lead and zinc
625.6	Platinum (2 files)
625.7	Quicksilver
625.8	Rare metals
626	Mines
626.1	Mining companies
626.2	Investment information requests
626.3	Placer mining
626.4	Prospecting
626.5	Rods, divining, etc.
626.8	Ore reserves
627	Scientific and Technical - General
627.02	Temperature (requests for information)
627.03	Sedimentation
627.1	Earthquakes and volcanos
627.1	Earthquakes and volcanos, Central America

627.2	Glaciers
627.2	Glaciers, foreign
627.3	Paleontology
627.3	Paleontology - Alaska
627.3	Paleontology, foreign, A-Z (7 files)
627.4	Petrography
627.5	Physiography
627.6	Stratigraphy
627.7	Nomenclature
627.8	Nomenclature
627.9	Wells
628	Specimens, general
628.1	Requests for information re: specimens analysis
628.2	Determination of specimens, United States and foreign (3 files)
628.3	Acknowledgment of specimens received by Geological Survey
628.4	Requests for specimens by Geological Survey
628.5	Re: shipments of specimens

At this point the series contains files organized by the following categories: General, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. Thereunder the files are organized by selected elements of the decimal classification scheme governing this series as shown below. Not all file elements exist for all the categories.

607	Maps - Geological
608.3	Requests for information
609	Litigation; Testimony
610	Requests for geologic examination and surveys
611	Requests for examination of minerals lands
612	Requests for geologic examination - oil and gas
618	Formation names for maps; geologic boundary lines; employment on field parties
618.1	(Wyoming) Coal Basin Study
620	General
620	[Texas] Geologic map
620.02	Asbestos
621	Non-metals
621.01	Magnesite
621.04	Talc and soapstone
621.1	Abrasives
621.2	Clays, sands, and gravel
621.21	Silica, for optical glass manufacture
621.3	Gems and precious stones
621.5	Gypsum
621.6	Muscovite
621.7	Salts (except potash)
621.8	Sulphur
621.9	Feldspar and flourspar

- 622 Building materials
  - 622.1 Asphalt and ozalерite
  - 622.2 Cement
  - 622.3 Granite, marbles
  - 622.4 Limestone and sandstone
  - 622.8 Slate
- 623 Fertilizer
  - 623.1 Phosphate
  - 623.2 Potash and nitrate
- 624 Coal beds
  - 624.1 Coal
  - 624.2 Oil and gas
  - 624.20 Oil and gas wells
  - 624.202 Helium
  - 624.21 Oil shale
  - 624.212 Oil sand
  - 624.25 Oil companies
  - 624.261 Coal fields; Oil maps
  - 624.27 Statistics on petroleum production
  - 624.28 Promotional enterprises
- 624.3 Peat
- 625 Miscellaneous Metals
  - 625.01 Chromite
  - 625.1 Bauxite
  - 625.2 Copper
  - 625.3 Gold and Silver
  - 625.4 Iron and manganese
  - 625.5 Lead and zinc
  - 625.6 Platinum
  - 625.7 Quicksilver
  - 625.8 Rare metals
  - 625.9 Tin and nickel
- 626 Mines
  - 626.1 Mining companies and mining districts
  - 626.3 Placer mining
  - 626.4 Prospecting
  - 626.5 Rods, divining, etc.
- 627 Scientific and Technical
  - 627.02 Temperatures in deep wells
  - 627.03 Core samples
  - 627.1 Earthquakes and volcanos
  - 627.2 Glacial geology
  - 627.3 Paleontology
  - 627.5 Physiography
  - 627.6 Stratigraphy
  - 627.7 Water resources
  - 627.8 [Texas] Frio Clay discussion
  - 627.9 Well records, data
- 628 Specimens
  - 628.1 Requests for information [assays, analyses]
  - 628.2 Determinations of specimens

650 Geologic investigations by nonsurvey members  
 650.1 Geologic investigations by nonsurvey members - paleontology  
 651 Geologic investigations by schools and colleges  
 652 Cooperation with outside individuals and organizations  
 655 Review of manuscripts  
 660 Conferences  
 660.1 American Geographical Society  
 660.2 Cosmos Club  
 660.3 American Museum of Natural History  
 660.4 American Association of Petroleum Geologists  
 660.41 American Association of Petroleum Geologists - Estimates of Petroleum reserves  
 660.6 American Mining Congress Bulletin  
 660.7 Society of Economic Geologists  
 660.8 American Petroleum Institute  
 660.9 Mining and Metallurgical Society of America (2 files)  
 661 Mining Conventions and Congress  
 662 Conservation Congresses and Conventions  
 663 National Academy of Sciences  
 663.1 National Academy of Sciences - Publications  
 663.2 Cooperation in study of Earth movements in California  
 663.3 National Research Council  
 664 Geological Society of America  
 664.1 Geological Society of America - papers  
 664.3 Geological Society of America - membership  
 664.4 Geological Society of America - meeting place  
 665 American Institute of Mining and Metallurgical Engineers  
 665.1 American Institute of Mining and Metallurgical Engineers, papers for publication  
 665.2 American Institute of Mining and Metallurgical Engineers, nominations  
 665.3 American Institute of Mining and Metallurgical Engineers, Division of Petroleum Technology  
 666 Pan Pacific Scientific Congress  
 666.1 Pan American Scientific Congress, papers for publication  
 667 Association of American Geographers  
 667.1 Association of American Geographers  
 667.2 Association of American Geographers - papers for publication  
 668 American Association for the Advancement of Science  
 668.1 American Association for the Advancement of Science, membership  
 668.2 American Association for the Advancement of Science, meetings  
 670 War Minerals - general (3 files)  
 670.1 War Minerals - deposits  
 670.2 War Minerals Administration Bill, 1918  
 670.3 War Minerals Relief Commission  
 671 Geologists to assist in War Minerals investigations (2 files)  
 671.01 Geologists to assist in War Minerals investigations - magnesium  
 671.1 Geologists to assist in War Minerals investigations - pyrite  
 671.2 Geologists to assist in War Minerals investigations - manganese (3 files)  
 671.3 Geologists to assist in War Minerals investigations - quicksilver (2 files)  
 671.4 Geologists to assist in War Minerals investigations - platinum  
 671.5 Geologists to assist in War Minerals investigations - tin (2 files)  
 671.6 Geologists to assist in War Minerals investigations - rare metals (2 files)

671.7 Geologists to assist in War Minerals investigations - chromite  
671.8 Geologists to assist in War Minerals investigations - nickel  
671.9 Geologists to assist in War Minerals investigations - mica (2 files)  
672 Military service of outsiders (2 files)  
680 National Science Foundation, 1954  
710 Alaska Branch  
711 Conservation Branch  
712 Chief Counsel  
720 Chemistry and Physics Section  
724 Chemistry and Physics - investigations  
724.1 Suggestions for investigations  
724.2 Van Orstrand  
724.3 Geochemical Prospecting Unit  
724.4 Organization of Section of Geochemistry and Petrology  
– Projects in Section of Geochemistry and Petrology  
728 Specimen analysis  
729 Equipment  
730 Mineral Resources  
732.3 Reports of foreign mineral deposits  
– Projects in Mineral Deposits Section  
740 Report on Craters of the Moon National Monument, Idaho  
741 Requests for Topographic Surveys, general  
744 Topographic Maps  
750 Correspondence with private individuals regarding participation on Geological Survey sponsored field trips  
750 Report on occurrence of artisan water at U.S. Navy Yard at Bremerton, Washington  
762 Division Field Equipment  
763 Distribution and use of field equipment and other property  
764 Distribution of Geological Survey publications  
765 Division of Map Reproduction  
765.1 Photographic Laboratory (requisitions for distribution of photographs)  
765.2 Photomicrographic Laboratory  
770 Publications Office  
775 Section of Illustrations  
776 Section of Map Editing (2 files)  
777 Section of Texts  
779 Cartographic Section  
780 Office of Geologic Information and Reports  
781 Requests for Control Data  
– Section of Engineering Geology - Projects  
– Section of Paleontology and Stratigraphy - Projects  
800 Organization and work, 1916  
800 Organization and Work - Geologic, Annual Report  
800 Ten Year Program for fissionable materials  
800 Comments on Six Year Plan, 1954-59  
800.01 Memorandum for the Director  
800.1 Memorandum for the record  
800.2 Conference of Geologic Branch with various sections  
– Notes on meetings & conferences  
800.3 Administrative Research and Development  
801 Requests for and assignments of temporary positions

802.1	Post War plans
802.2	Geologic Branch - Bikini Project
802.2	G. I. Retraining Program
803	General Relations with Members of Geologic Branch
803.2	Agreements to complete reports
803.3	Acknowledgments, Commendations, etc.
803.4	Scientific By-products of Geology (2 files)
803.5	Clerical Assignments (2 files)
804	Peat deposits of the U.S. (3 files)
804.01	Gravity studies
804.02	Oil Shale Studies
804.03	Tectonic Map of the U.S.
804.04	Micropaleontology of oil fields
804.1	Suggestions of geologic investigations
804.3	Railway guidebooks
804.4	Army Camps (organized by name of camp)
804.5	War Minerals Investigations
804.6	Data regarding scientific organizations
804.7	Permission for foreigners to join survey parties
804.8	Volcanology studies in Hawaii
850	Zinc-Lead Project, Wisconsin, Illinois, Iowa
850	Metalliferous Resources of Wyoming
854	Metalliferous deposits; investigations; Colorado; Utah
864	Areal and nonmetal investigations - Arizona, California, Colorado, New Mexico, Nevada, Utah
864.1	Potash investigations - New Mexico
866	Areal Section (2 files)
890	Fuels Section
894	Fuels, investigations - California; Colorado; Oklahoma
894.6	Naval Petroleum Reserve
940	Geophysical Branch (transferred from Bureau of Mines) (2 files)
940	Geophysics
940	Geophysical Branch - Projects
953	Field Manual prepared by Alaskan Section

## Appendix 10

### Geologic Division - Records concerning Division Employees, 1930-53 (entry 164)

#### A - Miscellaneous, 1948-52

Adams, John W., 1947-52  
Agnew, Allen F., 1942-52 (2 files)  
Albee, Arden L., 1950-52  
Albers, John P., 1942-51  
Alexander, William Jasper, 1948-53  
Almond, Hy, 1948-52  
Allen, Victor, 1942-51  
Allingham, John W., 1949-52  
Anderson, Charles A., 1943-52 (3 files)  
Anderson, Frank J., 1948-49  
Andrew, Francis G., 1947-53 (2 files)  
Andrews, Thomas G., 1945-52  
Armstrong, Frank C., 1943-52 (2 files)  
Arnold, David C., 1951-52  
Atherton, Ruth, 1951-52

#### B - Miscellaneous, 1942-52

Bailey, Edgar H., 1943-52 (3 files)  
Bailey, R. K., 1942-46  
Bales, William E., 1952-53  
Baker, Donald R., 1952  
Bannerman, Harold M., 1947-53  
Barnes, James V., 1947-50  
Barton, William R., 1951-52  
Bassett, Allen M., 1951-52  
Bateman, Paul C., 1942-52 (2 files)  
Bauer, Herman L., 1949-51  
Baumgardner, Luther, 1951-52  
Becraft, George E., 1950-52  
Beelere, David O., 1949-53  
Behre, Charles H., 1948-52  
Bejnar, Waldemere, 1948-52  
Bell, Henry, 1949-52  
Bell, Kenneth G., 1950-52  
Bell, Mendell M., 1948-51  
Bergman, Keith S., 1951-52  
Berliner, M. Howard, 1950-51  
Beroni, Ernest P., 1948-52  
Billings, Marland P., 1947-48  
Bingham, Genevieve, 1950-51  
Blackman, Doris H., 1950  
Bodenlos, Alfred J., 1947-48  
Bostwick, David A., 1948-53  
Bowles, Charles Gilbert, 1950-53

Boyes, Margaret, 1951-53  
 Bozion, C. N., 1943-53  
 Brasher, George K., 1950-53  
 Bridge, Josiah, 1943-51  
 Brobst, Donald A., 1948-52  
 Brock, Maurice R., 1951-52  
 Broedel, Carl H., 1950-52  
 Brokaw, Arnold L., 1944-53  
 Bromfield, Calvin S., 1951-52  
 Brown, C. Ervin, 1951-52  
 Brown, C. Norman, 1950-53  
 Brubaker, Lewis A., Jr., 1950-52  
 Brueggemeyer, William S., 1951-52  
 Bryner, Leonid, 1947-52  
 Bryson, Robert P., 1951-52 (2 files)  
 Buck, Katherine Lutz, 1948-52  
 Buddington, A. F., 1943-52 (2 files)  
 Buie, Bennette F., 1951-52  
 Burbank, Wilbur S., 1944-52  
 Bush, Alfred L., 1946-52  
 Butler, Arthur P., 1944-53  
 Butler, B. S., 1944-50  
 Byers, Frank M., 1952  
 Byers, Virginia P., 1947-50

C - Miscellaneous, 1943-52  
 Cadigan, Robert A., 1948-52  
 Cady, Wallace M., 1946-52 (2 files)  
 Caldwell, Dabney, 1952  
 Calkins, Frank C., 1944-53  
 Callaghan, Eugene, 1940-52  
 Cameron, Eugene N., 1945-52  
 Campbell, Arthur B., 1948-52  
 Campbell, Charles D., 1942-52  
 Campbell, Ian, 1942-53 (2 files)  
 Campbell, Russel H., 1951-52  
 Campbell, Robert M., 1947-50  
 Canney, Frank C., 1951-52  
 Cannon, Helen L., 1947-52  
 Cannon, Ralph S., 1942-52  
 Carlson, John E., 1951-52  
 Carlson, Relda, 1948-52 (2 files)  
 Carr, Martha S., 1947-52  
 Carr, Wilfred J., 1950-52  
 Cater, Fred W., 1942-52  
 Carter, William D., 1951-53  
 Cathcart, James B., 1945-52 (2 files)  
 Chai-Hsiang, Chao, 1946  
 Cavender, Wayne S., 1952  
 Chace, Frederick M., 1946-53  
 Cheney, Thomas M., 1951-52

Chidester, Alfred H., 1945-52  
 Christman, Robert A., 1949-52  
 Cupples, Norman P., 1952  
 Cifelli, Richard, 1948-50  
 Clabaugh, Patricia S., 1946  
 Clabaugh, Stephen E., 1945-52  
 Clark, Dorothy M., 1950-52  
 Clark, Lorin D., 1946-52  
 Clifford, Maurine, 1951-52  
 Cloud, Preston E., 1945-53  
 Coats, Robert R., 1951-52  
 Collins, John J., 1949-52  
 Cook, Donna M., 1952  
 Compton, Robert R., 1947-51  
 Cooper, John R., 1942-52  
 Cornwall, Henry R., 1943-52  
 Craig, Lawrence C., 1945-52  
 Cozzetto, Anita W., 1950-53  
 Creasey, S. Cyrus, 1942-52  
 Cressman, Earle R., 1948-52  
 Crittenden, Max D., 1942-52  
 Crowder, Dwight F., 1951-53  
 Crowe, Mary B., 1949  
 Crumpton, Rusian P., 1950-51

D - Miscellaneous, 1948-52  
 Danielson, John E., 1947  
 Darby, Eleanor R., 1947-48  
 Davidson, David F., 1948-52  
 Davidson, Edward S., 1948-52  
 Davis, Robert E., 1951-53  
 Daily, M. Corinne (Dawson), 1948-49  
 Dean, Basil G., 1952  
 Decker, Mary Fern, 1949-52  
 Deiss, Charles F., 1945-52  
 Dellwig, Louis F., 1947-52  
 DeVore, George W., 1948-53  
 Dickson, Frank W., 1951-52  
 Dings, McClelland G., 1942-52  
 Disbrow, Alan E., 1948-52  
 Drone, Grace, 1952  
 Dryden, Lincoln, 1952  
 Dreyer, Robert M., 1946-47  
 Duncan, Donald C., 1941-47  
 Dunlap, John C., 1945-51  
 Dunlap, Shirley, 1948-51  
 Durrell, Cordell, 1945-52 (2 files)  
 Durrell, Mary, 1948-50  
 Dutro, Howard B., 1950-52  
 Dutro, J. Thomas, Jr., 1948-52  
 Dutton, Carl E., 1949-52 (2 files)

E - Miscellaneous, 1948-52  
Early, Margaret, 1952  
Ebbley, Norman E., Jr., 1947-49  
Eberlein, G. Donald, 1946-47  
Eckel, Edwin B., 1940-52 (2 files)  
Egley, Paul W., 1949-50  
Ehlers, Ernest G., 1949  
Eicher, Lee J., 1951  
Ellis, Miller W., 1947-51  
Engel, A. E. J., 1944-52 (2 files)  
Engel, Celeste, 1947-52  
Eric, John H., 1945-52  
Erickson, George E., 1947-49  
Erickson, Ralph L., 1951-52  
Erickson, Algot J., 1950-52  
Espenshade, Gilbert H., 1941-52  
Evans, Owen D., 1951  
Everhart, Donald L., 1946-53 (2 files)  
Exner, Gertrude L., 1948-50

F - Miscellaneous, 1948-52  
Faick, John N., 1950-52  
Feegeer, John A., 1951  
Ferguson, Henry G., 1930-52  
Fieldman, Dolf W., 1950-51  
Finch, Warren I., 1948-52  
Finlayson, Doris P., 1949-50  
Fischer, Elizabeth G., 1947-53  
Fischer, Richard P., 1943-52 (2 files)  
Fix, Philip F., 1942-52  
Flawn, Peter T., 1947-49  
Flint, Arthur E., 1949-52 (2 files)  
Flint, George M., Jr., 1952-53  
Flint, Norman K., 1948-50  
Folger, John J., 1948-49  
Fox, Elinor L., 1948  
Freedman, Jacob, 1949-52  
Freeman, Val L., 1949-52  
Freshour, Edith D., 1951-53  
Frost, John E., 1949-51  
Frieske, Fred D., 1950-51  
Fries, Carl, Jr., 1939-43  
Fryklund, Verne C., 1951-52

G - Miscellaneous, 1943-52  
Gale, Hoyt S., 1939-52  
Gallagher, David, 1941-52 (3 files)  
Gardner, Kenneth W., 1947-52  
Gardner, Louis S., 1939-53

Gibson, Virginia L., 1948-52  
 Gilbert, Charles M., 1945-51  
 Gilbert, Cynthia C., 1951-52  
 Gildersleeve, Benjamin, 1951-52  
 Gilkey, Millard M., 1948-52  
 Gillerman, Elliott, 1945-52  
 Gilluly, James, 1942-53  
 Goddard, Edwin N., 1941-53  
 Good, Stanley E., 1949-50  
 Goode, Dorothy R., 1950-52  
 Goode, Harry D., 1950-52  
 Goodspeed, George E., 1948-50  
 Gordon, Mackenzie, 1940-51  
 Gordon, Ellis D., 1951-52  
 Gosman, Robert F., 1949-52  
 Gott, Garland B., 1949-52  
 Gould, Earl E., 1945  
 Gould, Howard R., 1951-52  
 Gower, Margaret, 1951-52  
 Gowdey, Frances S., 1950-52  
 Granger, Arthur E., 1941-53  
 Granger, Harry C., 1949-52  
 Granger, Janel Cook, 1948-53  
 Gray, Clifton H., 1951-52  
 Gregoire, Mary R., 1949-51  
 Griffiths, Wallace R., 1942-52  
 Griggs, Allen B., 1942-52  
 Gros, Frederick C., 1942-43  
 Gross, Eugene B., 1951-52  
 Grunig, James K., 1948-53  
 Gude, Arthur J., 1950-52  
 Gulbrandsen, Robert A., 1948-52

H - Miscellaneous, 1948-52  
 Hack, John T., 1949-52  
 Hagner, Arthur F., 1944-52  
 Hall, Darand A., 1941-43  
 Hall, Robert B., 1948-52  
 Hall, Wayne E., 1948-52  
 Hanley, Edward S., 1949-53  
 Hanley, John B., 1947-52  
 Hanson, Agnes R., 1949-52  
 Harbaugh, John W., 1950-51  
 Hardin, George C., Jr., 1946-47  
 Harrison, Jack E., 1951-52  
 Hasler, Marjorie O., 1952  
 Hasler, William J., 1951-52  
 Havens, Edna, 1952-53 (2 files)  
 Hawkes, Herbert E., 1941-52 (4 files)  
 Hay, Richard L., 1948-52  
 Henry, Margaret D., 1947-48

Herbaly, Elmer L., 1948-50  
Hernon, Robert M., 1948-52  
Herrmann, Leo A., 1948-51  
Hewett, D. Foster, 1936-52 (2 files)  
Heyl, Allen V., 1945-52  
Heyl, George R., 1942-48 (3 files)  
Heyman, Arthur M., 1951-52  
Hilpert, Doris R., 1948-51  
Hilpert, Lowell S., 1942-52  
Hill, James W., 1949-52  
Hill, Louise, 1951-52  
Hinrichs, E. Neal, 1948-51  
Hobbs, Warren S., 1941-53 (2 files)  
Holmes, Clifford N., 1948-52  
Holser, William T., 1948-52  
Hollister, Victor F., 1948-49  
Honkala, Fred S., 1948-52  
Hooker, Lucile A., 1948-52  
Hoppin, Richard A., 1947-49  
Hosterman, John W., 1949-52  
Hotz, Preston E., 1942-52  
Houser, Frederick N., 1949-51  
Howard, Winifred, 1950-51  
Howland, Arthur L., 1941-52  
Huddleston, Shirley, 1951-52  
Hudson, Lola N., 1951-52  
Huff, Lyman C., 1947-52 (2 files)  
Hughes, Mary E., 1949-51  
Huleatt, William P., 1947-49  
Hunt, Charles B., 1941-51

I - Miscellaneous, 1948-52

Icke, Hyman M., 1949-51  
Izett, Amy Derr, 1952

J - Miscellaneous, 1948-52

Jackson, Everett D., 1949-52  
Jahn, Jeanne, 1949-52  
Jahns, Frances H., 1949-52  
Jahns, Richard H., 1939-52  
James, Harold L., 1946-52 (2 files)  
Jaster, Marion C., 1949  
Jicha, Henry L., 1949-51  
Johnson, Donald H., 1950-51  
Johnson, Henry S., 1948-52  
Johnson, Robert B., 1944-47  
Johnson, Robert F., 1948-52  
Johnson, Virginia C., 1951-52  
Jones, Charles L., 1945-52  
Jones, William R., 1949-52

K - Miscellaneous, 1944-52  
 Kaiser, Edward P., 1948-52  
 Katich, Philip J., 1951-52  
 Kelley, Vincent C., 1942-51  
 Kenefick, Joseph L., 1950-52  
 Kennedy, George C., 1947-52  
 Kennedy, Vance C., 1948-52  
 Kent, Deane F., 1943-51  
 Kesler, Thomas L., 1946-51  
 Ketner, Keith B., 1949-52  
 Kiilsgaard, Thor H., 1950-52  
 King, Phillip B., 1950-52  
 King, Ralph H., 1941-50  
 King, Robert U., 1949-52  
 Kinkel, Arthur R., Jr., 1945-52  
 Kinney, Douglas M., 1943-49  
 Klaphaak, Madeline A., 1948-51  
 Klepper, Montis R., 1942-52 (2 files)  
 Klepser, Harry J., 1946-52  
 Knapp, Barbara B., 1949-52  
 Knechtel, Maxwell M., 1946-52  
 Kock, George S., Jr., 1948-52  
 Koschmann, Albert H., 1942-52 (3 files)  
 Krauskopf, Konrad B., 1942-52  
 Krieger, Medora H., 1945-52  
 Kuhn, Truman H., 1951-52  
 Kulp, J. Laurance, 1948-52  
 Kupfer, Donald H., 1943-52  
 Kupfer, Romaine L., 1949-52  
  
 L - Miscellaneous, 1949-52  
 Ladd, Harry S., 1942-43  
 Lakin, Hubert W., 1949-52  
 Lamey, Carl A., 1943-52  
 Lang, Andrew J., 1948-52  
 Lang, Walter B., 1939-52 (2 files)  
 Larsen, Esper S., 1942-45  
 Laskey, Samuel G., 1938-43, 1947-52 (7 files)  
 Laurence, Robert A., 1944-52  
 Lavel, William Norris, 1949  
 Law, Margaret R., 1950-52  
 Lawthers, Robert, 1951-52  
 Lee, Dorothy, 1952  
 Lee, Florence J., 1948-52  
 Lehner, Robert E., 1951-52  
 Lemish, John, 1948-52  
 Lemmon, Dwight M., 1939-52 (2 files)  
 Lemmon, Mary Elizabeth, 1948-49  
 Leonard, Benjamin F., 1943-52 (2 files)  
 Lough, Charles F., 1952  
 Lovering, Thomas G., 1948-52

Lovering Thomas S., 1940-52 (4 files)  
 Lowell, Wayne R., 1945-52  
 Luedke, Robert G., 1951-52  
 Luukkonen, Bruno O., 1950  
 Luttrell, Gwendolyn W., 1948-51  
 Lyons, Edwin J., 1948-52  
  
 M - Miscellaneous, 1948-52  
 Mackin, J. Hoover, 1945-52  
 Macy, Frederick L., 1949  
 Maher, Stuart W., 1948-50  
 Malampy, Mark C., 1941  
 Mansfield, George R., ca. 1942-45 (2 files)  
 Martin, Ruth, 1946-47  
 Maurice, Charles S., 1942  
 MacKallor, Jules A., 1948-52  
 MacKevett, Edward M., 1948-52  
 MacLachlan, James C., 1952  
 MacLaren, Donald R., 1952  
 MacNeil, F. Stearns, 1945-50  
 McAllister, James F., 1946-52  
 McCasland, Helen C., 1948-49  
 McCulloh, Thane H., 1949-52  
 McDermott, Esther T., 1948-50  
 McDonald, Ralph L., 1951-52  
 McFarland, Harry F., 1952  
 McFarland, Marianne, 1949  
 McIlhenny, Theo. S., 1949-52  
 McKay, Edward J., 1947-52  
 McKelvey, Vincent E., 1947-52 (5 files)  
 McKeown, Francis A., 1952  
 McKnight, Edwin T., 1946-52  
 McNair, Andrew H., 1942-47 (2 files)  
 McNeal, Robert P., 1949-51  
 McLaughlin, Kenneth P., 1948-51  
 McLeod, Edith P., 1949  
 McLeod, William R., 1952  
 McReel, Albert, 1952  
 Mertie, John B., 1945-52  
 Meissner, Charles R., 1948  
 Merriam, Charles W., 1942-52  
 Meschter, Daniel Y., 1951-52  
 Millar, Wilton T., 1947-49  
 Miller, Florence W., 1950-52  
 Miller, Glenn A., 1952  
 Miller, Ralph L., 1942-45  
 Miller, Robert L., 1949  
 Miser, Hugh D., 1940-44  
 Monroe, Watson H., 1941  
 Moritas, Marguerite A., 1951-52  
 Moore, Frank B., 1948-52

Moore, James G., 1950-52  
Moore, Samuel L., 1951-52  
Morris, Duane C., 1950  
Morris, Hal T., 1948-52  
Morris, Lavilla, 1951-52  
Mudgett, Philip B., 1952  
Muessig, Siegfried J., 1951-52  
Mullens, Thomas E., 1949-52  
Muller, Siemon W., 1947  
Murphy, John F., 1948-50  
Murphy, Thomas D., 1951-52  
Myers, W. Bradley, 1942-52  
Myers, William Howard, 1941-42

N - Miscellaneous, 1948-52  
Narten, Perry F., 1948-52  
Nelson, John N., 1943-52  
Nelson, Ned E., 1951-52  
Nelson, Vincent E., 1942-46  
Neuerburg, George J., 1951-52  
Neuschel, Sherman K., 1942-47  
Neuschel, Virginia S., 1946-47  
Newcomb, Edward L., 1949-52  
Newhouse, Walter H., 1942-52  
Newman, Alva L., 1951-52  
Newman, William L., 1949-51  
Nichols, Robert L., 1943-50 (2 files)  
Nininger, Robert O., 1942-43  
Noble, Levi F., 1940-48  
Nolan, Thomas B., 1943-48  
Norton, James J., 1946-52

O - Miscellaneous, 1948-52  
Odell, James W., 1946  
Olson, Jerry C., 1940-52 (2 files)  
O'Malley, Frank Ward, 1948  
O'Rourke, Joseph E., 1950-52  
Oster, Thomas W., 1948-50  
Osterstock, Robert W., 1948-51  
Overstreet, William C., 1949-52

P - Miscellaneous, 1948-52  
Page, Ben M., 1944-50  
Page, James J., 1943-52  
Page, Lincoln R., 1939-52 (6 files)  
Park, Charles F., Jr., 1938-52 (2 files)  
Pardee, Franklin G., 1946-50  
Parker, John M., III, 1942-52  
Parker, Raymond L., 1948-52  
Patterson, Sam H., 1948-52  
Patton, Priscilla C., 1948-51

Patzwald, Fred, 1952  
 Pavlides, Louis, 1948-52  
 Payne, Oscar A., 1948-49  
 Peck, Dallas L., 1952  
 Pecora, William T., 1941-44  
 Pelnarsch, Dorothy C., 1952  
 Peoples, Joe Webb, 1939-52 (5 files)  
 Petersen, Richard G., 1947-52  
 Peterson, Nels P., 1942-52  
 Pettijohn, Francis J., 1945-52  
 Phoenix, David A., 1945-52  
 Pierce, William G., 1940-42  
 Pierson, Charles T., 1951-52  
 Plake, James N., 1952  
 Platt, Norman B., 1949  
 Plummer, Wayne L., 1949  
 Postel, A. William, 1947-52  
 Potter, Donald B., 1950-52  
 Powell, William J., 1945-48  
 Pratt, Walden P., 1949-51  
 Pray, Lloyd C., 1946-52  
 Proctor, Paul Dean, 1945-52  
 Puffett, Willard P., 1950-52

#### Q - Miscellaneous, 1949-52

R - Miscellaneous, 1946-52  
 Rabbitt, John C., 1943-48  
 Rainey, Henry C., III, 1950-52  
 Randall, Dolores M., 1949-51  
 Read, Charles B., 1942-47  
 Redden, Jack A., 1948-52  
 Reeves, Robert G., 1950-52  
 Reinemund, John A., 1942-45  
 Renshaw, J. R., 1952  
 Rinehart, Charles D., 1951  
 Reid, Mary, 1952  
 Reinhardt, Elmer V., 1948  
 Replogle, Bert K., 1950-51  
 Richards, Arthur, 1942-48  
 Richards, Ralph W., 1943-45  
 Rigby, Truman K., 1947  
 Roadifer, Roy E., 1948-52  
 Roberts, Ralph J., 1940-52 (2 files)  
 Roberts, Wayne A., 1949-52  
 Roberts, William B., III, 1948-52  
 Robertson, Jacques F., 1949-52  
 Robinson, Charles S., 1949-52  
 Rogers, Beryl Headrick, 1951  
 Rogers, Cleaves L., 1949  
 Rogers, John, 1943-50

Rominger, Joseph F., 1942-44  
Ross, Clyde P., 1934-52 (3 files)  
Ross, Donald C., 1952  
Rothrock, Howard E., 1945-46  
Rove, Louis C., 1951-52  
Rove, Olaf N., 1947-52 (2 files)  
Rowse, William J., 1948-52  
Rubey, William W., 1942-44  
Rudberg, Theba, 1949-50  
Runner, J. J., 1942-49  
Ruppel, Edward T., 1948-52  
Russell, Robert T., 1942-47  
Ryan, John Donald, 1948-52  
Ryneckson, Garn A., 1942-51

S - Miscellaneous, 1948-52  
Sample, Raymond Dewey, 1943-52  
Sampson, Edward, 1943-45  
Schassberger, Herman T., 1949-52  
Scheid, Vernon E., 1943-52  
Schenck, Mildred C., 1951  
Schmidt, Robert G., 1951-52  
Schmitt, Harrison, 1942  
Schumacher, John I., 1948-51  
Schwartz, George M., 1944-52  
Scott, James B., 1951-52  
Scudder, George D., 1950-51  
Sears, Richard S., 1947-48  
Segerstrom, Kenneth, 1942  
Setzer, Carl L., 1948-49  
Shainin, Vincent E., 1948-51  
Shanks, Martha B., 1950-52  
Sharp, Bryon J., 1949-50  
Sharp, William N., 1949-52  
Shawe, Daniel R., 1951-52  
Sheldon, Eileen Bennett, 1949-52  
Sheldon, Richard P., 1949-52  
Shelton, John S., 1942-44  
Shelton, Richard C., 1947  
Shenon, Philip J., 1943-46 (3 files)  
Sheridan, Douglas M., 1947-52  
Shoemaker, Eugene M., 1948-52  
Shride, Andrew F., 1942-52 (2 files)  
Silver, Elizabeth, 1949  
Silver, Leon T., 1948-52  
Simmons, George C., 1950-52  
Sims, Paul K., 1948-52  
Singewald, Quentin D., 1941-52  
Smart, Ross A., 1949-52  
Smedley, Jack E., 1948-52  
Smith, Clay T., 1939-44

Smith, George I., 1952  
 Smith, J. Fred, 1951-52  
 Smith, Raymond J., 1951-52  
 Smith, Roscoe M., 1951-52  
 Smith, Ward C., 1938-52 (8 files)  
 Sobol, Harvey L., 1951-52  
 Sohn, I. Gregory, 1946-51  
 Sokoloff, V. P., 1947-52  
 Sorensen, Ruth K., 1948-50  
 Souder, Waren J., 1942  
 Sowers, George M., 1944-45  
 Spence, Franklin H., 1949-51  
 Staatz, Mortimer H., 1943-52  
 Stacy, John R., 1949-51  
 Stager, Harold K., 1948-51  
 Stagg, Bonnie M., 1951-52  
 Stead, Elinor F., 1949  
 Stead, Frank W., 1942-44  
 Steckler, F. Wayne, 1947  
 Stefansson, Karl, 1945  
 Stephens, Hal G., 1947-52  
 Stephenson, Edgar L., 1942-43  
 Steven, Thomas A., 1946-52  
 Stewart, Glenn W., 1945-52 (2 files)  
 Stewart, John H., 1951  
 Stewart, Robert H., 1948-52  
 Stieff, Lorin R., 1947-50  
 Still, Arthur R., 1949  
 Stoiber, Richard E., 1949-52  
 Stokes, William Lee, 1946-52  
 Stoll, Walter C., Jr., 1942-46 (2 files)  
 Stopper, Robert F., 1943-47 (2 files)  
 Stose, George W., 1940-41  
 Straczek, John A., 1940-45  
 Strange, Norma, 1951-52  
 Stringham, Bronson F., 1945-49  
 Strobell, John D., Jr., 1945-52  
 Stromquist, Arvid A., 1946-52 (2 files)  
 Strong, Richard, 1949  
 Stugard, Frederick, Jr., 1948-52  
 Sullwold, Harold H., 1942-44  
 Swanson, Roger W., 1943-52 (3 files)  
 Swinney, C. Melvin, 1942-52  
  
 T - Miscellaneous, 1949-52  
 Tandy, Charles W., 1949-51  
 Tatlock, Donald B., 1949-52  
 Teague, Kefton H., 1951-52  
 Thayer, Thomas P., 1939-52 (2 files)  
 Theisen, Mary M., 1949-51  
 Theobald, Paul K., Jr., 1951-52

Thomas, Leo A., 1948-50  
Thompson, George A., 1943-52  
Thompson, Richard R., 1951-52  
Thurston, Ralph H., 1948-52  
Thurston, William R., 1944-51 (2 files)  
Tillman, Chauncey G., 1950-52  
Tillman, John A., Jr., 1948-52  
Tolman, Carl A., 1942  
Tooker, Edwin W., 1949-52  
Trace, Robert D., 1948-51  
Trask, Parker D., 1940-51 (2 files)  
Trites, Albert F., Jr., 1945-52 (2 files)  
Trow, James W., 1949-52  
Tschanz, Charles M., 1949-52  
Tuttle, Sherwood D., 1948-49  
Tweto, Ogden, 1941-52

U - Miscellaneous, 1950-51

V - Miscellaneous, 1948-52  
Van Alstine, Ralph E., 1946-52  
Vanderwilt, John W., 1943-46  
Varnes, David J., 1945-48  
Vaughn, Richard H., 1950-51  
Vhay, Jihn S., 1942-52  
Vickers, Rollin C., 1951-52  
Vitaliano, Charles J., 1943-52

W - Miscellaneous, 1946-52  
Waage, Karl M., 1943-52  
Walker, George W., 1943-52  
Wallace, Robert E., 1949-52  
Wallace, Stewart R., 1948-52  
Warner, Lawrence A., 1948-52  
Warner, Maurice A., 1950-52  
Warren, Charles R., 1941  
Waters, Aaron C., 1943-52  
Wayland, Thomas E., 1948-52  
Weaver, Charles E., 1949-50  
Weeks, Robert A., 1947-52  
Weir, Gordon W., 1949-52  
Weiss, Paul L., 1949-52  
Weissenborn, A. E., 1947-52 (3 files)  
Welch, Phabian L., 1947-49  
Wells, Francis G., 1939-52 (4 files)  
West, Dorothy J., 1946-50  
White, Amos M., 1951-52  
White, Donald E., 1938-52 (4 files)  
White, George N., 1952  
White, Robert C., 1948-49  
White, Walter S., 1942-52 (2 files)

Whitebread, Donald H., 1952  
Whitlow, Jesse W., 1951-52  
Wileman, Frank L., 1948  
Wier, Kenneth L., 1949-51  
Wiese, John H., 1947  
Willard, Bradford, 1943  
Willard, Max E., 1942-52 (3 files)  
Willey, Emerson, C., 1948-52  
Williams, George A., 1951-52  
Williams, Lois P., 1949-53  
Williams, Marion J., 1949-52  
Williams, William P., 1951-52  
Wilmarth, Verl R., 1948-52  
Wilpolt, Ralph H., 1942  
Wilson, Ivan F., 1941-45  
Withington, Charles F., 1948-51  
Woodring, Wendell P., 1943-44  
Wright, Dorothy A., 1948-49  
Wright, Harold D., 1948-50  
Wright, James C., 1949-52  
Wright, Lauren A., 1942-47  
Wright, Robert J., 1942-47  
Wrucke, Chester T., 1951-52  
Wyant, Donald G., 1940-52 (2 files)  
  
XYZ - Miscellaneous, 1948-52  
Yates, Robert G., 1941-52  
Youngberg, Elton, A., 1951-52  
  
Zellar, Robert A., 1949-52

## Appendix 11

### Geologic Division - Geologists' Field Notebooks and related Records, 1867-1939 (entry 172)

Number	Compiler	Cover title or subject	Year(s)
1	E. Jacob	Preliminary notes on Fryer Hill mines	1879-80
2	E. Jacob	Leadville Geology - upper localities	1880
3	E. Jacob	Carbonate Hill notes	1880
4	E. Jacob	Leadville geology - general features	1880
5	E. Jacob	Miscellaneous mines and more important prospects	1880
6	E. Jacob	Fryer Hill - Carbonate Hill - Iron Hill	1880
7	E. Jacob	Fryer Hill notes	1880
8	E. Jacob	Geology of the Ten Mile District, Colorado	Jan. 1883
9	S. F. Emmons & E. Jacob	Catalogue of Leadville rock and ore collection	1880
17	E. Jacob	Leadville, notes on miscellaneous shafts and tunnels	1880
18	E. Jacob	Notes on geology of the Ten Mile Mining District	1881-82
19	E. Jacob	Geology of the Ten Mile District	1882-83
20	S. F. Emmons	Notes on mines, Ten Mile District	1882-83, 1887-88
21	S. F. Emmons	Leadville notes: Penrose-Gray, Eagle; Henriette-Maid-Wolfstone; Genegrod- R. A. M.; Shenango-Highland Mary; Ibox 2nd & 4th; Little Winnie, Lillian-Lovejoy; Graham Park, and Stray-Horse Park	1894, 1898
22	S. F. Emmons	Leadville mines, notes, assays, drawings	1894
23	S. F. Emmons	Leadville mine notes	n.d.
24	S. F. Emmons	Leadville notes; general notes on mines and geological routes	1888, 1890-95
25	S. F. Emmons	Leadville Notes No. 1, mostly chemical notes, with abstracts of articles on ore deposits - genetic and chemical	1881
26	J. E. Spurr	Leadville notes	1894
27	J. E. Spurr	Leadville notes	1894
28	S. F. Emmons	Western Excursion; International Congress of Geologists; Wayside notes; notes on mines at Leadville, Colorado; Aspen, Colorado; Butte, Montana; also Bush Tunnel	1891
29	Whitman Cross	Leadville notes	1890
30	S. F. Emmons	Leadville notes; Silver Cliff and Boulder; Fryer Hill; Iron Hill; Mike and Starr Region	1890
31	S. F. Emmons	Leadville Notes No. II - Dome, Printer Boy, Brece, North Iron, East Fryer, and Carbonate Hills; Ten Mile District	1890
32	S. F. Emmons	Leadville Notes No. III (list of mines)	1890
33	S. F. Emmons	Leadville Notes - Henriette, Maid, Mikado, Hussey, etc; Atlantic Co., Sellers, Mike and Star, Humbolt, R. A. M.	1890
34	S. F. Emmons	Leadville, Shaft Book III, general sections through shafts and mines	1890, 1891, 1894
35	S. F. Emmons	Leadville, South Sheet II	1890
36	S. F. Emmons	Leadville, Shaft Book I, North Sheet I	1890
37	S. F. Emmons	Leadville notes	1894
38	J. E. McCulloch	Leadville notes	1890
39	S. F. Emmons	Leadville notes - Leadville Flat, Carbonate Hill, East Fryer Hill, etc.	1894
40	S. F. Emmons	Leadville notes - California Gulch; Printer Boy Hill; Brece Hill; North Iron Hill; Carbonate Hill	1894
41	S. F. Emmons	Season of 1895 - Aspen, Colorado; Butte, Montana; Coeur d'Alene, Idaho; Idaho Basin, Idaho; Leadville, Colorado; Breckenridge, Colorado; Newlin Gulch, Colorado	1895
42	S. F. Emmons	Leadville notes No. 1, Bon Air; Bohn; A. V.; Midland; Penrose; Starr; Weldon; Cloud City; Midas; Down-town mines	1901
43	S. F. Emmons	Leadville notes, No. II, Coronado; Sixth Street; Toledo Avenue, Penrose, Starr, Northern Bison, Wolfons, Stevens, Whitecap, Montgomery claim, Bohn mine, Rose Emmett, Moyer Mine, D. H.	1901
44	S. F. Emmons	Leadville notes No. III, A. Y. & Minnie, Bruce and Little Ellen, Famous, Josie, Penn No. 1, Louise, Yak Tunnel, Resurrection, Ollie Read, Fryer Hill, Iowa Pass, Sedalia, S. Carbonate Hill, Sugarloaf District, Little Ellen, Cloud City, Mosquito Pass, South Winnie	1901
45	S. F. Emmons	Leadville notes No. IV, Adelaide Park, Black Prince, Penn No. 1, Carbonate Hill shafts, Doris shaft, D. H. No. 2, Big Six mines, Yak Tunnel, Ibox No. 2, Minneapolis, Fitzhugh shaft, Small Hopes, Adams	1901
46	S. F. Emmons	Leadville notes	1900
47	J. D. Irving	Leadville, General Notebook No. 1	1901
48	J. D. Irving	Leadville notes, General Notebook No. 2, Brease Hill mine, Empire Gulch (head); Notes on granite, Yale Tunnel (Mike winze)	1901
49	J. D. Irving	Leadville notes, memoranda	1901
50	J. D. Irving	Leadville, specimen list	1901

51	J. D. Irving	Leadville notes, Plan Book No. 1 (loaned to USGS)	1901
52	J. D. Irving	Leadville, Colorado - Plan and Traverse Book No. 4	1901
53	J. D. Irving	Leadville notes, Plan Book No. 3	1901-4
54	S. F. Emmons	Geological Map of west half of Leadville District, 1886; notes on Yankee Hill	1902
55	S. F. Emmons	Leadville notes No. 1	1902
56	S. F. Emmons	Leadville, Colorado - Reindeer, etc.	1904-7
57	J. D. Irving	Leadville notes No. 2, "Transit Book 336"	1907
58	J. D. Irving	Leadville notes, Section Book No. 1; Irving and Dyson Section Book No. 2	1901, 1907
59	J. D. Irving	Leadville - Black Hills, No. 1	1901
60	S. F. Emmons	Leadville notes, Section Book No. 1	1901
61	J. D. Irving	Leadville notes, Plan Book No. 2	1901
62	J. D. Irving	Leadville notes, June 15, 1910	1910
63	J. D. Irving	Season of 1913, Leadville, Colorado	1913
64	J. D. Irving	Season of 1913, Leadville, Colorado	1913
64-A	G. F. Loughlin	Leadville, Colorado, zinc notes	n.d.
64-B	G. F. Loughlin	Leadville, Colorado	1913, 1919, 1922
65	G. F. Loughlin	Preston Quadrangle, Connecticut	1901-5
66	G. F. Loughlin	Eastern Connecticut	1903, 1904, 1905
67	G. F. Loughlin	Tintic District, Utah	1911
68	G. F. Loughlin	Tintic District, Utah	1911
69	G. F. Loughlin	Erickson, Desert, Columbia, W. & N., Tintic Districts, Cottonwood Special, Utah	1912
70	G. F. Loughlin	Tintic Mining District, Utah, notes on Downtown mines and map of North Tintic Mining District	n.d.
71	G. F. Loughlin	East Tintic, Utah, maps, bibliography, and notes	n.d.
72	G. F. Loughlin	Tintic Mining District - contains maps of the Ballfinch mine, map and correspondence with the Dagmar Mining Co., blueprints of the Utah Apex Mining Co. at Bingham mines, and blueprints of the Eagle Eye Mining Co., mines of North Tintic Mining District (plus 2 loose maps)	n.d.
73	Loughlin, McCaskey	Marysville, Utah	n.d.
74	G. F. Loughlin	Utah	n.d.
75	G. F. Loughlin	Utah	1912
76	G. F. Loughlin	Utah; and stone resources, Connecticut and Massachusetts	1912-15
77	G. F. Loughlin	Idaho stone; Utah stone	n.d.
78	G. F. Loughlin	Stone in central States	1915
208	J. M. Hill	Black Hills National Forest, Notebook No. 1; Ouray, Montezuma, Medicine Bow, Pikes Peak, Chiricahua National Forests	1907-8
209	J. M. Hill	Salida Sheet, Colorado. Examination of Post Office Department on fraud order, and Pecos, Jemez, Taos, and Lincoln National Forests	1907-8
210	J. M. Hill	Examination of mining claims in National Forests; Notes on Economic Geology of S. E. Gunnison Co., Colorado	1908
211	J. M. Hill	Nogales and Patagonia, Arizona	1909
212	J. M. Hill	Nogales and Patagonia, Arizona	1909
213	J. M. Hill	Nogales and Patagonia, Arizona	1909
214	J. M. Hill	Sylvanite and Fremont Mining District, New Mexico (Economic Rec. of the Sylvanite and Fremont M. D. Grant Co., New Mexico, with claim map of Sylvanite)	1908
215	J. M. Hill	Olinghouse and Ramsey sheets. Examination of Buster mine and mineral classification of odd numbered sections in T21 & 22, R23, notes by E. M. D., P. M. for Department of Justice, accompanied by a claim map - White Horse or Olinghouse Mining District, Washoe County, Nevada	1910
216	J. M. Hill	La Sal Mountains, Utah	1910
217	J. M. Hill	Afterthought District, California (Examination of Afterthought Cooper Company's Mine for Post Office Department)	1911-32
269	F. L. Ransome	Sonora, California	1911
270	F. L. Ransome	Sonora, California	1895
271	F. L. Ransome	Big Trees Sheet, California	1896
272	F. L. Ransome	Mother Lode District, California	1897
273	F. L. Ransome	Mother Lode District, California	1897
274	F. L. Ransome	Mother Lode District, California	1897
274-A	F. L. Ransome	Bibliography notes, various subjects; (miscellaneous 4 in. x 6 in. cards)	n.d.
275	F. L. Ransome	Mother Lode District, California. Bundle of notes by Ransome on loose folded sheets	1897
275-A	F. L. Ransome	Native Iron in the Eruptive Rocks - investigation of thin sections	1897
276	F. L. Ransome	Mother Lode District, California	1898
276-A	F. L. Ransome	Connecticut Valley; Southern California; Brookville, New Jersey	1897-99
277	F. L. Ransome	Mother Lode District, California	1898
280-A	F. L. Ransome	Paradox Quadrangle, Colorado	1899
283	F. L. Ransome	Rico District, Colorado	1900
284	F. L. Ransome	Rico District, Colorado	1900
285	F. L. Ransome	Rico District, Colorado, field maps	1900
286	G. W. Tower	Rico District, Colorado, abstract of Tower's notes on Rico mines	1900
286-A	F. L. Ransome	Gilpin Co., Colorado	1900
287	F. L. Ransome	Globe District, Arizona	1901-2

288	F. L. Ransome	Globe District, Arizona	1901-2
289	F. L. Ransome	Globe District, Arizona	1901-2
290	J. D. Irving	Globe District, Arizona	1901-2
291	J. D. Irving	Globe District, Arizona	1901-2
292	F. L. Ransome	Globe District, Arizona	1901-2
293	F. L. Ransome	Globe Quadrangle, Arizona (field maps by J. D. Irving)	1901-2
294	F. L. Ransome	Globe Quadrangle, Arizona	1901-2
295	F. L. Ransome	Bisbee, Arizona	1902
296	F. L. Ransome	Bisbee Quadrangle, Arizona	1902
297	F. L. Ransome	Bisbee Quadrangle, Arizona	1902
298	J. Morgan Clements	Bisbee Quadrangle, Arizona	1902
299	J. Morgan Clements	Bisbee Quadrangle, Arizona	1902
300	J. Morgan Clements	Bisbee Quadrangle, Arizona	1902
301	J. Morgan Clements	Bisbee Quadrangle, Arizona	1902
302	F. L. Ransome	Bisbee Quadrangle, Arizona (field maps)	1902
303	F. L. Ransome	Bisbee Quadrangle, Arizona (field maps)	1902
304	F. L. Ransome	Bisbee Quadrangle, Arizona (field maps)	1902
305	F. L. Ransome	Bisbee Quadrangle, Arizona (field maps by J. Morgan Clements)	1902
306	F. L. Ransome	Cripple Creek, Colorado	1903-4
307	F. L. Ransome	Cripple Creek, Colorado	1903-4
308	F. L. Ransome	Cripple Creek, Colorado	1903-4
309	F. L. Ransome	Cripple Creek, Colorado	1903-4
310	F. L. Ransome	Cripple Creek, Colorado	1903-4
311	F. L. Ransome	Cripple Creek, Colorado	1903-4
312	F. L. Ransome	Cripple Creek, Colorado	1903-4
313	F. L. Ransome	Package of 3 in. x 5 in. index cards, apparently to notebooks of Ransome on the Cripple Creek District, Colorado	1903-4
314	F. L. Ransome	Coeur d'Alene District, Idaho	1903-4
315	F. L. Ransome	Coeur d'Alene District, Idaho	1903-4
316	F. L. Ransome	Coeur d'Alene District, Idaho	1903-4
317	F. L. Ransome	Coeur d'Alene District, Idaho	1903-4
317-A	Edward R. Zalinski	Coeur d'Alene District, Idaho, mill notes	1904
318	Edward R. Zalinski	Coeur d'Alene District, Idaho	1904
319	F. L. Ransome	Bullfrog District, Nevada	1906
319-A	F. L. Ransome	Searchlight and El Dorado, Nevada, Reconnaissance	1906
320	F. L. Ransome	Bullfrog District, Nevada	1908
321	F. L. Ransome	Bullfrog District, Nevada	1905-6
322	F. L. Ransome	Bullfrog District, Nevada	1906
322-A	G. H. Garrey	Bullfrog District, Nevada	1906
323	F. L. Ransome	Goldfield District, Nevada	1905
324	F. L. Ransome	Goldfield District, Nevada	1905
325	F. L. Ransome	Goldfield District, Nevada	1905
326	F. L. Ransome	Goldfield District, Nevada	1908
327	F. L. Ransome	Goldfield District, Nevada	1908
327-A	F. L. Ransome	Nevada - Reconnaissance	1908
328	W. H. Emmons	Goldfield District, Nevada	1905
329	W. H. Emmons	Goldfield District, Nevada	1905
330	G. H. Garrey	Goldfield District, Nevada	1905
331	G. H. Garrey	Goldfield District, Nevada	1905
331-B	F. L. Ransome	Goldfield District, Nevada (3 in. x 5 in. index cards)	1905
332	F. L. Ransome	Breckenridge District, Colorado	1908
333	E. S. Bastin	Breckenridge District, Colorado	1909
334	F. L. Ransome	Breckenridge District, Colorado	1909
335	F. L. Ransome	Breckenridge District, Colorado	1909
336	F. L. Ransome	Breckenridge District, Colorado	1909
337	F. L. Ransome	Breckenridge District, Colorado. Maps with geologic notes	1909
no#	[Ransome]	Maps showing a projected railway from Belize, British Honduras to S. Jose, Guatemala, ca. 1890 (a note with the map states that it was found with Ransome's books)	
437-A	Whitman Cross	Pikes Peak District, Colorado, sandstone dikes and sedimentary formations	1893
437-B	E. B. Mathews	Pikes Peak District, Colorado	1893
437-C	E. B. Mathews	Pikes Peak District, Colorado	1893
438	Whitman Cross	San Juan District, Colorado	1894
438-A	Whitman Cross	Pikes Peak District, Colorado	1893
438-B	Whitman Cross	Pikes Peak District, Colorado	1893
438-C	Whitman Cross	Cripple Creek, Pikes Peak District, Colorado	1893
438-D	Whitman Cross	Pikes Peak District, Colorado	1893
438-E	Whitman Cross	Pikes Peak District, Colorado	1893
438-F	Whitman Cross	Pikes Peak District, Colorado	1893
438-G	E. B. Mathews	Pikes Peak District, Colorado	1893
438-H	E. B. Mathews	Pikes Peak, Colorado; petrographic notes; notes on granite	1893-94
439	E. B. Mathews	San Juan District, Colorado	1894
439-A	Whitman Cross	Silver Cliff-Rosita Hills, Colorado, petrographic notes	1882-85
439-B	Whitman Cross	Silver Cliff-Rosita Hills, Colorado, petrographic notes	1882-84
439-C	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1883-84
439-D	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1883-84
439-E	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1888

439-F	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1888
439-G	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1888
439-H	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1890
439-I	Whitman Cross	Silver Cliff-Rosita Hills, Colorado	1894
439-J	Whitman Cross	Silver Cliff-Rosita Hills, Colorado, folded field maps	n.d.
439-K	Whitman Cross	Cripple Creek, Colorado	1894
439-L	Whitman Cross	Cripple Creek, Colorado	1894
440	Whitman Cross	Telluride Quadrangle, Colorado	1895
441	Whitman Cross	Telluride Quadrangle, Colorado	1895
442	Whitman Cross	Telluride Quadrangle, Colorado	1895
443	H. S. Gane	Telluride Quadrangle, Colorado	1895
444	E. C. E. Lord	Telluride Quadrangle, Colorado	1895
445	Whitman Cross	Telluride Quadrangle, Colorado	1896
446	A. C. Spencer	Telluride Quadrangle, Colorado	1896
447	Whitman Cross	La Plata Quadrangle, Colorado	1896
448	Whitman Cross	La Plata Quadrangle, Colorado	1896
449	Whitman Cross	La Plata Quadrangle, Colorado	1896
450	Whitman Cross	La Plata Quadrangle, Colorado	1896
451	H. S. Gane	La Plata and Durango Quadrangles, Colorado	1896
452	A. C. Spencer	Durango Quadrangle, Colorado	1896
453	Whitman Cross	La Plata Quadrangle, Colorado	1897
454	Whitman Cross	La Plata Quadrangle, Colorado	1897
455	Whitman Cross	Durango Quadrangle, Colorado	1897
456	Whitman Cross	Durango Quadrangle, Colorado	1897
457	Whitman Cross	Rico Quadrangle, Colorado	1897
459	A. C. Spencer	Durango Quadrangle, Colorado	1897
460	A. C. Spencer	La Plata Quadrangle, Colorado	1897
461	A. C. Spencer	Rico Quadrangle, Colorado	1897
462	A. C. Spencer	San Juan District, Colorado	1897-99
463	John D. Irving	Rico, LaPlata, and Durango Quadrangles, Colorado	1897
464	John D. Irving	Rico Quadrangle, Colorado	1897
465	W. T. Lee	La Plata and Durango Quadrangles, Colorado	1897
466	Whitman Cross	Silverton and Engineer Mt. Quadrangles, Colorado	1898
467	Whitman Cross	Rico Quadrangle, Colorado	1898
468	Whitman Cross	Rico Quadrangle, Colorado	1898
469	Whitman Cross	Rico Quadrangle, Colorado	1898
470	Whitman Cross	Rico Quadrangle, Colorado	1898
471	Whitman Cross	Durango Quadrangle, Colorado	1898
472	A. C. Spencer	Rico Quadrangle, Colorado	1898
473	A. C. Spencer	Rico Quadrangle, Colorado	1898
473-A	A. C. Spencer	Rico Quadrangle, Colorado	1898
474	A. C. Spencer	Silverton and Engineer Mt. Quadrangles, Colorado	1898
475	A. C. Spencer	Durango Quadrangle, Colorado	1898
476	A. C. Spencer	Durango Quadrangle, Colorado	1898
477	Ernest Howe	Engineer Mt., and Silverton Quadrangles, Colorado	1898
478	Whitman Cross	Silverton Quadrangle, Colorado	1899
479	Whitman Cross	Silverton and Ouray Quadrangles, Colorado	1899
480	Whitman Cross	Rico Special Quadrangle, Colorado	1899
481	A. C. Spencer	Silverton Quadrangle, Colorado	1899
482	A. C. Spencer	Rico Special Quadrangle, Colorado	1899
483	A. C. Spencer	San Juan District, Colorado, mainly Pine River Valley	1899
484	A. C. Spencer	Western Colorado District	1899
485	Ernest Howe	Silverton Quadrangle, Colorado	1899
486	Whitman Cross	Silverton Quadrangle, Colorado	1900
487	Whitman Cross	Silverton Quadrangle, Colorado	1900
488	Whitman Cross	Silverton Quadrangle, Colorado	1900
489	Ernest Howe	Needle Mts., Silverton, and Engineer Mt. Quadrangles, Colorado	1900
490	Ernest Howe	Animas Canyon District, Colorado	1900
491	G. W. Stose	Engineer Mt., Needle Mts., and Silverton Quadrangles, Colorado	1900
492	G. H. Girty	Engineer Mt. Quadrangle and Needle Mts., Colorado	1900
493	Whitman Cross	San Juan Valley, reconnaissance on New Mexico and Colorado	1901
494	Whitman Cross	Silverton Quadrangle, Colorado	1901
495	Whitman Cross	Silverton Quadrangle, Colorado	1901
496	Whitman Cross	Needle Mountains Quadrangle, Colorado	1901
497	Whitman Cross	Gunnison Valley, Colorado, examination of proposed route for Gunnison-Uncompaghere tunnel	1901
498	Ernest Howe	Silverton Quadrangle, Colorado	1901, 1903
499	Ernest Howe	Needle Mountains Quadrangle, Colorado	1901
500	Ernest Howe	Lower Animas Valley	1901
501	J. M. Clements	Silverton Quadrangle, Colorado	1901
502	J. M. Clements	Silverton Quadrangle, Colorado	1901
503	J. M. Clements	Silverton Quadrangle, Colorado	1901
504	J. M. Clements	Silverton Quadrangle, Colorado	1901
505	J. M. Clements	Needle Mountains Quadrangle, Colorado	1901
507	Whitman Cross	Needle Mountains Quadrangle, Colorado	1903
508	Whitman Cross	Needle Mountains Quadrangle, Colorado	1903
509	Whitman Cross	Engineer Mountains Quadrangle, Colorado	1903-4

510	Ernest Howe	Needle Mountains Quadrangle, Colorado	1903
511	Ernest Howe	Needle Mountains Quadrangle, Colorado	1903
512	Ernest Howe	Engineer Mt. Quadrangle, Colorado	1903
513	Albert Johannsen	Needle Mountains Quadrangle, Colorado	1903
514	Albert Johannsen	Needle Mountains Quadrangle, Colorado	1903
515	Albert Johannsen	Engineer Mountains Quadrangle, Colorado	1903
516-A	Whitman Cross	Ouray Quadrangle, Colorado, tracing of American Nettie mine	1904
524	W. H. Emmons	Rico Quadrangle	1904
525	W. H. Emmons	Durango Quadrangle, Division of Red Beds	1904
527	Whitman Cross	Reconnaissance of western Colorado	1905
528	L. H. Woolsey	Same as No. 527	1905
529	George F. Kay	Same as No. 527	1905
530	W. H. Emmons	Same as No. 527	1905
544	Whitman Cross	Providence, R. I.	1904
545	Whitman Cross	Engineer Mt. Quadrangle, Colorado	1906
546	Albert Johannsen	Engineer Mt. Quadrangle, Colorado	1906
547	M. K. Shaler	Engineer Mt. Quadrangle, Colorado	1906
548	G. I. Finlay	Engineer Mt. Quadrangle, Colorado	1906
554	Whitman Cross	Highwood Mountains, Montana	1904
555	Whitman Cross	Miscellaneous	1894, 1901
557	Whitman Cross	Engineer Mt. and Durango Quadrangles	1908
558	Howland Bancroft	Engineer Mt. Quadrangle, Colorado	1908
559	Whitman Cross	San Juan Region, Colorado, "question book"	1908
560	Whitman Cross	Georgetown, Middle Park, Salida, and Del Norte, Colorado	1891
561	Whitman Cross	Various districts, Colorado	1890
561-A	Whitman Cross	Mosquito Range, Colorado, east of Leadville	1880
561-B	Whitman Cross	Leadville and Mosquito Range, Colorado	1880-81
561-C	Whitman Cross	Leadville and Mosquito Range, Colorado [missing]	1880-81
561-D	Whitman Cross	Denver Basin, Colorado (Golden area)	1881-85
561-E	Whitman Cross	Denver Basin, Colorado	1881-87
561-F	Whitman Cross	Denver Basin, Colorado	1887
561-G	Whitman Cross	Denver Basin, Colorado [missing]	1881-87
755	J. M. Hill	Afterthought Copper Co., Shasta, California, "Typewritten report on the Afterthought Copper Co."	1911
756	J. M. Hill	Report on Six Lode Claims, by the Manhattan Development Co., Cochise County, Arizona	1908
757	J. M. Hill	Report on Cuba No. 1, and 42 other lode claims of the Colorado Smelting and Mining Co., situated in the Gunnison County National Forest, Gunnison County, Colorado	1908
758	J. M. Hill	Report on 24 claims located by John Garcia conveyed to Eagle Mining and Improvement Company, Lincoln National Forest, Lincoln County, New Mexico	1908
759	J. M. Hill	Report on the Florence and Olive Lode claims, Leadville National Forest, and Consolidated Mining District, Park County, Colorado	1908
760	J. M. Hill	Report on Bob and Bun Lode Claim, Leadville National Forest, Mosquito Mining District - Lake County, Colorado	1908
761	J. M. Hill	Report of the Castle Grand Placer, located in the La Salle National Forest, Miners Basin Mining District - Grand Co., Utah	1908
762	J. M. Hill	Report on the Honestake Placer located by Peter and R. S. Lynch on the Holy Cross Mining District, Holy Cross National Forest, Eagle County, Colorado	1908
763	J. M. Hill	Report on the Huff Gulch Placer, located by Cooper Anderson in the Montezuma National Forest, Lower San Miguel Mining District, San Miguel County, Colorado	1908
764	J. M. Hill	Report on the 8 placer claims controlled by the Telluride Land and Lumber Company situated in Montezuma National Forest, San Miguel County, Colorado	1908
765	J. M. Hill	Report on the Consolidated Bull Run, Mogul, and Big Springs placers located in the Ozark National Forest, Baxter County, Arkansas	1908
766	J. M. Hill	Report on the Four-Lode claims located by Peter Barth in the James National Forest, Bronide Mining District, Rio Arriba County, New Mexico	1908
767	J. M. Hill	Report on the 4 placer claims and 2 lode claims located by the Pecos Copper Co., in the Pecos River National Forest. Copper mining district, San Miguel Co., New Mexico	1908
768	J. M. Hill	Report on the Asiatic placers 1, 2, 3, and 4, located in the Rio Grande National Forest, Conejos County, Colorado	1908
769	J. M. Hill	Report on the Bitter Creek placer located by A. D. Hawk in the Red River Mining District, Taos National Forest, Taos County, New Mexico	1908
770	J. M. Hill	Report on the Briggs placer located by G. Cusdorf, and others in the Rio Hord Mining District, Taos National Forest, Taos County, New Mexico	1908
771	J. M. Hill	Report on the Buffalo placer located in the Teton National Forest, Uinta County, Wyoming	1908
772	J. M. Hill	Report on the Uinta placer located in Teton National Forest, Uinta County, Wyoming	1908
773	J. M. Hill	Report on a placer claim located by W. F. Cunningham in the Teton National Forest, Uinta County, Wyoming	1908

774	J. M. Hill	Report on the Pine Tree placer located by Emil Wolf in the Teton National Forest, Uinta County, Wyoming	1908
776	J. M. Hill	Report on Bob and Bun Lode Claims, Leadville National Forest, Mosquito Mining District, Lake County, Colorado [missing]	1908
935	F. P. Gulliver	Nepesta and Apishapa, Colorado	1894
936	G. K. Gilbert	Apishapa and Nepesta, Pueblo, Colorado	1894
937	G. K. Gilbert	Apishapa, Colorado	1894
938	G. K. Gilbert	Apishapa, Colorado	1894-1904
939	G. K. Gilbert	Apishapa, Colorado, original field maps; Pueblo fossil list	1894-1905
940	G. K. Gilbert	Apishapa, Colorado; report on analyses of water, clay, fire tests, and reports of fossils	1895
1072	J. M. Boutwell	Clifton, Arizona	1901-2
1108	S. F. Emmons	"Fortieth Parallel Survey"	1867-72
1109	S. F. Emmons	"Fortieth Parallel Survey," geological field notes [missing]	1871-72
1110	S. F. Emmons	Mining Districts of California and Nevada, mine notes [missing]	1867-68
1111	S. F. Emmons	North Humboldt and Elkhead trips, sketches	1872
1112	S. F. Emmons	Salt Lake Region, sketches	1872
1113	S. F. Emmons	Original draft of "Diamond Frauds" (two envelopes)	1877-80
1114	S. F. Emmons	Mosquito Range (Leadville, Colorado)	1880
1115	S. F. Emmons	Mosquito Range (Leadville, Colorado)	1880
1116	S. F. Emmons	Mosquito Range (Leadville, Colorado)	1880
1117	S. F. Emmons	Mosquito Range (Leadville, Colorado)	1880
1118	A. Lakes	Mosquito Range (Leadville, Colorado)	1880
1119	A. Lakes	Mosquito Range (Leadville, Colorado)	1880
1120	S. F. Emmons	Leadville District	1880
1121	S. F. Emmons	Leadville District	1880
1122	S. F. Emmons	Leadville District	1881
1124	S. F. Emmons	Leadville District, Colorado	n.d.
1125	S. F. Emmons	Leadville District, Colorado	n.d.
1126	S. F. Emmons	"Original geological maps and drawings of the Leadville District"	1880
1127	S. F. Emmons	Ten Mile, Gunnison and Aspen Quadrangles, Colorado	1882, 1887
1128	S. F. Emmons	Silver Cliff District, Colorado	1883
1129	Eakins, Cross, Emmons	Silver Cliff, Rosita, Querida Quadrangles, Colorado	1882-84, 1902, 1905
1130	S. F. Emmons	General notes on geological routes and mines, Colorado	1886-88
1131	Sherman G. Sackett	Silver Cliff, Colorado, mills and smelters	1884
1132	S. F. Emmons	Black Hills (Homestake), S. Dakota and Los Pilaes mine, Montezuma District, near Nacozari, Mexico	ca. 1891-1905
1133	S. F. Emmons	Pyrite mines of Virginia, Nova Scotia gold mines, and Homestake production, South Dakota	1902
1134	S. F. Emmons	Pyrite mines, Louisa County, Virginia	1902
1135	S. F. Emmons	Gunnison Region, Colorado	1884
1136	S. F. Emmons	Durance to Ouray, San Juan Co., Colorado. Wayside geological notes	1886
1137	S. F. Emmons	Pueblo to Durango and Riverside to Ouray	1886
1138	S. F. Emmons	Aspen, Irwin, Canon City, Kokomo, Silver Cliff and Breckenridge, Colorado	1887
1139	S. F. Emmons	Maryland, Virginia, and Illinois, notes on mines	1890
1140	S. F. Emmons	Lower California	1893
1141	S. F. Emmons	Lower California (onyx)	1893
1142	S. F. Emmons	Leadville, Silver Cliff, Cripple Creek and Breckenridge, Colorado; Mercus and Tintie, Utah	1894-95
1143	S. F. Emmons	Tintie District, Park City, Bingham, Utah. Field notes	1897
1144	S. F. Emmons	Western Maryland, Russia, Caucasus, Black Sea, Crimea	1897
1145	S. F. Emmons	Isthmus of Panama, Peruvian Coast, Acari mines, Oroya Railroad	1897
1146	S. F. Emmons	Black Hills, South Dakota; Mt. Stuart region, Washington; Keswick and Cross Valley, California	1898
1147	S. F. Emmons	Ash Fork, Prescott, Jerome, Big Bug, Phoenix, Bisbee, Globe, Black Warrior, Morenci, Metcalf, Coronado, Mt. Clifton mines, Arizona	1898
1148	S. F. Emmons	Silver City, Pinos, Altos, Hanover, Santa Rita, Burro Mountains, Cook's Peak, New Mexico; Idaho Springs, Central, Leadville, Yak County, Colorado	1898
1149	S. F. Emmons	Unawap, Rico, Silverton, and Cripple Creek, Colorado	1899
1151	S. F. Emmons	Grand Encampment, Wyoming; Bingham, and Wasatch Quadrangles, Utah	1901
1152	S. F. Emmons	Miscellaneous notes - Arizona, Colorado, Nevada, Mexico, Germany	1901-2
1153	S. F. Emmons	Mines of Colorado, Wyoming and Utah	1902
1155	S. F. Emmons	British Columbia, Nevada, Utah, Mexico; Contents: catalog and description of thin-sections and rock specimens	1900
1156	S. F. Emmons	European mines and others, Utah and Europe	1902-5
1159	S. F. Emmons	Colorado, Utah, Idaho, Oregon, and Cuba	1904
1160	S. F. Emmons	Oregon, California, Arizona, New Mexico	1904
1161	S. F. Emmons	Colorado, Utah and Arizona, notes on stock in various companies	1905
1164	S. F. Emmons	Mines of various States	n.d.
1165	S. F. Emmons	Three Forks sheet, Montana	n.d.
1167	A. M. Rock	Park City Mining District, Utah	1903
1168	J. M. Boutwell	Park City Mining District, Utah	1903
1169	J. M. Boutwell	Park City Mining District, Utah	1903
1170	J. M. Boutwell	Park City Mining District, Utah	1904
1171	J. D. Irving	Black Hills Region, South Dakota	1899

1172	J. D. Irving	Black Hills Region, South Dakota	1899
1173	J. D. Irving	Black Hills Region, South Dakota	1899
1174	J. D. Irving	Black Hills Region, South Dakota	1899
1175	G. W. Tower	Rico Quadrangle, Colorado	1898
1176	G. W. Tower	Rico Quadrangle, Colorado	1898
1177	G. W. Tower	Rico Quadrangle, Colorado	1898
1178	G. W. Tower	Rico Quadrangle, Colorado	1898
1179	G. W. Tower	Deadwood, South Dakota	1898
1180	G. W. Tower	Deadwood, South Dakota	1898
1181	G. W. Tower	Tintic Quadrangle, Utah	1897
1182	G. W. Tower	Tintic Quadrangle, Utah	1897
1183	G. W. Tower	Tintic Quadrangle, Utah	1897
1184	G. W. Tower	Tintic Quadrangle, Utah	1897
1185	G. W. Tower	Tintic Quadrangle, Utah	1897
1186	G. W. Tower	Tintic Quadrangle, Utah	1897
1187	G. W. Tower	Microscopic notes on rocks from Tintic, Utah	1897
1187-A	S. F. Emmons	Butte, Montana (with correspondence, 1891-1904)	1896
1443	J. M. Hill	Hawthorne Quadrangle, Nevada, notes with maps	1912
1444	J. M. Hill	Altures Sheet, California	1912
1445	J. M. Hill	Ivanpah Triangle, Yellow Pine District, Nevada	1912
1446	J. M. Hill	Wellington, Markleville, Reno, and Granite Range Quadrangles, Nevada	1912
1447	J. M. Hill	Lander County Quadrangle, Nevada	1912
1457	Whitman Cross	Gunnison Region, Colorado	1890
1457-A	Whitman Cross	Anthracite - Crested Butte, Colorado	1885
1457-B	Whitman Cross	Crested Butte, Colorado	1885
1457-C	Whitman Cross	Crested Butte, Colorado	1885
1457-D	Whitman Cross	Crested Butte, Colorado	1887
1457-E	Whitman Cross	Anthracite, Colorado	1887
1457-F	Whitman Cross	Anthracite, Colorado	1887
1457-G	Whitman Cross	Anthracite - Crested Butte, Colorado	1887
1457-H	Whitman Cross	Anthracite, Colorado	1890
1457-I	Whitman Cross	Anthracite - Crested Butte, Colorado	1887
1466	J. F. Hunter	Miscellaneous and Gunnison Canyon, Colorado	1911-12
1470	J. E. Spurr	Georgetown Quadrangle, Colorado, Field maps	1904
1471	J. E. Spurr	Georgetown Quadrangle, Colorado, Field maps	1904
1472	J. E. Spurr	Georgetown Quadrangle, Colorado, Field maps	1904
1473	J. E. Spurr	Georgetown, Colorado	1904
1474	J. E. Spurr	Georgetown, Colorado	1904
1475	J. E. Spurr	Silver Plume Special Quadrangle, Colorado	1904
1476	J. E. Spurr	Silver Plume Special Quadrangle, Colorado	1904
1477	J. E. Spurr	Silver Plume Special, Colorado	1904
1478	J. E. Spurr	Central City, Colorado. Map Book No. 1	1904
1479	G. H. Garrey	Georgetown Quadrangle, Colorado	1904
1480	G. H. Garrey	Silver Plume Special, Colorado	1904
1481	G. H. Garrey	Silver Plume Special, Colorado	1904
1482	G. H. Garrey	Silver Plume Special, Colorado	1904
1483	G. H. Garrey	Silver Plume Special, Colorado	1904
1484	G. H. Garrey	Silver Plume Special, Colorado	1904
1486	G. H. Garrey	Idaho Springs Special, Colorado	1905
1487	G. H. Garrey	Idaho Springs Special, Colorado	1905
1488	G. H. Garrey	Idaho Springs Special, Colorado	1905
1620	W. H. Emmons	Manhattan Quadrangle, Nevada	1906
1621	W. H. Emmons	Bullfrog Special Quadrangle, Nevada	1905-6
1622	W. H. Emmons	Bullfrog Special Quadrangle, Nevada	1905-6
1623	W. H. Emmons	Bullfrog Special Quadrangle, Nevada	1905-6
1798	J. M. Hill	Phillipsburg, Dillon, Helena Quadrangles, Montana, maps with notes	1913
1847	F. L. Ransome	Northwest Boundary Reconnaissance, Port Hill, Idaho to Lake Osyoos, Washington	1901
1848	F. L. Ransome	Northwest Boundary Reconnaissance	1901
1849	W. J. Sinclair	Northwest Boundary Reconnaissance	1901
1850	W. J. Sinclair	Northwest Boundary Reconnaissance	1901
1851	F. L. Ransome	Northwest Boundary Reconnaissance. Catalog of collection of rocks from a strip approximately 10 miles wide along the Northwest Boundary between Port Hill, Idaho, and Lake Osyoos, Washington	1901
1862	S. F. Emmons	"Survey Correspondence" (letters to S. F. Emmons, including plats)	ca. 1880-84
1863	S. F. Emmons and others	Miscellaneous manuscripts and maps	ca. 1890
1864	S. F. Emmons	Ten Mile District, Colorado, "Typewritten manuscript on the 10-mile district and notes on gold on Colorado"	n.d.
1898-I	--	Black Hills (Deadwood, Sturgis, etc.), California, Keswick Great Valley, Mt. Pleasant [missing]	n.d.
1904	F. L. Ransome	Card catalogue describing thin sections from the Gold Field District, Nevada	n.d.
1905	F. L. Ransome	Notes on thin sections from the Globe Quadrangle, Arizona	1902-3
1906	F. L. Ransome	Card catalogue of thin sections from the Bisbee District, Arizona	1902
1907	F. L. Ransome	Card catalogue of thin sections from Coeur d'Alene, Idaho	1903-4
1908	F. L. Ransome	Rice, Colorado. Notes on thin sections	1900

1910	F. L. Ransome	Card catalogue of rock specimens and thin sections from the Breckenridge District, Colorado	1908-9
1911	G. W. Tower	Microscopic notes on rocks from the Acari mines, Peru, South America	n.d.
1911-A	S. F. Emmons	Ducktown, Tennessee	1909
1942	J. M. Hill	Mt. Trumbull, Arizona	1914
1943	J. M. Hill	St. James, Nevada	1914
1944	J. M. Hill	Economic reconnaissance, Elko County, Nevada	1914
1945	J. M. Hill	Economic reconnaissance, Lander County, Ravenwood District, Nevada	1914
1946	J. M. Hill	Economic reconnaissance, Atlantic, Bristol and Patterson Districts, Nevada	1914
1947	J. M. Hill	Economic reconnaissance, Nye County, and Troy, Iron Canyon, Willow Creek Districts, Nevada	1914
1948	J. M. Hill	Economic reconnaissance, White Pine County, Nevada	1914
1949	E. S. Bastin, J. M. Hill	Mine notes, Central City, Colorado	1910-12
1950	Bastin & Hill	Mine notes, Central City, Colorado	1910-12
1951	Bastin & Hill	Mine notes, Central City, Colorado	1910-12
1952	Bastin & Hill	Mine notes, Central City, Colorado	1910-12
1953	Bastin & Hill	Mine notes, Central City, Colorado	1910-12
2369	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2370	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2371	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2372	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2373	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2374	J. E. Spurr	Aspen Quadrangle, Colorado	1895
2375	J. E. Spurr	Aspen Quadrangle, Colorado, notes on 4 in. x 6 in. cards	1895
2376	J. E. Spurr	Aspen Quadrangle, Colorado, analyses	1895
2377	G. W. Tower	Aspen, Colorado	1895
2378	G. W. Tower	Aspen, Colorado	1895
2379	G. W. Tower	Aspen, Colorado	1895
2380	G. W. Tower	Aspen, Colorado	1895
2381	G. W. Tower	Aspen, Colorado	1895
2382	G. W. Tower	Aspen Quadrangle, Colorado, topographical maps	1895
2383	G. W. Tower	Aspen Quadrangle, Colorado, mine maps	1895
2384	G. W. Tower	Aspen Quadrangle, Colorado, mine maps	1895
2385	J. E. Spurr	Nevada District, Nevada	1899
2386	J. E. Spurr	Nevada and California	1899
2387	J. E. Spurr	Nevada and California	1899
2388	J. E. Spurr	Nevada and California	1899
2389	J. E. Spurr	Nevada and California	1899
2390	J. E. Spurr	Nevada and California	1899
2391	J. E. Spurr	Nevada and California	1899
2392	J. E. Spurr	Nevada and California	1899
2393	J. E. Spurr	Nevada and California	1899
2393-A	J. E. Spurr	Nevada District, South of 40th parallel - 4 1/2 in. x 6 1/2 in. cards	n.d.
2393-B	J. E. Spurr	Notes on photographs, Nevada and California	1899
2395	J. E. Spurr	Silver Peak, Nevada	1893
2396	J. E. Spurr	Silver Peak District, Nevada	1903
2397	J. E. Spurr	Silver Peak District, Nevada	1903
2398	J. E. Spurr	Silver Peak District, Nevada, catalog of rocks	1903
2399	J. E. Spurr	Silver Peak District, Nevada, catalog of rocks	1903
2402	J. E. Spurr	Monte Cristo District, Washington	1900
2403	J. E. Spurr	Monte Cristo District, Washington	1900
2404	J. E. Spurr	Monte Cristo, Washington	1900
2405	J. E. Spurr	Monte Cristo, Washington	1900
2408	J. E. Spurr	Mercur District, Utah	1893
2409	J. E. Spurr	Mercur District, Utah	1894
2410	J. E. Spurr	Mercur District, Utah	1893
2411	J. E. Spurr	Mercur District, Utah	1893
2415	J. E. Spurr	Encampment, Carbon County, Wyoming	1902
2416	J. E. Spurr	Encampment, Carbon County, Wyoming	1902
2417	J. E. Spurr	Encampment, Carbon County, Wyoming	1902
2949	J. M. Hill	Fort Hall, Indian Reservation, Idaho	1914
3363	G. K. Gilbert	The Great Lakes, Ohio, Michigan, Pennsylvania and New York, index to notebooks	1869-70
3364	G. K. Gilbert	State Geological Survey of Ohio	1869-70
3365	G. K. Gilbert	State Geological Survey of Ohio	1869-70
3366	G. K. Gilbert	State Geological Survey of Ohio	1869-70
3367	G. K. Gilbert	State Geological Survey of Ohio	1869-70
3368	G. K. Gilbert	State Geological Survey of Ohio	1869-70
3369	G. K. Gilbert	Cahoos, New York	1868
3370	G. K. Gilbert	Cahoos, New York	1870
3371	G. K. Gilbert	Cahoos, New York	1868
3372	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3373	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3374	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3375	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3376	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871

3377	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3378	G. K. Gilbert	"Wheeler Expedition," Nevada and Arizona	1871
3379	G. K. Gilbert	"Wheeler Expedition"	1872
3380	G. K. Gilbert	"Wheeler Expedition"	1872
3381	G. K. Gilbert	"Wheeler Expedition"	1872
3382	G. K. Gilbert	"Wheeler Expedition"	1872
3383	G. K. Gilbert	"Wheeler Expedition"	1872
3384	G. K. Gilbert	"Wheeler Expedition"	1873
3385	G. K. Gilbert	"Wheeler Expedition"	1873
3386	G. K. Gilbert	"Wheeler Expedition"	1873
3387	G. K. Gilbert	"Wheeler Expedition"	1873
3388	G. K. Gilbert	"Wheeler Expedition"	1873
3389	G. K. Gilbert	Indexes to "Wheeler Expedition" notebooks	1873
3390	G. K. Gilbert	Indexes to "Wheeler Expedition" notebooks	1871-72
3391	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey"	1875-76
3392	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3393	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3394	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3395	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3396	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3397	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3398	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey"	1875-76
3399	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3400	G. K. Gilbert	Indexes Nos. 1 to 10, Notes on Utah, "Powell Survey" (loaned to USGS)	1875-76
3401	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3402	G. K. Gilbert	"Powell Survey," Bonneville	1877
3403	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3404	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3405	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3406	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3407	G. K. Gilbert	"Powell Survey," Bonneville	1877
3408	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3409	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3410	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3411	G. K. Gilbert	"Powell Survey" (loaned to USGS)	1877-78
3412	G. K. Gilbert	Adams Center, New York	1890
3413	G. K. Gilbert	New York	1885
3414	G. K. Gilbert	Various Stations	1878
3415	G. K. Gilbert	Gunnison Series, Utah	1878
3416	G. K. Gilbert	Utah	1879
3417	G. K. Gilbert	Utah	1879
3418	G. K. Gilbert	Bonneville, Utah	1879
3419	G. K. Gilbert	Bonneville, Utah	1879-80
3420	G. K. Gilbert	Bonneville, Utah	1880
3421	G. K. Gilbert	Bonneville, Utah	1880
3422	G. K. Gilbert	Bonneville, Utah	1880
3423	G. K. Gilbert	Bonneville, Utah	1880
3424	H. A. Wheeler	Utah	1880
3425	H. A. Wheeler	Utah	1880
3426	G. K. Gilbert	Utah and California [missing]	1883
3427	G. K. Gilbert	Utah and California [missing]	1883
3428	G. K. Gilbert	Virginia and New Jersey	1884
3429	G. K. Gilbert	New York to Arizona	1884
3430	G. K. Gilbert	New York	1885
3431	G. K. Gilbert	New York	1885
3432	G. K. Gilbert	New York	1885
3433	G. K. Gilbert	Pennsylvania, Tennessee, and Virginia	1885-86
3434	G. K. Gilbert	New York	1886
3435	G. K. Gilbert	New York	1886
3436	G. K. Gilbert	New York	1886
3437	G. K. Gilbert	New York	1886-87
3438	G. K. Gilbert	Tennessee	1887
3439	G. K. Gilbert	New York	1887
3440	G. K. Gilbert	North Bay, Canada, and Elmira, New York	1887
3441	G. K. Gilbert	New York and Washington, D.C.	1888
3442	G. K. Gilbert	New York and Washington, D.C.	1889
3443	G. K. Gilbert	New York and Washington, D.C.	1890
3444	G. K. Gilbert	New York	1890
3445	G. K. Gilbert	New Jersey and Pennsylvania	1891
3446	G. K. Gilbert	New York	1890-91
3447	G. K. Gilbert	Excursion of the Fifth International Congress of Geologists to Montana, Utah, Colorado, New Mexico, and Arizona	1891
3448	G. K. Gilbert	Arizona	1891
3449	G. K. Gilbert	Arizona	1891
3453	G. K. Gilbert	Colorado	1893
3454	G. K. Gilbert	Colorado	1893
3455	G. K. Gilbert	Colorado	1893

3456	G. K. Gilbert	Colorado	1893
3457	G. K. Gilbert	Pueblo Quadrangle, Colorado	1892-93
3458	G. K. Gilbert	New York	1894
3459	G. K. Gilbert	Virginia and New York	1894-95
3460	G. K. Gilbert	New York	1895
3461	G. K. Gilbert	Colorado	1895
3462	G. K. Gilbert	Colorado	1895
3463	G. K. Gilbert	Colorado	1895
3464	G. K. Gilbert	Colorado	1895
3465	G. K. Gilbert	New York	1895
3466	G. K. Gilbert	Michigan and New York	1896
3467	G. K. Gilbert	New York	1896
3468	G. K. Gilbert	Ontario; New York	1896
3469	G. K. Gilbert	New York	1896
3470	G. K. Gilbert	New York	1896
3471	G. K. Gilbert	New York	1896
3472	G. K. Gilbert	New York	1896
3473	G. K. Gilbert	New York	1896
3474	G. K. Gilbert	New York	1897
3475	G. K. Gilbert	Harriman Expedition, New York to Yakutat, Alaska	1899
3476	G. K. Gilbert	Harriman Expedition, New York to Yakutat, Alaska	1899
3477	G. K. Gilbert	Mexico	1899
3478	G. K. Gilbert	Alaska	1899
3479	G. K. Gilbert	Washington and Oregon	1899
3480	G. K. Gilbert	Harriman Expedition, Washington and Oregon	1899
3481	G. K. Gilbert	Utah	1901
3482	G. K. Gilbert	Utah	1901
(Begin duplicate numbers 3483 to 3565)			
3483	G. K. Gilbert	Utah	1901
3483	G. W. Tower	Butte, Montana copper mines: Bellona, Colusa, Comanche, Dayton, Emma, Ensenada, Gaynon, Gambetta, Johnstown, Leonard Little Ida, Mt. View, Original, Pennsylvania, Rarus, Silver Bow, Virginus	1896
3484	G. W. Tower	Butte, Montana, silver mines: Allie Brown, Aplite, Atlantic, Butte and Boston, Goldflint, Highland, Hyde Park, Iowa, Kossuth, Lexington, Moody and Salsley, Rainbow lode, W. P. Blake, Wappello	1895
3484	G. K. Gilbert	Utah	1901
3485	G. K. Gilbert	Utah	1901
3485	G. W. Tower	Butte, Montana, silver mines: Alice, Blue Wing, Currie, Garfield, Gray Rock, Hawkeye, Hibernia, Lexington, Magna Charta, Magnolia, Nettie, Parnell, Penrose	1896
3486	G. W. Tower	Butte, Montana, copper mines: Glengarry, Gray Rock, Johnston vein, Lloyd Tunnel, Mt. View, Penna, Rarus, Silver Bow, Windlass,	1896
3486	G. K. Gilbert	Utah	1901
3487	G. K. Gilbert	Arizona	1901
3487	G. W. Tower	Butte, Montana, copper mines: Baltic, Bell, Bellona, Blue Jay, Buffalo, Colusa Parrott, Estalla, Green Mt., Moonlight, Mt. Consolidated, Pipestone Springs	1896
3488	G. W. Tower	Butte, Montana, general quarries, miscellaneous	1896
3488	G. K. Gilbert	New York	1902-3
3489	G. K. Gilbert	California	1903
3489	G. W. Tower	Butte, Montana, mines: Adams, Amy, Anaconda, Anderson, Atlantic, Belmont, Belle of Butte, Blackrock, Clinton, Colusa Parrott, Elm Orly, Gagnon, Grey Rock, Goldsmith, Hibernia, Homestake, Kit Carson, Lexington, Nettie, North Star, Odin, Old Glory, Oneida, Poser, Rainbow, Schneitjes, Silver Sides, Six O'clock, Snowdrift, Springfield, Valley, Wappello, Wedge	1896
3490	G. W. Tower	Butte, Montana, mines: Anaconda, Buffalo, Cuervo Bayo, Green Mt., Diamond Drill, Ground Squirrel, Mar, Modoc, Mountain Consolidated, Parrott, Ramsdell Parrott, Wake Up John	1896
3490	G. K. Gilbert	California	1903
3491	G. K. Gilbert	California	1903
3491	T. H. Hensley	Butte, Montana: Modoc mine	1896
3492	G. W. Tower	Butte, Montana, Anaconda mines	1896
3492	G. K. Gilbert	California: Glen Echo Quarry, Maryland; and Stone Mountain, Georgia	1903
3493	G. K. Gilbert	New York, Michigan, and California	1904
3493	G. W. Tower	Butte, Tintic, catalogue of specimens, slides, cases, etc.	n
3494	Joseph Barrell	Boulder and Helena Quadrangles, Montana, mines	1899
3494	G. K. Gilbert	California	1904
3495	Joseph Barrell	Helena quadrangle, Montana	1899
3495	G. K. Gilbert	California	1904
3496	Joseph Barrell	Boulder Hot Springs, Montana	1899
3496	G. K. Gilbert	California: Mackinaw City, Michigan	1904
3497	G. K. Gilbert	California	1905
3497	Joseph Barrell	Montana, Mountain View cross cuts, Leonard and West Colusa levels	1900

3498	Joseph Barrell	Deer Lodge , Montana, reconnaissance surface work, Klondike crosscut from Silver Bow north, West Colusa levels	1900
3498	G. K. Gilbert	California	1905
3499	G. K. Gilbert	California	1905
3499	Joseph Barrell	West Colusa levels (7th, 8th, 9th, and 10th), Montana	1900
3500	Joseph Barrell	Marysville, Montana	1901
3500	G. K. Gilbert	California	1905
3501	G. K. Gilbert	California	1906
3501	Joseph Barrell	Marysville, Montana	1901
3502	W. H. Weed	Yellowstone Park Quadrangle, Wyoming. List of specimens sent to laboratory	1889
3502	G. K. Gilbert	California	1906
3503	G. K. Gilbert	California	1906
3503	W. H. Weed	Red Lodge and Great Forks Quadrangles, Montana	1891
3504	W. H. Weed	Publication, Geology and mineral resources of the Judith Mountains, Montana	1892
3504	G. K. Gilbert	California	1907
3505	G. K. Gilbert	California	1907
3505	W. H. Weed	Hot Springs Quadrangle, Montana	1891
3506	W. H. Weed	Notes on Neihart and vicinity, Montana	1893
3506	G. K. Gilbert	California	1907-8
3507	G. K. Gilbert	California	1908
3507	W. H. Weed	Neihart Quadrangle, Montana	1893
3508	W. H. Weed	Neihart Quadrangle, Montana, notes on Crazy Mountains, Little Belt Mountains, and Highwood Mountains	1894
3508	G. K. Gilbert	California	1908
3509	G. K. Gilbert	Utah	1914
3509	W. H. Weed	Neihart Quadrangle	1894
3510	W. H. Weed	Neihart Quadrangle	1894
3510	G. K. Gilbert	Utah	1916
3511	G. K. Gilbert	Sketches, Utah (Bonneville outlet and shorelines)	1879-80
3511	W. H. Weed	Neihart, Montana	1895
3512	W. H. Weed	Butte, Montana	1896
3512	G. K. Gilbert	Sketches: Station Butte, Desert Buttes, Mirage, Fish Spring Range, Jeff Davis Peak	1879-80
3513	G. K. Gilbert	Sketches of Desert Buttes, Station Butte, Dunderberg, and Pavant Butte; and notes on Mountain Lake, Virginia	1880-82
3513	W. H. Weed	Butte, Montana	1896
3514	W. H. Weed	Boulder, Montana, Geological and Boulder Quadrangles	1897
3514	G. K. Gilbert	California and Utah	1916-17
3515	G. K. Gilbert	Utah	1917
3515	W. H. Weed	Jefferson County, Montana	1896-97
3516	Johnson	Boulder Quadrangle, Montana	1898
3516	G. K. Gilbert	Sketches, Utah	1914
3517	W. H. Weed	Boulder, Montana, Geological notes on Boulder Quadrangles	1898
3517	G. K. Gilbert	Index to 1875 notebooks	n.d.
3518	G. K. Gilbert	Index	n.d.
3518	W. H. Weed, Willis	Mostly Boulder Quadrangle, Montana; also Gibbonsville, etc., Elkhorn notes	1898
3519	W. H. Weed	Little Belt Mountains, Montana, Neihart notes collection	1899
3519	G. K. Gilbert	Index	n.d.
3520	W. H. Weed	Butte, Montana, notes on the cooper mines in Butte	1899
3520	G. K. Gilbert	Index	--
3521	W. H. Weed	Butte, Montana. Notes on Butte mines	1899
3521	G. K. Gilbert	Index	n.d.
3522	G. K. Gilbert	Card Index to notes on Niagara Falls	n.d.
3522	W. H. Weed	Butte, Montana	1899
3523	W. H. Weed	Butte, Montana, notes and tables by Weed on Anaconda, Mommouth, and other copper mines published in folio No. 38	1899
3523	G. K. Gilbert	Lake Bonneville, Utah, Sketches	1880
3524	G. K. Gilbert	Arizona, Sketches	1891
3524	W. H. Weed	Butte, Montana, description of specimens from Butte District	n.d.
3525	G. K. Gilbert	Nevada City	1908
3525	W. H. Weed	Butte, Montana. Notes on Butte mines	1900
3526	G. K. Gilbert	Yuba Dam Project	1909
3526	W. H. Weed	Butte, Montana	1901
3526-A	A. J. Collier	Vertical angle traverse notebook, Dawson County, Montana	1929
3526-B	A. J. Collier	Vertical range traverse notebook, Dawson County, Montana	1929
3526-C	F. S. Parker	Montana. Notes, August 7 - September 18	1930
3526-E	George F. Taylor	Montana. Notes, August 7 - September 17	1930
3526-F	Taylor, and others	Montana. Notes, June 9 - August 4	1930
3526-G	F. S. Parker	Montana. Vertical Angle Traverse, Richland - Dawson Counties	1930
3526-H	F. S. Parker	Montana. Vertical Angle Traverse, Richland - Dawson Counties	1930
3526-I	F. S. Parker	Montana. Vertical Angle Traverse, Richland - Dawson Counties	1930
3526-J	F. S. Parker	Montana. Vertical Angle Traverse, Richland - Dawson Counties	1930
3526-K	F. S. Parker	Montana. Notes, June 9 - August 4	1930
3526-L	F. S. Parker	Montana. Richland - Dawson Survey, elevations of primary stations	1930
3527	G. K. Gilbert	Computation notes and cross sections, Yuba Canyon	1909
3527	R. W. Stone	Butte, Montana	1901

3528	Walter H. Weed	Stony Point Quadrangle, Virginia	1904
3528	G. K. Gilbert	Computations for dams in Yuba Canyon	1909
3529	W. H. Weed	Nicaragua, notes on copper mines	1904
3529	G. K. Gilbert	Unbound material consisting chiefly of notes with correspondence, sketches and reports relating to investigations of hydraulic mining debris in the Sacramento, Feather, and Yuba Rivers, also including depth soundings in bays. The findings were published as Professional Paper No. 105.	1903-4, 1906 1911-12, 1914
3530	E. C. Murphy	California, notes on water transportation experiments	1906
3530	W. H. Weed	Butte, Montana	1904
3531	W. H. Weed	Copper mines in Virginia and North Carolina	1905
3531	E. C. Murphy	California, notes on water transportation experiments	1907
3532	W. H. Weed	Kendall Quadrangle, Montana	1906-7
3532	E. C. Murphy	California, notes on water transportation experiments	1907
3533	E. C. Murphy	California, notes on water transportation experiments	1907
3533	W. H. Weed	Copper mines, Butte Quadrangle, Montana	1909
3534	W. H. Weed	Elkhorn Mine	n.d.
3534	E. C. Murphy	California, notes on water transportation experiments	1907
3535	E. C. Murphy	California, notes on water transportation experiments	1907
3535	W. H. Weed	Butte, Montana. Notes and sketches	1898
3536	E. C. Murphy	California, notes on water transportation experiments	1907
3536	W. H. Weed	Gold Hill, North Carolina, and Ducktown, Tennessee, notes on copper	n.d.
3537	E. C. Murphy	California, notes on water transportation experiments	1907
3537	W. H. Weed	List of mine maps, Butte, Montana	n.d.
3538	E. C. Murphy	California, notes on water transportation experiments	1907
3539	E. C. Murphy	Debris Investigation Laboratory	1907
3540	E. C. Murphy	Debris Investigation Laboratory	1907
3541	E. C. Murphy	Debris Investigation Laboratory	1907
3542	E. C. Murphy	Debris Investigation Laboratory	1907
3543	E. C. Murphy	Debris Investigation Laboratory	1907
3544	E. C. Murphy	Debris Investigation Laboratory	1907
3545	E. C. Murphy	Debris Investigation Laboratory	1907
3546	E. C. Murphy	Debris Investigation Laboratory	1907
3547	E. C. Murphy	Debris Investigation Laboratory	1907
3548	E. C. Murphy	Debris Investigation Laboratory	1907
3549	E. C. Murphy	Debris Investigation Laboratory	1907-8
3550	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1907
3552	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3553	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3554	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3555	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3556	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3557	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3558	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3559	E. C. Murphy	Debris Investigation Laboratory	1908
3560	E. C. Murphy	Debris Investigation Laboratory	1908
3561	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3562	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3563	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3564	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3565	Condit, Finch & Pardee	Three Forks, Yellowstone Park region, Montana, published in Bulletin 795-G, cards and maps	1916
3565	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
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3566	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3567	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3568	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3569	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3570	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3571	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3572	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3573	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3574	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3575	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3576	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3577	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1908
3578	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1909
3579	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1909
3580	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1909
3581	E. C. Murphy	Debris Investigation Laboratory, Special Experiments	1909
3582	G. K. Gilbert	Berkeley, California, hydraulic laboratory notes	1907
3583	G. K. Gilbert	Notes for Professional Paper 86	n.d.
3584	G. K. Gilbert	Notes for Professional Paper 86	n.d.
3585	G. K. Gilbert	Notes for Professional Paper 86	n.d.
3597	J. M. Boutwell	Sturgis, South Dakota, geological notes and list of specimens	1898
3598	J. M. Boutwell	Sturgis, South Dakota, geological notes and list of specimens	1898

3599	J. M. Boutwell	Sturgis and Spearfish, South Dakota, geological notes and lists of specimens	1899
3600	J. M. Boutwell	Spearfish, South Dakota, geologic notes and list of specimens	1899
3601	J. M. Boutwell	Sturgis, South Dakota, N. Half, geologic notes and maps	n.d.
3602	J. M. Boutwell	Sturgis, South Dakota, S. Half, geologic notes and maps	n.d.
3603	J. M. Boutwell	Spearfish, South Dakota, N. Half, geologic notes and maps	1899
3604	J. M. Boutwell	Spearfish, South Dakota, S. Half, geologic notes and maps	n.d.
3661	W. H. Weed	Butte, Montana, notes on mines	n.d.
3662	W. H. Weed	Butte, Montana, notes on Moose mine	n.d.
3663	W. H. Weed	Butte, Montana, notes on Berkeley	n.d.
3664	W. H. Weed	Butte, Montana, notes on Mountain View mine	n.d.
3665	W. H. Weed	Butte, Montana, notes on Mountain View mine	n.d.
3666	W. H. Weed	Butte, Montana, notes on Blue Jay mine	n.d.
3667	W. H. Weed	Butte, Montana, Western Calusa and Leonard mines	n.d.
3668	W. H. Weed	Butte, Montana, Western Calusa and Leonard mines	n.d.
3669	W. H. Weed	Silver Bow mine - Butte, Montana	n.d.
3670	W. H. Weed	Silver Bow No. 1 and Silver Bow No. 3 mines	1899
3671	W. H. Weed	Notes on Pennsylvania and Montana mines	n.d.
3672	W. H. Weed	Notes on Pigeon, Stewart, Ella, Gagnon, Gem, and York mines, Montana	n.d.
3673	W. H. Weed	Notes on St. Lawrence mines, Montana	n.d.
3674	W. H. Weed	Notes on Jessie mine, Montana	n.d.
3675	W. H. Weed	Rarus mine, Montana	n.d.
3676	W. H. Weed	Rarus mine, Montana	n.d.
3677	W. H. Weed	Notes on Rarus, Pennsylvania and Coca mines, Montana	n.d.
3678	W. H. Weed	Parrot mine, Montana	n.d.
3679	W. H. Weed	Mt. Con., Green Mt., high ore, and diamond mines, Montana	n.d.
3680	W. H. Weed	Notes on Glengarry, Neva, and Gopher mines, Montana	n.d.
3824	F. L. Ransome	Ray Quadrangle, Arizona (includes a description of specimens and fossils	1910-11
3825	F. L. Ransome	Ray Quadrangle, Arizona (includes references to photographs taken in Ray Quadrangle)	1910-11
3826	F. L. Ransome	Ray Quadrangle, Arizona	1910-11
3826-A	F. L. Ransome	Ray Quadrangle, Arizona, drawings illustrating metamorphism of quartzite	1910-11
3827	F. L. Ransome	Miami Special, Grand Canyon	1911
3828	F. L. Ransome	Ray and Miami Districts, Arizona. Notebook No. 5	1912
3829	J. B. Umpleby	Ray Special, Miami Special, Arizona. Geological notes made during field season of 1910-11 including a list of specimens found in Ray Quadrangle	1910-11
3830	J. B. Umpleby	Ray Special and Miami Special, Arizona. Geological notes	1910-11
3830-A	F. L. Ransome	Hailey, Idaho; Sumpter, Oregon; Yosemite, and Napa, California; Shasta County copper mines, California; Van Horn, Texas; Denning and Silver City, New Mexico; Franklin Furnace, New Jersey; Santa Rita, New Mexico	1912-13
3830-B	F. L. Ransome	Notes on Sudbury, Selwood (Moose Mt.), Colbalt and Coniagas mines, Canada	1913
3830-C	F. L. Ransome	Vacaville, Suisun, Stanford, Livermore, San Jose, Los Angeles, Valyermo	1915
3830-D	F. L. Ransome	Quadrangles; also a few notes on Goldfield, Nevada	1915
3830-E	F. L. Ransome	Cuyuna Range, Mesabi Range, Biwabik mine and Ironton, Minnesota; Miami mines, Inspiration Ridge, Ray - Hercules mines, Phoenix, Ojo, Arizona; Mogollon, Fanny mine, Cooney Canyon, New Mexico	1916
3830-E	F. L. Ransome	Colorado River dams, California	1921
3830-F	F. L. Ransome	Weaverville, Randburg, Chalome, Yuma and Big Trees Quadrangles, California	1917
3831	F. L. Ransome	Colorado River, Nevada	1922
3831	F. L. Ransome	4 in. x 6 in. card index of localities, specimens, and mines found in Books 1 to 5. Ray and Miami District, Arizona	1910-11
3832	W. H. Weed	Yellowstone Park, Midway Geyser Basin, Old Faithful Group, Giantess Group, Three Crater Group	1883
3833	W. H. Weed	Yellowstone Park, Giantess Group, Three Crater Group, Giantess Geyser, Grand and Turbine indicators, River Group, Riverside Geyser, Castle Group, Castle Cone, Crystal Spring, Splendid, Giant Group, Oblong Springs on Little Firehole, Soda Geyser Group, Cascade Group, Emerald Group, Cliff Geyser, Solitary Spring, Camp Group, Marys Lake Sulphur Springs, Sulphur Creek Springs	1883
3834	W. H. Weed	Yellowstone Park, Red Terrace Spring, Fissure Group, Pink Cone Geyser, Goose Mud Lake, Perpetual Geyser, East Fork Springs, Fountain Group, Geyser Meadows; also Spring notes	1883
3835	W. H. Weed	Yellowstone Park, Mammoth Hot Springs	1884
3836	W. H. Weed	Yellowstone Park, Hot Springs notes, Norris Geyser Basin	1884
3837	W. H. Weed	Yellowstone Park, Norris Geyser Basin, Geyser Creek Springs Lower Geyser Basin, Egeria Springs, Upper Geyser Basin, Lone Star Basin, Springs of Twin Lakes	1884
3838	W. H. Weed	Yellowstone Park, Upper Geyser Basin, Shoshone Basin, Springs of Midway Geyser Basin, Springs of Rabbit Creek, Sour Creek Springs, Broad Creek Springs, Moss Creek (Orange Creek), Forest Springs	1884
3839	W. H. Weed	Yellowstone Park, list of collection of specimens	1884
3840	W. H. Weed	Yellowstone Park, Mammoth Hot Springs	1885
3841	W. H. Weed	Yellowstone Park, Lower Firehole: Butte Group, Camp Group, Sentinel Group, Twin Buttes, Fairy Falls Group, River Group, Norris Basin	1885

3842	W. H. Weed	Yellowstone Park, Upper Geyser Basin, Geysers of Upper Basin	1885
3843	W. H. Weed	Yellowstone Park, Hot Springs notes	1884
3844	W. H. Weed	Yellowstone Park, Giant Geyser cone, Lower Basin, Upper Basin and general notes	1885-86
3845	W. H. Weed	Yellowstone Park Survey, diary of travels and observations	1886
3846	W. H. Weed	Yellowstone Park, Hot Springs areas	1886
3847	W. H. Weed	Yellowstone Park, Upper Geyser Basin	1888
3848	W. H. Weed	Yellowstone Park, Hot Spring localities [index in front of notebook]	1887
3849	W. H. Weed	Yellowstone Park, notes of hot springs	1887
3850	W. H. Weed	Yellowstone Park, Shoshone Geysers, Lakeshore Hot Springs, Lower Firehole Springs	1887
3851	W. H. Weed	Yellowstone Park, general geological notes	1887
3852	W. H. Weed	Yellowstone Park, Meadow near Buttes relation of sinter and diatom to drift	1888
3853	W. H. Weed	Yellowstone Park, general notes	1888
3854	W. H. Weed	Yellowstone Park, general notes	1889
3855	W. H. Weed	Yellowstone Park, general notes	1889
3856	W. H. Weed	Yellowstone Park, notes on hot springs and geysers; diagram of springs along Yellowstone Lake	1889
3857	W. H. Weed	Yellowstone Park, coal notes	1890
3858	W. H. Weed	Yellowstone Park, coal notes	1890
3859	M. P. Redmond	Yellowstone Park	1890
3860	W. H. Weed	Yellowstone Park, notes on coal	1892
3861	W. H. Weed	Yellowstone Park, Mammoth Hot Springs	1897
3862	W. H. Weed	Yellowstone Park; Boulder, Yellowstone, and Butte Quadrangles	1899
3863	W. H. Weed	Yellowstone Park, chemical analyses of specimens	n.d.
3864	W. H. Weed	Yellowstone Park, list of specimens collected by Hague and Weed	1883-88
3864-A	W. H. Weed	Yellowstone Park, index of note books	1883
3864-B	W. H. Weed	Yellowstone Park, Mammoth Hot Springs	1888
3865	Paul J. Dashiell	Yellowstone Park, Swan Lake Valley, with specimen slide	1888
3866	Louis V. Pirsson	Yellowstone Park, various localities with sketches	1889
3867	J. H. Ropes	Yellowstone Park	1889
3868	Arnold Hague	Yellowstone Park, Sylvan Pass trip	1889
3869	Arnold Hague	Yellowstone Park, "Trip Through the Park with the International Congress of Geologists"	n.d.
3870	Arnold Hague	Address book containing many foreign names and addresses	n.d.
3870-A	Arnold Hague	Yellowstone National Park; Montana; Washington; Oregon; California	n.d.
3871	Henry Gannett	Yellowstone Park, topographic notes and drawings (by Mushback), Shoshone Geyser Basin, Red Mountain Creek, Gibbon Fork, Norris Basin, Mammoth Springs	1878
3872	Henry Gannett	Yellowstone Park, topographic notes and drawings (by Mushback), Shoshone Basin, Upper Geyser, Midway Springs, Lower Geyser	1878
3873	W. H. Weed	Yellowstone Park, list of specimens collected by Weed, Iddings, and Hague, Nos. 1261 to 2640	n.d.
3874	Arnold Hague	Yellowstone Park, catalogue of specimens of igneous rocks collected by J. P. Iddings and G. M. Wright	n.d.
3875	W. H. Weed	Yellowstone Park, list of specimens collected by Hague, Weed, Iddings, Wright and F. A. G., Nos. 2641 to 3383	n.d.
3876	W. H. Weed	Yellowstone Park, chemical analyses of specimens	1884
3877	W. H. Weed	Notes on foreign hot springs by Hutton, Carpenter, Koschull, Hooker, Abbey, Dapree, and Nelson	--
3878	W. H. Holmes	Book of sketches for Colorado Division of the "Hayden Survey"	1874
3879	W. H. Holmes	Colorado, books of sketches for Colorado Division of the "Hayden Survey"	1875
3880	W. H. Holmes	Colorado, books of sketches for Colorado Division of the "Hayden Survey"	1878
3881	W. H. Holmes	Colorado, books of sketches for Colorado Division of the "Hayden Survey"	1874
3882	W. H. Holmes	Yellowstone Park, book of sketches for the Colorado Division of the "Hayden Survey"	1878
3883	George M. Wright	Yellowstone Park, geologic notes and description of specimens	1884
3884	G. M. Wright	Yellowstone Park, geologic notes and description of specimens	1884
3885	G. M. Wright	Yellowstone Park, geologic notes and description of specimens	1884
3886	G. M. Wright	Yellowstone Park, geologic notes	1884
3887	G. M. Wright	Yellowstone Park, geologic notes	1884
3888	G. M. Wright	Notes and list of specimens: Crazy Mountains, Montana, and Yellowstone National Park	1885
3889	G. M. Wright	Yellowstone Park, geologic notes and descriptions of specimens	1885
3890	G. M. Wright	Yellowstone Park, geologic notes and descriptions of specimens	1885
3891	G. M. Wright	Yellowstone Park, geologic notes and descriptions of specimens	1885
3892	G. M. Wright	Yellowstone Park, geologic notes	1885
3892-A	T. A. Jaggard	Absaroka Range, Yellowstone Park Survey, including notes on rock specimens collected	1893
3892-B	T. A. Jaggard	Absaroka Range, Yellowstone Park Survey, including list of photographs	1893
3892-C	T. A. Jaggard	Absaroka Range, Yellowstone National Park, including notes on rock specimens collected	1897
3892-D	T. A. Jaggard	Absaroka Range	1897
3892-E	T. A. Jaggard	Absaroka Range	1897
3892-F	Arnold Hague	Absaroka Range, notes on rock specimens collected	1893
3892-G	F. P. King	Crandall Creek sheet, Wyoming, and Ishawood sheet	1897
3893	G. M. Wright	Yellowstone Park, geologic notes with a revision of portions of notes of previous years, and additions thereto	1885

3893-A	G. M. Wright	Yellowstone National Park, geologic notes	1883
3893-B	G. M. Wright	Tertiary and Quaternary references to northern Rocky Mountains area from published works n.d.	
3893-C	G. M. Wright	Yellowstone National Park, descriptive notes and list of specimens	1883-84
3893-D	W. H. Weed	Abstracts from reports and papers containing observations upon hot springs and geysers of Yellowstone National Park	n.d.
3893-E	W. H. Weed	Yellowstone National Park Survey, chemical analyses of specimens and waters	n.d.
3893-F	J. P. Iddings	Yellowstone National Park, field notes and mounted photographs	1883
3893-G	J. P. Iddings	Yellowstone National Park, field notes and mounted photographs	1884
3893-H	G. M. Wright	Yellowstone National Park, descriptive notes	1884
3893-I	G. M. Wright	Yellowstone National Park, descriptive notes	1884-85
3893-J	G. M. Wright	Yellowstone National Park, descriptive notes and revisions of notes	1885
3893-K	W. H. Weed	Yellowstone National Park, geyser observations and meteorological records	1884
3893-L	W. H. Weed	Yellowstone National Park, hot springs notes	1884
3893-M	W. H. Weed	Yellowstone National Park, hot springs notes	1884
3893-N	W. H. Weed	Yellowstone National Park, hot springs notes	1885
3893-O	W. H. Weed	Yellowstone National Park, general geological notes	1884
3893-P	W. H. Weed	References to the Jurassic in published sources	n.d.
3893-Q	Joseph P. Iddings	Yellowstone National Park, field notes	1885
3893-R	J. P. Iddings	Yellowstone National Park, field notes	1885
3893-S	W. H. Weed	Yellowstone National Park, notes on geysers and hot springs	1886
3893-T	W. H. Weed	Yellowstone National Park, notes on hot springs	1886
3893-U	J. Edward Whitfield, L. G. Eakins	Yellowstone National Park, chemical analyses	1887-92
3893-V	J. P. Iddings	Yellowstone National Park, field notes	1887
3893-W	J. P. Iddings	Yellowstone National Park, field notes	1888-89
3893-X	W. H. Weed	Yellowstone National Park area, geologic notes	1886-87
3893-Y	W. H. Weed	Yellowstone National Park, hot springs notes	1887
3893-Z	W. H. Weed	Yellowstone National Park, hot springs notes	1887-88
3893-Z 1	W. H. Weed	Yellowstone National Park, geologic notes	1888-89
3893-Z 2	J. P. Iddings	Yellowstone National Park, field notes	1889-90
3893-Z 3	J. P. Iddings	Yellowstone National Park, field notes	1890
3893-Z 3	[various]	Yellowstone National Park, list of specimens Nos. 1-1260	n.d.
3893-Z 4	W. H. Weed	Yellowstone National Park, hot springs notes	1888
3893-Z 5	J. P. Iddings	Yellowstone National Park	1883
3893-Z 6	J. P. Iddings	Yellowstone National Park	1886
3894	--	List of specimens collected by Hague and Emmons	n.d.
3894-A	Arnold Hague	Yellowstone National Park	1884
3894-B	Arnold Hague	Yellowstone National Park	1884
3894-C	Arnold Hague	Yellowstone National Park	1885
3894-D	Arnold Hague	Yellowstone National Park	1885
3894-E	Arnold Hague	Yellowstone National Park	1886
3894-F	Arnold Hague	Yellowstone National Park	1886
3894-G	Arnold Hague	Yellowstone National Park	1887
3894-H	Arnold Hague	Yellowstone National Park	1887
3894-I	Arnold Hague	Yellowstone National Park	1888
3894-J	Arnold Hague	Yellowstone National Park	1888
3894-K	Arnold Hague	Yellowstone National Park	1889
3894-L	Arnold Hague	Yellowstone National Park	1889
3894-M	Arnold Hague	Yellowstone National Park	1889
3894-N	Arnold Hague	Trip through Yellowstone National Park with the Fifth International Congress of Geologists on their western excursion	1891
3894-O	Arnold Hague	Yellowstone National Park	1891
3894-P	Arnold Hague	Yellowstone National Park	1893
3894-Q	Arnold Hague	Yellowstone National Park	1893
3894-R	Arnold Hague	Yellowstone National Park	1897
3894-S	Arnold Hague	Yellowstone National Park	1897
3894-T	Arnold Hague	Yellowstone National Park	1902
3894-U	Arnold Hague	Yellowstone National Park	1902
3894-V	Ernest Howe	Yellowstone National Park	1911
3894-W	Arnold Hague	Yellowstone National Park	1911
3894-X	Arnold Hague	Yellowstone National Park	1915
3894-Y	Arnold Hague	Yellowstone National Park	n.d.
3894-Z	Arnold Hague	Yellowstone National Park, geysers	n.d.
3896	Arnold Hague	Yellowstone National Park, list of specimens, Nos. 1 to 29, collected by Iddings, Weed, Wright, and S. L. P.	n.d.
3897	Arnold Hague	2 lists of specimens, Nos. 1 to 2825 from Washoe, and Nos. 1 to 484 from Toiyabe Mountains, Montana	n.d.
3898	Arnold Hague	Chemical analyses of specimens from Mt. Rainier, Washington, and localities in Wyoming	n.d.
3899	Arnold Hague	Chemical analyses of specimens from mines	n.d.
3899-A	W. H. Weed	Yellowstone National Park, hot springs	1883
3899-B	W. H. Weed	Yellowstone National Park, geysers	n.d.
3899-C	W. H. Weed	Yellowstone National Park, geysers	1883
3936	J. P. Iddings	Eureka District, Nevada	1880
3936-A	J. P. Iddings	Eureka District, Nevada	1880
3937	W. E. Sanders	Yellowstone National Park	1884
3938	Penfield	Yellowstone National Park	1886
3939	J. P. Iddings	Yellowstone National Park, list of thin sections	1883
3940	A. C. Gill	Yellowstone National Park	1887

3941	J. P. Iddings	Yellowstone National Park	1883
3942	J. P. Iddings	Yellowstone National Park	1884
3943	J. P. Iddings	Yellowstone National Park	1884
3944	J. P. Iddings	Yellowstone National Park	1885
3945	J. P. Iddings	Yellowstone National Park	1885
3946	J. P. Iddings	Yellowstone National Park	1886
3947	J. P. Iddings	Yellowstone National Park	1887
3948	J. P. Iddings	Yellowstone National Park	1887
3949	J. P. Iddings	Yellowstone National Park	1888
3950	J. P. Iddings	Yellowstone National Park	1889
3951	J. P. Iddings	Yellowstone National Park	1889
3952	J. P. Iddings	Yellowstone National Park	1890
3953	J. P. Iddings	Yellowstone National Park	1891
5208	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 1	1920-21
5209	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 2	1920-21
5210	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 3	1920-21
5211	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 4	1921
5212	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 5	1921
5213	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 6	1921
5214	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 7	1921
5215	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 8	1921
5216	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 9	1921
5217	H. A. J. Jenison	Notes on Oatman District, Arizona, Notebook No. 10	1922
5218	F. L. Ransome	Notes on Oatman District, Arizona, Notebook No. 11	1923
5243	Clarence King, S. F. Emmons J. D. Hague	California. Descriptive catalogue of specimens collected on U. S. Geological Exploration of the Fortieth Parallel	1867
6000	Wm. C. Alden	Glacial geology and physiography, Easton, Allentown, and Reading, Pennsylvania; Raritan and Passaic, New Jersey; New Castle and Zelienople, Pennsylvania; Equinox, Vermont; Cape Cod and Martha's Vineyard, Massachusetts	1916
6001	Wm. C. Alden	Glacial geology and physiography, Saskatchewan, northwestern North Dakota and northeastern Montana (west to 109 degrees)	1916
6002	Wm. C. Alden	Glacial geology and physiography, Saskatchewan, northwestern North Dakota and northeastern Montana (west to 109 degrees)	1916
6003	Wm. C. Alden H. E. Gregory	Glacial geology and physiography, Connecticut River Valley, Connecticut, and Long Island, New York	1917
6004	Wm. C. Alden	Glacial geology of eastern Nebraska and western Iowa	1919
6005	Wm. C. Alden	Glacial geology of eastern Nebraska and western Iowa	1919
6006	Wm. C. Alden	Glacial geology and physiography, North Dakota, Saskatchewan, and Montana	1920
6007	Wm. C. Alden	Glacial geology and physiography, North Dakota, Saskatchewan, Alberta, and Montana	1920
6008	Wm. C. Alden	Glacial geology and physiography, North Dakota and Saskatchewan, Alberta, and Montana	1920
6009	Wm. C. Alden	Glacial geology and physiography, McKean and adjacent counties in Pennsylvania and New York, for the U. S. Forest Service	1921
6010	Wm. C. Alden	Glacial geology and physiography, North Dakota and west to 112 degrees in Montana and to Yellowstone Park	1921
6011	Wm. C. Alden	Glacial geology and physiography, North Dakota and west to 112 degrees in Montana and to Yellowstone Park	1921
6012	Wm. C. Alden	Glacial geology and physiography, Yellowstone Valley and east to Dickinson, North Dakota	1921
6013	Wm. C. Alden	Glacial geology and physiography, Dickinson, North Dakota, SW. to Yellowstone National Park and NW. to Great Falls, Montana	1922
6014	Wm. C. Alden	Glacial geology and physiography, Yellowstone National Park and north to Great Falls, Montana	1922
6015	Wm. C. Alden	Glacial geology and physiography, Great Falls, Montana, to Yellowstone Park, Wind River Valley, Big Horn Mountains, Wyoming	1923
6016	Wm. C. Alden	Glacial geology and physiography, Great Falls, Montana, S. to Yellowstone Park, Big Horn and Wind Rivers, Big Horn Mountains, Wyoming	1923
6017	Wm. C. Alden, G. F. Kay, E. T. Apfel, E. P. Rothrock	Field conference, glacial geology of western Iowa, Council Bluffs, north and east and south to Iowa City	1923
6018	Wm. C. Alden	Glacial geology and physiography of Wind River Mountains, Green River and Jackson Hole	1924
6019	Wm. C. Alden	Glacial geology and physiography of Wind River Mountains, Jackson Hole, Green River, and SW. Wyoming and east to Cheyenne	1924
6020	Wm. C. Alden	Glacial geology and physiography, Laramie Mountains, Platte and Sweetwater Valleys to Jackson Hole; southwestern Wyoming, northeastern Utah, and North Park, Colorado	1925
6021	Wm. C. Alden	Glacial geology and physiography, Teton Mountains, northeastern Utah, and southwestern Wyoming	1925
6022	Wm. C. Alden	Glacial geology and physiography, Teton Mountains, SE. Idaho, NE. Utah and SW. Wyoming	1925
6023	Wm. C. Alden	Glacial geology and physiography, Teton Mountains, W. Wyoming and Green River, Uinta Mountains	1925
6024	Wm. C. Alden	Glacial geology and physiography, W. & N. of Uinta Mountains, E. to Craig, Colorado and Sierra Madre Mountains	1926
6025	Wm. C. Alden	Glacial geology and physiography, Sierra Madre Mountains and Laramie Basin, Platte River N. to Casper, Wyoming	1926

6026	Wm. C. Alden	Glacial geology and physiography, Sweetwater River, Wind River Mountains, Wind River NW. to Yellowstone National Park and Jackson Hole, Wyoming	1926
6027	Wm. C. Alden	Glacial geology and physiography, Jackson Hole, Teton Mountains and west to Ashton, Idaho	1926
6028	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Yellowstone National Park, Gallatin and Missouri Rivers N. to Helena and NW. to Flathead Basin, Glacier Park, and Missoula to Three Forks and south Montana	1927
6029	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Flathead Basin, Mission Range, Clark Fork, SE. to Phillipsburg, Montana	1927
6030	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Flint Creek Mountains, SE. to Three Forks, Madison River Valley and Mountains, Montana S. to Ashton, Idaho	1927
6031	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Madison Valley, Big Hole and NW. down Clarks Fork, Thompson Falls, Montana	1928
6032	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Thompson Falls, Montana, NW. down Clarks Fork, Spokane, and Ritzville, Washington	1928
6033	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Washtucna to Grand Coulee and E., N. of Spokane, Pend Oreille River, Kootenai Valley east to Libby, Montana	1928
6034	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Kootenai River, Flathead Basin; Missoula S. and E. to Monida, Montana	1928
6035	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Yellowstone Park, Ashton, Idaho, NW. to Missoula and west to Spokane; SW. to Pasco and up Columbia River to Lake Chelan, Washington	1928-29
6036	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Okanagan Valley, Columbia River and Spokane River and Pend Oreille River N. to 49 degrees, Washington	1929
6037	Wm. C. Alden	Reconnaissance, glacial geology and physiography, S. and N. of Spokane, N. Idaho, Clarks Fork Valley, Montana, and north; Flathead Basin and Swan Lake south to Blackfoot River and Missoula	1929
6038	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Bitterroot Valley, Big Hole and Dillon, south to Monida, east and south to Ashton, Idaho	1929
6039	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Madison and Missouri Rivers N. to Helena; Blackfoot River to Missoula, Glacier Park to Kootenai Valley	1930
6040	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Kootenai Valley down to Bonners Ferry and Kootenai Lake, East to Flathead Basin, Clarks Fork, Thompson Falls east and south up Bitterroot Valley	1930
6041	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Bitterroot Valley to Dillon, South to Monida; S. and E. to Ashton, Idaho	1930
6042	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Ashton, Idaho, N. to Glacier Park, W. to Kootenay Lake and SE. to Thompson Falls, Montana	1930
6043	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Ashton, Idaho, north; Madison and Gallatin Valleys; Blackfoot River and Flathead Basin Montana	1931
6044	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Flathead Basin, Missoula, Bitterroot Valley, Big Hold, Dillon and Wise River, Montana	1931
6045	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Wise River, Dillon and south to Lima, east to Ashton, Idaho	1931
6046	Wm. C. Alden	Field conferences with G. E. Condra, A. L. Lugn, and others, glacial geology, eastern half of Nebraska; traverses south, east, north and west from Lincoln (west to Gothanburg)	1932
6047	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Yellowstone Park and Cody, Wyoming, north to Great Falls, Montana; W. and N. to and in Glacier National Park, Montana, Flathead Basin and W. to Plains	1936
6048	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Plains to Missoula, Montana; to Cody, Wyoming; Yellowstone Park W. and N. to Dillon, Montana; Pioneer Mountains and Wise River; Big Hole Basin and Flathead Basin, Clarks Fork and E. to Helena; South to Butte, Ruby River, Spenser and Idaho Falls, Idaho	1936
6049	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Idaho Falls N. to Missoula; W. to St. Regis and Clarks Fork, Montana; Coeur D'Alene Mountains, Flathead Basin, Bitterroot Valley, Blackfoot River, Montana; and Salmon and Lemhi Valleys and Mountains, Idaho	1937
6050	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Salmon and Lemhi Valleys, Idaho; Beaverhead County, Montana; south to Monida, Montana; Spencer to Gilmore, Idaho, and to Idaho Falls	1937

6051	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Idaho Falls down Snake River to Wallula and Columbia River, Bonneville Dam, Portland, Mt. Hood, Grand Coulee Dam to Spokane, Washington, and north to Pend Oreille and Kootenai Rivers, Missoula, Dillon, Madison Valley, Montana	1938
6052	Wm. C. Alden	Reconnaissance, glacial geology and physiography, Madison River to Dillon, Big Hole, Montana, to Salmon River south and west to Sawtooth Mountains, Lost River Range, Idaho, Craters of Moon to Idaho Falls	1938
6053	Wm. C. Alden	Boston south to Cape Cod and northwest to Lowell and Barre, Vermont; Springfield and north in Massachusetts	1939
6054	Wm. C. Alden	Field conferences, glacial geology, Illinois, Wisconsin, Missouri, Illinois, Kentucky, Iowa, Illinois	1928, 1930-31
6055-a	Wm. C. Alden	Topographic maps showing geologic field data, Yellowstone National Park, Wyoming [2 maps]	n.d.
6055-b	Wm. C. Alden	Topographic map showing geologic field data, Yellowstone National Park, Wyoming	n.d.
6055-c	Wm. C. Alden	Topographic map showing geologic field data, Yellowstone National Park, Wyoming	n.d.
6055-d	Wm. C. Alden	Topographic map showing geologic field data, Yellowstone National Park, Wyoming	n.d.
6055-e	Wm. C. Alden	Topographic map showing geologic field data, Bald Mountain, Wyoming	n.d.
6055-f	Wm. C. Alden	Topographic map showing geologic field data, Blue Mesa, Wyoming	n.d.
6055-g	Wm. C. Alden	Topographic map showing geologic field data, Cheyenne, Wyoming	n.d.
6055-h	Wm. C. Alden	Topographic map showing geologic field data, Cloud Peak, Wyoming	n.d.
6055-i	Wm. C. Alden	Topographic map showing geologic field data, Como Ridge, Wyoming	n.d.
6055-j	Wm. C. Alden	Topographic map showing geologic field data, Dayton, Wyoming	n.d.
6055-k	Wm. C. Alden	Topographic map showing geologic field data, Fort McKinney, Wyoming	n.d.
6055-l	Wm. C. Alden	Topographic map showing geologic field data, Fort Steele, Wyoming	n.d.
6055-m	Wm. C. Alden	Topographic map showing geologic field data, Fremont Peak, Wyoming	n.d.
6055-n	Wm. C. Alden	Topographic map showing geologic field data, Grand Teton, Wyoming	n.d.
6055-o	Wm. C. Alden	Topographic map showing geologic field data, Grand Teton, Wyoming	n.d.
6055-p	Wm. C. Alden	Topographic map showing geologic field data, Cross Creek, Wyoming	n.d.
6055-q	Wm. C. Alden	Topographic map showing geologic field data, Gros Ventre, Wyoming	n.d.
6055-r	Wm. C. Alden	Topographic map showing geologic field data, Hanna, Wyoming	n.d.
6055-s	Wm. C. Alden	Topographic map showing geologic field data, Heartville, Wyoming	n.d.
6055-t	Wm. C. Alden	Topographic map showing geologic field data, Ishawoo, Wyoming	n.d.
6055-u	Wm. C. Alden	Topographic map showing geologic field data, Kirwin, Wyoming	n.d.
6055-v	Wm. C. Alden	Topographic map showing geologic field data, Laramie, Wyoming	n.d.
6055-w	Wm. C. Alden	Topographic maps showing geologic field data, Mt. Leidy, Wyoming (2 maps)	n.d.
6055-x	Wm. C. Alden	Topographic map showing geologic field data, Medicine Bow, Wyoming	n.d.
6055-y	Wm. C. Alden	Topographic map showing geologic field data, Meeteetse, Wyoming	1921-36
6055-z	Wm. C. Alden	Topographic map showing geologic field data, Oregon Basin, Wyoming	1921-36
6055-aa	Wm. C. Alden	Topographic map showing geologic field data, Saddleback Hills, Wyoming	n.d.
6055-bb	Wm. C. Alden	Topographic map showing geologic field data, Sheridan, Wyoming	n.d.
6055-cc	Wm. C. Alden	Topographic map showing geologic field data, Sherman, Wyoming	n.d.
6055-dd	Wm. C. Alden	Topographic map showing geologic field data, Walcott, Wyoming	n.d.
6055-ee	Wm. C. Alden	Topographic map showing geologic field data, Younts Peak, Wyoming	n.d.
6055-ff	Wm. C. Alden	Shoshone Irrigation map, Wyoming	n.d.
6056	Wm. C. Alden	Geologic notes by Alden on map published by the American Geographical Society of New York in 1928 titled "Channelled Seabland and Associated Features on the Columbia Plateau in Washington"	n.d.
6056-a	Wm. C. Alden	Topographic maps showing geologic field data, Hahns Peak, Wyoming	n.d.
6056-b	Wm. C. Alden	Topographic map showing geologic field data, Montpelier, Idaho	n.d.
6056-c	Wm. C. Alden	Topographic map showing geologic field data, Chopak, Idaho	n.d.
6056-d	Wm. C. Alden	Topographic map showing geologic field data, Rathdrum, Idaho	n.d.
6056-e	Wm. C. Alden	Topographic map showing geologic field data, Colville, Utah	n.d.
6056-f	Wm. C. Alden	Topographic map showing geologic field data, Gilbert Peak, Utah	n.d.
6056-g	Wm. C. Alden	Topographic map showing geologic field data, Hayden Peak, Utah	n.d.
6056-h	Wm. C. Alden	Topographic map showing geologic field data, Marsh Peak, Utah	n.d.
6056-i	Wm. C. Alden	Topographic map showing geologic field data, Salt Lake Utah	n.d.
6056-j	Wm. C. Alden	Topographic map showing geologic field data, Chelan, Washington	n.d.
6056-k	Wm. C. Alden	Topographic map showing geologic field data, Chiwaumuk, Washington	n.d.
6056-l	Wm. C. Alden	Topographic map showing geologic field data, Chopaka, Washington	n.d.
6056-m	Wm. C. Alden	Topographic map showing geologic field data, Colville, Washington	n.d.
6056-n	Wm. C. Alden	Topographic map showing geologic field data, Connell, Washington	n.d.
6056-o	Wm. C. Alden	Topographic maps showing geologic field data, Chewelah Washington [2 maps]	n.d.
6056-p	Wm. C. Alden	Topographic map showing geologic field data, Malaga, Washington	n.d.
6056-q	Wm. C. Alden	Topographic map showing geologic field data, Okanogan, Washington	n.d.
6056-r	Wm. C. Alden	Topographic map showing geologic field data, Osyoos, Washington	n.d.
6056-s	Wm. C. Alden	Topographic map showing geologic field data, Pasco, Washington	n.d.
6056-t	Wm. C. Alden	Topographic map showing geologic field data, Quincy, Washington	n.d.
6056-u	Wm. C. Alden	Topographic map showing geologic field data, Republic, Washington	n.d.
6056-v	Wm. C. Alden	Topographic map showing geologic field data, Spokane, Washington	n.d.
6056-w	Wm. C. Alden	Topographic map showing geologic field data, Washuena, Washington	n.d.
6056-x	Wm. C. Alden	Topographic map showing geologic field data, Wenatchee, Washington	n.d.
6056-y	Wm. C. Alden	Geologic annotation, Salmon National Forest, Idaho	n.d.
6056-z	Wm. C. Alden	Geologic reconnaissance map of the Colville Indian Reservation, Washington	n.d.

6056-zz	Wm. C. Alden	Geologic annotation, Colville National Forest, Washington	n.d.
11	Bailey Willis, Special Agent, Tenth Census	Iron Ore Samples, Lake Superior Region, Michigan	1879
49	L. E. Paddock, Special Agent	Iron Ore Samples, Lake Superior Region, Michigan	1887

## Appendix 12

Geologic Division - Microfiche Copies of Geologists' Field Notebooks, 1871-1969 (entry 173)

<u>Number</u> [multiple fiche]	<u>Compiler</u>	<u>Geographic areas or topics</u>	<u>Year(s)</u>
2	M. R. Campbell	Estellville and Bristol, Tennessee	1891
3	M. R. Campbell	Bristol, Tennessee	1891
4	M. R. Campbell	Estellville and Bristol, Virginia / Tennessee	1891
5	M. R. Campbell	Southwest Virginia/ and eastern Tennessee	1892
7 [3]	M. R. Campbell; and others	Pocahontas and Tazewell, Virginia / West Virginia	1893
8	M. R. Campbell	Tazewell, West Virginia	1894
9	M. R. Campbell	Tazewell, Pocahontas and Raleigh, Virginia / West Virginia	1894
10	M. R. Campbell	Raleigh and Hinton, West Virginia	1894
11	M. R. Campbell	Tazewell, Virginia / West Virginia	1894
12	M. R. Campbell	Raleigh, West Virginia	1894
13	M. R. Campbell	Raleigh and Hinton, West Virginia	n.d.
14	M. R. Campbell; T. Callaghan	Taxewell, Virginia / West Virginia	1894
15	M. R. Campbell; C. David White	Tazewell and Raleigh, Virginia / West Virginia	1894
16	M. R. Campbell	Tazewell, Virginia / West Virginia	1904
17	M. R. Campbell	Tazewell, Virginia / West Virginia	1894
18	M. R. Campbell; J. T. Callaghan	Tazewell, Virginia / West Virginia	1894
19	M. R. Campbell	Hinton, Raleigh and Kanawha Falls, West Virginia	1895
20	M. R. Campbell	Kanawha Falls and Raleigh, West Virginia	1895
21	M. R. Campbell	Raleigh, West Virginia	1895
22	M. R. Campbell	Raleigh, West Virginia	1895
23	M. R. Campbell	Kanawha Falls and Charleston, West Virginia	1895
24	M. R. Campbell	Kanawha Falls and Charleston, West Virginia	1895
25	M. R. Campbell	Kanawha Falls, West Virginia	1895
26	M. R. Campbell	Bristol, Virginia	1895
27	M. R. Campbell	New and Kanawha Rivers, West Virginia	1895
28	M. R. Campbell; W. C. Mendenhall	Oceana, West Virginia	1895
29 [2]	M. R. Campbell; W. C. Mendenhall	Raleigh and Kanawha Falls, West Virginia	1895
30 [2]	M. R. Campbell; W. C. Mendenhall	Raleigh and Kanawha Falls, West Virginia	1895
31 [2]	M. R. Campbell; W. C. Mendenhall	Raleigh and Kanawha Falls, West Virginia	1895
32 [2]	M. R. Campbell; W. C. Mendenhall	Raleigh and Kanawha Falls, West Virginia	1895
33 [2]	M. R. Campbell; W. C. Mendenhall	Kanawha Falls and Charleston, West Virginia	1895
34	M. R. Campbell; C. David White	Hinton and Raleigh, West Virginia	1895
35	M. R. Campbell	Richmond, Kentucky	1896
36	M. R. Campbell	London, Kentucky	1896
37	M. R. Campbell	Standingstone, Tennessee	1896
38	M. R. Campbell	Standingstone, Wartburg and Williamsburg, Tennessee / Kentucky	1896
40	M. R. Campbell	Williamsburg, Manchester and Beattyville, Ky.	1896
41	M. R. Campbell	Beattyville and Richmond, Ky.	1896
42	M. R. Campbell	Richmond, Ky.	1896
43	M. R. Campbell	New and Kanawha Rivers, West Virginia	1896
44	M. R. Campbell	Raleigh, West Virginia	1896
45	M. R. Campbell	Kentucky / Tennessee	1896
46	M. R. Campbell; Joseph A. Taff	Richmond, Kentucky	1896
47	M. R. Campbell; Joseph A. Taff	London, Kentucky	1896
48	M. R. Campbell; Joseph A. Taff	London, Kentucky	1896
49	M. R. Campbell; Joseph A. Taff	Standingstone, Tennessee	1896
50	M. R. Campbell; Joseph A. Taff	Standingstone and Wartburg, Tennessee	1896
51	M. R. Campbell; Joseph A. Taff	Wartburg, Williamsburg and London, Tennessee / Kentucky	1896
53	M. R. Campbell; W. C. Mendenhall	New and Kanawha Rivers, West Virginia	1896
54 [2]	M. R. Campbell; W. C. Mendenhall	Richmond, Kentucky	1896
55 [2]	M. R. Campbell; W. C. Mendenhall	London, Kentucky	1896
56 [2]	M. R. Campbell; W. C. Mendenhall	London and Standingstone, Tennessee / Kentucky	1896
57 [2]	M. R. Campbell; W. C. Mendenhall	Standingstone, Tennessee	1896
58 [2]	M. R. Campbell; W. C. Mendenhall	Standingstone, Williamsburg and London, Tennessee / Kentucky	1896
59 [2]	M. R. Campbell; W. C. Mendenhall	Beattyville and Richmond, Kentucky	1896
60	M. R. Campbell; W. C. Mendenhall	Beattyville and Richmond, Kentucky	1896
61	M. R. Campbell	Saylorsville, Beattyville and Prestonburg, Kentucky	1896
62	M. R. Campbell	Saylorsville and Beattyville, Kentucky	1897

63	M. R. Campbell	Prestonburg and Huntington, Kentucky / West Virginia	1897
64	M. R. Campbell	Huntington, West Virginia	1897
65	M. R. Campbell	Huntington and Charleston, West Virginia	1896
66	M. R. Campbell	Kingston and Warburg, Tennessee	1897
67	M. R. Campbell	Perisburg Earthquake, Virginia	1897
68	M. R. Campbell; L. C. Glenn	Beattyville, Saylorsville and Prestonburg, Kentucky	1897
69	M. R. Campbell; L. C. Glenn	Beattyville, Saylorsville and Prestonburg, Kentucky	1897
70	M. R. Campbell; L. C. Glenn	Prestonburg and Huntington, West Virginia	1897
71	M. R. Campbell; L. C. Glenn	Huntington and Charleston, West Virginia	1897
72	M. R. Campbell; L. C. Glenn	Charleston, West Virginia	1897
73 [2]	M. R. Campbell; W. C. Mendenhall	Beattyville, Saylorsburg and Prestonburg, Kentucky	1897
74	M. R. Campbell; W. C. Mendenhall	Beattyville and Saylorsville, Kentucky	1897
75 [2]	M. R. Campbell; W. C. Mendenhall	Huntington, West Virginia	1896
76 [2]	M. R. Campbell; W. C. Mendenhall	Huntington and Charleston, West Virginia	1897
77	M. R. Campbell	Raleigh, West Virginia	1898
77A	M. R. Campbell	Raleigh, West Virginia	1898
78	M. R. Campbell	Bristol, Virginia / Tennessee	1898
79	M. R. Campbell; C. H. White	Charleston and Oceana, West Virginia	1898
80	M. R. Campbell; C. H. White	Oceana, West Virginia	1898
81	M. R. Campbell; C. H. White	Charleston and Kanawha Falls, West Virginia	1898
82	M. R. Campbell; C. H. White	Virginia / Tennessee / West Virginia	1898
83	M. R. Campbell	Charleston, Kanawha Falls and Sutton, West Virginia	1899
84 [2]	M. R. Campbell	Kanawha Falls and Raleigh, West Virginia	1899
85	M. R. Campbell	Uniontown and Masontown, Pennsylvania	1900
86	M. R. Campbell	Uniontown and Masontown, Pennsylvania	1900
87	M. R. Campbell; Myron L. Fuller	Gaines and Elkland, Pennsylvania	1900
89	M. R. Campbell; Myron L. Fuller	Uniontown and Masontown, Pennsylvania	1900
90	M. R. Campbell; Myron L. Fuller	Uniontown and Masontown, Pennsylvania	1900
91	M. R. Campbell; Myron L. Fuller	Uniontown and Masontown, Pennsylvania	1900
92	Myron L. Fuller	Gaines and Elkland, Pennsylvania	1900
93	Myron L. Fuller	Gaines and Elkland, Pennsylvania	1900
95	M. R. Campbell; Myron L. Fuller	Boonville, Petersburg, and Carrollton, Indiana / Kentucky	1900
96	Myron L. Fuller	Gaines and Elkland, Pennsylvania	1900
97	M. R. Campbell; J. D. Irving	Uniontown and Masontown, Pennsylvania	1900
98	M. R. Campbell; J. D. Irving	Uniontown and Masontown, Pennsylvania	1900
99	M. R. Campbell; J. D. Irving	Uniontown and Masontown, Pennsylvania	1900
100	M. R. Campbell; J. D. Irving	Uniontown and Masontown, Pennsylvania	1900
101	M. R. Campbell; J. D. Irving	Uniontown and Masontown, Pennsylvania	1900
102	Myron L. Fuller; J. D. Irving	Gaines and Elkland, Pennsylvania	1900
103	M. L. Fuller; J. D. Irving	Gaines and Elkland, Pennsylvania	1900
106	M. R. Campbell; M. L. Fuller	Uniontown and Masontown, Pennsylvania - oil well data	1900
107	M. L. Fuller	Gaines and Elkland, Pennsylvania - oil well data	1900
108	M. R. Campbell; M. L. Fuller	Boonville, Indiana	1900
109	M. R. Campbell	Brownsville and Connellsville, Pennsylvania	1901
110	M. R. Campbell	Brownsville and Connellsville, Pennsylvania	1900
111	M. R. Campbell	Latrobe, Pennsylvania	1901
112	M. R. Campbell; L. C. Glenn	Brownsville and Connellsville, Pennsylvania	1900
113	M. R. Campbell; L. C. Glenn	Connellsville, Pennsylvania	1901
114	M. R. Campbell; Lester H. Woolsey	Latrobe, Pennsylvania	1901
115	M. R. Campbell; Lester H. Woolsey	Brownsville, Pennsylvania	1901
116	M. R. Campbell; Lester H. Woolsey	Brownsville, Pennsylvania	1901
117	M. R. Campbell; Lester H. Woolsey	Brownsville and Connellsville, Pennsylvania	1901
118	M. R. Campbell; Lester H. Woolsey	Brownsville and Connellsville, Pennsylvania	1901
119	M. R. Campbell; Lester H. Woolsey	Connellsville, Pennsylvania	1901
120	M. R. Campbell; Lester H. Woolsey	Connellsville and Latrobe, Pennsylvania	1901
121	G. B. Richardson	Latrobe, Pennsylvania	1901
122	M. R. Campbell; G. B. Richardson	Latrobe, Pennsylvania	1901
123	Myron L. Fuller	Gaines oil field, Pennsylvania.	1901
124	M. R. Campbell	Pennsylvania - oil well records	1901
125	M. R. Campbell	Latrobe, Pennsylvania	1902
126	M. R. Campbell	Kanawha Falls, West Virginia	1902
127	M. R. Campbell	Section along the Allegheny River and vicinity of Bradford, Pennsylvania	1903
137	M. R. Campbell; Ralph W. Howell	Valley coal fields, Virginia	1914
137-A	M. R. Campbell; Ralph W. Howell	Valley coal fields, Virginia	1914
137-B	M. R. Campbell; Ralph W. Howell	Valley coal fields, Virginia	1914
137-C	M. R. Campbell; Ralph W. Howell	Valley coal fields, Virginia	1914
137-D	M. R. Campbell	Valley coal fields, Virginia	1918, 1923
137-E	M. R. Campbell; Kent K. Kimball	Valley coal fields, Virginia	1923
137-F	M. R. Campbell	Valley coal fields, Virginia	1923
137-G	M. R. Campbell; Ralph W. Howell	Valley coal fields, Virginia	1923
137-H	M. R. Campbell	Valley coal fields, Virginia	1923
137-I	M. R. Campbell	Valley coal fields, Virginia	1924
182	M. R. Campbell; Lester H. Woolsey	Beaver, Pennsylvania	1902

224 [2]	Edson S. Bastin	Rockland, Maine	1905
225	Edson S. Bastin	Rockland, Maine	1905
226	Edson S. Bastin	Rockland, Maine	1905
227 [2]	Edson S. Bastin	Pegmatites and general geology, Maine	1906
228	Edson S. Bastin	Maine	1906
229 [2]	Edson S. Bastin	Maine	1906
230 [2]	Edson S. Bastin	Maine	1906
234	Charles Butts	Brownsville and Connellsville, Pennsylvania	1901
235	Charles Butts	Brownsville and Connellsville, Pennsylvania	1901
236	Charles Butts	Brownsville and Connellsville, Pennsylvania	1901
250	M. R. Campbell	Kittanning, Pennsylvania	1901
251	Charles Butts	Kittanning, Pennsylvania	1901
252	Charles Butts	Kittanning, Pennsylvania	1901
253	Charles Butts	Kittanning, Pennsylvania	1901
254	Charles Butts	Kittanning, Pennsylvania	1901
255	Charles Butts	Rural Valley, Pennsylvania	1902-3
256	Charles Butts	Rural Valley, Pennsylvania	1902-3
257	Charles Butts	Rural Valley, Pennsylvania	1902-3
258	Charles Butts	Rural Valley, Pennsylvania	1902-3
259	Charles Butts	Rural Valley, Pennsylvania	1902-3
260	Charles Butts	Rural Valley, Pennsylvania	1902
261	M. R. Campbell	Rural Valley, Pennsylvania	1902
301	C. David White	Kentucky / Tennessee	1911
302	C. David White	Rhode Island / Kentucky / Missouri / Texas	1911
303	C. David White	Colorado / New Mexico / Texas / Oklahoma / Kansas	1912
309 [3]	C. B. Hunt; Julian D. Sears; W. S. Pike; R. W. Brown; D. A. Andrews	Mount Taylor, New Mexico	1930
319 [2]	Wilmut H. Bradley; R. D. Ohrenschall	Uinta Basin, Colorado / Utah	1925
319-A [2]	Wilmut H. Bradley; R. D. Ohrenschall	Uinta Basin, Colorado / Utah	1925
319-B	Wilmut H. Bradley	Uinta Basin, Colorado / Utah	1925
319-C	Wilmut H. Bradley	Uinta Basin, Colorado / Utah	1925
320 [3]	Wilmut H. Bradley; C. E. Erdmann	Rio Blanco County, Colorado	1924
321	Wilmut H. Bradley; Albert E. Wood	Steuben, Yates and adjacent counties, New York	1934
322	Wilmut H. Bradley; Albert E. Wood	Steuben, Yates and adjacent counties, New York	1934
323 [2]	Wilmut H. Bradley; D. W. St. Clair	Steuben, Yates and adjacent counties, New York	1935
324 [2]	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1934
325 [2]	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1934
326	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1934
327 [2]	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1935
328 [2]	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1935
329	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1935
330	Wilmut H. Bradley	Steuben, Yates and adjacent counties, New York	1936
350-A	George F. Becker	Hyberbolic cycloids	n.d.
350-B	George F. Becker	The Comstock Lode, Nevada	1880
350-C	George F. Becker	Sierra Nevada mines, Utah / Nevada	1880
350-D [2]	George F. Becker	Determination of specimens from Washington / Oregon / California / Nevada / Arkansas / Utah / Wyoming	1876
350-E [4]	George F. Becker	Handwritten lectures and newspaper articles regarding scientific lectures given by Becker	various
350-F [2]	George F. Becker	Notes on lead	n.d.
350-G	George F. Becker	Notes on tin	c. 1877
350-H [2]	George F. Becker	Structural results of faulting	n.d.
350-I	George F. Becker	Index to slides, Comstock Lode, Nevada	n.d.
350-K [2]	George F. Becker; H. W. Turner	Eruptive rocks; Great Western Quicksilver Mine; Sulphur Bank	1883-85
350-L [3]	George F. Becker; Waldemar Lindgren	Basalts, andesites and granites, California / Nevada	1886
350-M [5]	George F. Becker	Classification of silver metals; silicates; gold production in California	n.d.
350-N [5]	George F. Becker	Assorted Notes	n.d.
350-O [4]	George F. Becker; Waldemar Lindgren	Assorted Notes	n.d.
350-P [5]	George F. Becker	Assorted Notes	n.d.
350-Q [3]	George F. Becker	Visalia, Mineral, King, Yosemite, California	1889
350-R [2]	George F. Becker	Mormon Bar, Yosemite, Tiogo Mine, Mono Lake, Virginia Pass, Matterhorn Canyon and Hetch Hetchy, California	1889
350-S [3]	George F. Becker	Itinerary from Rickey's to Markleeville, Alpine County to Charity Valley, White Dike near Clark's Fork and Meadow Dam Lake, California	1890
350-T [2]	George F. Becker	Mother Lode District, California	1897
350-U [3]	George F. Becker	Notes on mines in the Washoe District, Nevada	n.d.
420	M. R. Campbell; N. M. Fenneman	Yampa coal field, Colorado	1905
423 [2]	H. S. Gale	Grand Hogback and Danforth Hills, Colorado	1906
424 [2]	H. S. Gale; Arthur K. Adams	Grand Hogback and Danforth Hills, Colorado	1906
425	H. S. Gale; Arthur K. Adams	Grand Hogback coal field, Colorado	1906
426 [2]	H. S. Gale; R. D. Crawford	Coal fields, Colorado	1906

427	H. S. Gale; R. D. Crawford	Colorado	1906
523	C. Whitman Cross; Samuel F. Emmons	Montrose, west of Ouray, Colorado	1904
539	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1904
540 [2]	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1904-5
541 [2]	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1904-5
542 [2]	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1904-5
543	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1905
551 [2]	C. Whitman Cross; Albert Johannsen	San Cristobal, Colorado	1906
552	C. Whitman Cross; Lester H. Woolsey	San Cristobal, Colorado	1906
553	C. Whitman Cross; G. I. Finlay	San Cristobal, Colorado	1906
609 [3]	George H. Eldridge	Created Butte, Colorado	1885
610	George H. Eldridge; L. G. Eakins	Created Butte, Colorado	1885
611 [3]	George H. Eldridge	Created Butte, Colorado	1885
612	Samuel F. Emmons; George H. Eldridge	Created Butte, Colorado	1885
623 [3]	George H. Eldridge	Created Butte and Anthracite, Colorado	1888
624	Samuel F. Emmons; L. G. Eakins	Anthracite, Colorado	1888
625	Samuel F. Emmons; L. G. Eakins	Created Butte and Anthracite, Colorado	1886
715	A. C. Veatch	Oil district, Louisiana n.d.	
716	A. C. Veatch	Oil and gas district, Louisiana	1908
717	A. C. Veatch	Personal notes and memorandums	n.d.
718 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
719 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
720 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
721 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
722 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
723 [2]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado	1873
724 [3]	Archibald R. Marvine; Ferdinand V. Hayden	Middle Park Division, Colorado / Wyoming	1874
725 [2]	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
726 [2]	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
727 [2]	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
728 [2]	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
729 [2]	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
730	Archibald R. Marvine; Ferdinand V. Hayden	First Division, Colorado	1874
731 [3]	F. M. Endlich; Ferdinand V. Hayden	Colorado	1875
732 [2]	F. M. Endlich; Ferdinand V. Hayden	Colorado/ New Mexico	1875
733	F. M. Endlich; Ferdinand V. Hayden	Colorado	1875
734 [2]	F. M. Endlich; Ferdinand V. Hayden	Colorado	1873
735 [2]	F. M. Endlich; Ferdinand V. Hayden	Colorado	1873
736 [2]	F. M. Endlich; Ferdinand V. Hayden	Colorado	1874
737 [2]	F. M. Endlich; Ferdinand V. Hayden	Colorado	1874
830-C [2]	Archibald R. Marvine	Colorado	1873
830-D [2]	Archibald R. Marvine; G. B. Chittenden	Colorado	1874
973	Waldemar Lindgren	Silver City, Idaho	1899
986 [2]	Waldemar Lindgren	Marysville and vicinity, California	1886
988	Waldemar Lindgren	Marysville and vicinity, California	1886
989 [3]	Waldemar Lindgren	Goldbelt region, Nevada and Sierra Counties, California	1886
990 [2]	Waldemar Lindgren	Goldbelt region, California	1886
991 [2]	Waldemar Lindgren	Goldbelt region, California	1886
992 [2]	Waldemar Lindgren	Goldbelt region, California	1886
993 [3]	Waldemar Lindgren	Goldbelt region, Nevada County, California	1885
994 [2]	Waldemar Lindgren	Goldbelt region, Nevada and Yuba Counties, California	1886-87
995 [3]	Waldemar Lindgren	Goldbelt region, Yuba, Placer and Nevada Counties, California	1887
996 [2]	Waldemar Lindgren	Goldbelt region, Placer, Nevada and Sierra Counties, California	1887
997 [2]	Waldemar Lindgren	Goldbelt region, Nevada, Placer and Yuba Counties, California	1887
998 [3]	Waldemar Lindgren	Goldbelt region, Yuba, Sutter and Nevada Counties, California	1888
999 [3]	Waldemar Lindgren	Goldbelt region, Placer and Eldorado Counties, Calif.	1888
1000 [3]	Waldemar Lindgren	Goldbelt region, Placer, Nevada and Eldorado Counties, California	1888
1001 [3]	Waldemar Lindgren	Goldbelt region, Eldorado County, California	1888
1002 [3]	Waldemar Lindgren	Goldbelt region, Sacramento, Placer and Eldorado Counties, California	1889
1003 [3]	Waldemar Lindgren	Goldbelt region, Eldorado and Placer Counties, Calif.	1889
1004 [2]	Waldemar Lindgren	Goldbelt region, Sacramento, Eldorado and Placer Counties, California	1889
1005 [3]	Waldemar Lindgren	Goldbelt region, Eldorado County, California	1890
1006 [3]	Waldemar Lindgren	Goldbelt region, Placer, Yuba and Nevada Counties, California	1890-91
1007 [2]	Waldemar Lindgren	Goldbelt region, Nevada, Yuba and Sierra Counties, California	1891
1008 [2]	Waldemar Lindgren	Goldbelt region, Nevada and Placer Counties, Calif.	1891
1009 [3]	Waldemar Lindgren	Goldbelt region, Nevada, Sacramento and Eldorado Counties, California	1891
1010 [2]	Waldemar Lindgren	Goldbelt region, Eldorado County, California	1893

1012 [2]	Waldemar Lindgren	Smartsville, California	n.d.
1014 [3]	Waldemar Lindgren	Nevada City and Grass Valley, California	n.d.
1016	Waldemar Lindgren	Placerville, California	n.d.
1016-A	Waldemar Lindgren	Placerville, California	1901
1018	Waldemar Lindgren	Sacramento, California	n.d.
1019	Waldemar Lindgren	Colfax, California	n.d.
1020 [2]	Waldemar Lindgren	Colfax, California	n.d.
1022	Waldemar Lindgren	California	n.d.
1028	Waldemar Lindgren	Markleeville, California / Nevada	n.d.
1029 [2]	George F. Becker; H. W. Turner	Goldbelt, Alpine County, California	1887
1030 [3]	George F. Becker; H. W. Turner	Goldbelt, Alpine County, California	1888
1031 [2]	H. W. Turner	Goldbelt region, Markleeville, California	1887
1032 [2]	Waldemar Lindgren	Pyramid Peak, California	1894
1033 [2]	Waldemar Lindgren	Pyramid Peak, California	1894
1036	Waldemar Lindgren	Pyramid Peak, California	n.d.
1037 [2]	Waldemar Lindgren	California / Washington	1895
1040 [2]	Waldemar Lindgren; J. M. Boutwell	Foresthill to Centerville, California	1901
1041	Waldemar Lindgren; J. M. Boutwell	Clifton, Arizona	1901-2
1042 [2]	Waldemar Lindgren	California / Nevada	1885
1043	Waldemar Lindgren	Washington	1906
1045 [2]	Waldemar Lindgren	Boise, Idaho	1896
1046	Waldemar Lindgren; E. C. E. Lord	Boise, Idaho	1896
1047	Waldemar Lindgren	Idaho Basin	1896
1049	Waldemar Lindgren	Boise, Idaho	1896
1050	Waldemar Lindgren	Silver Crown District, Wyoming	1896
1051 [2]	Waldemar Lindgren	Silver City, Idaho	1897
1052 [2]	Waldemar Lindgren	Silver City, Idaho	1897
1053 [2]	Waldemar Lindgren; F. C. Schrader	Silver City, Idaho	1897
1054 [2]	Waldemar Lindgren; F. C. Schrader	Silver City, Idaho	1897
1055 [2]	Waldemar Lindgren; F. C. Schrader	Idaho reconnaissance	1897
1056 [2]	Waldemar Lindgren; N. F. Drake	Silver City and Nampa, Idaho	1897
1058	Waldemar Lindgren	Catalog of collections, Silver City and Nampa, Idaho	1896-7
1059	Waldemar Lindgren	Hailey and Wood River District, Idaho	1896
1060 [2]	Waldemar Lindgren; W. A. Prichard	Hailey and Wood River District, Idaho	1898
1061 [3]	Waldemar Lindgren	Bitter Root Mountains, Idaho	1899
1062 [2]	Waldemar Lindgren	Bitter Root Mountains, Idaho	1899
1063 [2]	Waldemar Lindgren; H. R. Johnson	Bitter Root Mountains, Idaho	1899
1064	Waldemar Lindgren	Bitter Root Mountains, Idaho / Montana	1899
1065 [2]	Waldemar Lindgren	Eastern Oregon gold belt	1900
1066 [2]	Waldemar Lindgren	Eastern Oregon gold belt	1900
1067 [2]	Waldemar Lindgren	Eastern Oregon gold belt	1900
1068	Waldemar Lindgren	Eastern Oregon gold fields	1900
1069 [2]	Waldemar Lindgren	Clifton, Arizona	1901-2
1070 [2]	Waldemar Lindgren	Clifton, Arizona	1901-2
1071 [2]	Waldemar Lindgren	Clifton, Arizona	1901-2
1074 [4]	Waldemar Lindgren	Clifton, Arizona	1901-2
1075 [2]	Waldemar Lindgren	Sierra Nevada, California	1901
1076 [2]	Waldemar Lindgren	Sierra Nevada, California	1901
1077	Waldemar Lindgren	Auriferous gravels, California	1902
1078 [2]	Waldemar Lindgren	Cripple Creek, Colorado	1903
1079	Waldemar Lindgren	Cripple Creek, Colorado	1903
1080 [2]	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1903
1081 [2]	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1903
1082 [2]	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1903
1083	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1903
1084 [2]	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1904
1085 [2]	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1904
1086	Waldemar Lindgren; L. C. Graton	Cripple Creek, Colorado	1904
1087 [2]	Waldemar Lindgren	Mines of Colorado	1904
1088	Waldemar Lindgren	Mines of Colorado; Cripple Creek	1904
1089 [2]	Waldemar Lindgren	Santa Fe and San Pedro, New Mexico	1905
1090	Waldemar Lindgren	Dora Ana and Luna mines, New Mexico	1905
1091 [2]	Waldemar Lindgren	Colorado/ Nevada / New Mexico / California	1906
1092 [2]	Waldemar Lindgren	Colorado / Arizona	1906-7
1093	Waldemar Lindgren	Rawhide and Aspen areas, Colorado / Nevada	1908
1094	Waldemar Lindgren	Sweden / Colorado / South Dakota	1910-11
1095	Waldemar Lindgren	Dahlonega minerals, Georgia	1906
1096	Waldemar Lindgren	Dahlonega minerals, Georgia	n.d.
1097	C. Whitman Cross; C. W. Purington	La Plata, Colorado	1896
1098	C. W. Purington	La Plata, Colorado	1896
1099 [2]	C. Whitman Cross; C. W. Purington	Rico and Telluride, Colorado	1896
1100	C. Whitman Cross; C. W. Purington	Telluride, Colorado	1896
1101	C. Whitman Cross; C. W. Purington	Telluride, Colorado	1896
1102	C. Whitman Cross; C. W. Purington	Telluride, Colorado	1896
1103	C. Whitman Cross; C. W. Purington	Telluride, Colorado	1896
1104 [2]	C. Whitman Cross; C. W. Purington	Telluride, Colorado	1896
1107	Samuel F. Emmons; C. W. Purington	Rico, Colorado	1898

1131 [3]	James Gilluly; Chester W. Washburne	New York	1934
1132 [2]	James Gilluly; Chester W. Washburne	Gouverneur, New York	1934
1133 [3]	James Gilluly; Chester W. Washburne	Gouverneur, New York	1934
1134	James Gilluly; Chester W. Washburne	Gouverneur, New York	1934
1135	James Gilluly; Chester W. Washburne	Gouverneur, New York	1934
1150	Samuel F. Emmons	Mexico / Missouri / Arkansas	1899-1900
1154	Samuel F. Emmons	British Columbia	1900-03
1157	Samuel F. Emmons	9th International Geological Congress, Vienna, Italy	1903
1158	Samuel F. Emmons	Reference Collection and memorandums	1902-4
1162	Samuel F. Emmons	Uinta Mountains; Montana / Utah / Nevada;	
		Mexican Congress	1906
1163	Samuel F. Emmons	Cananea, Mexico	1907
1166	Samuel F. Emmons; Ellsworth Huntington	Coolville, Utah	1902
1188 [2]	M. R. Campbell	Cleveland and Kingston, Tennessee	1889
1230 [2]	G. O. Smith; W. C. Mendenhall	Mt. Stuart and Snoqualmie, Washington	1899
1231	G. O. Smith; W. C. Mendenhall	Snoqualmie, Washington	1899
1264	Charles Willard Hayes; R. E. Dodge	Columbia and Linden, Tennessee	1894-95
1265	Ralph Arnold	Santa Clara Valley District, California	1906
1266 [2]	Ralph Arnold	Santa Maria and Summerland Districts, California	1906
1267 [2]	Ralph Arnold	Santa Cruz and Coalinga Districts, California	1907
1268 [2]	Ralph Arnold	Coalinga, California	1907
1269	Ralph Arnold	Coalinga and McKittrick Districts, California	1907
1270 [2]	Ralph Arnold	Midway and Sunset, California	1907-8
1271 [2]	Ralph Arnold	Devil's Den, Temblor, McKittrick, Sunset and Carrizo Plains Districts, California	1908
1328 [2]	William C. Alden	Chicago and Calumet, Illinois	1896
1329	William C. Alden	Chicago and Calumet, Illinois	1896
1330 [2]	William C. Alden	Chicago and Calumet, Illinois	1897
1331	William C. Alden	Chicago Folio, Riverside Sheet, Illinois	1897
1332	William C. Alden	Riverside Sheet, West Desplaines River, Illinois	1897
1341	Raphael Pumpelly; John E. Wolff	North Adams, Berkshire County, Massachusetts	1885
1342 [2]	Raphael Pumpelly; John E. Wolff	North Adams, Berkshire County, Massachusetts	1885
1343	Raphael Pumpelly; John E. Wolff	North Adams, Berkshire County, Massachusetts	1885
1344 [2]	Raphael Pumpelly; John E. Wolff	North Adams, Berkshire County, Massachusetts	1885-86
1345	Raphael Pumpelly; John E. Wolff	Greylock, Massachusetts	1885
1346	Raphael Pumpelly; John E. Wolff	Greylock, Massachusetts	1885
1347 [2]	Raphael Pumpelly; John E. Wolff	Greylock, Massachusetts	1885
1348 [2]	Raphael Pumpelly; John E. Wolff	Greylock, Massachusetts	1887
1349	Raphael Pumpelly; John E. Wolff	Greylock, Massachusetts	1887-89
1350 [2]	Raphael Pumpelly; John E. Wolff	Wallford, Vermont	1888
1351	Raphael Pumpelly; John E. Wolff	Bennington, Vermont	1897
1352	Raphael Pumpelly; John E. Wolff	Bennington, Vermont	1897
1353	Raphael Pumpelly; John E. Wolff	Bennington, Vermont	1898
1354	Raphael Pumpelly; John E. Wolff	Taconic, Vermont / Massachusetts	1899-1901
1356	Raphael Pumpelly; John E. Wolff	Wilmington, Vermont	1901
1357	Raphael Pumpelly; John E. Wolff	Wilmington, Vermont	1901
1358	Raphael Pumpelly; John E. Wolff	Wilmington, Vermont	1901
1359	Raphael Pumpelly; John E. Wolff	Equinox, Vermont / Massachusetts	1901
1360	Raphael Pumpelly; B. T. Putnam	North Adams, Berkshire County, Massachusetts	1885
1361	Raphael Pumpelly; B. T. Putnam	North Adams, Berkshire County, Massachusetts	1885
1362 [2]	Raphael Pumpelly; John E. Wolff; B. T. Putnam	North Adams, Berkshire County, Massachusetts	1886
1363 [2]	Raphael Pumpelly; John E. Wolff;		
	C. W. Beals, Jr.	Rutland, Vermont	1888
1364 [2]	Raphael Pumpelly; John E. Wolff;		
	C. W. Beals, Jr.	Rutland, Vermont	1888
1365	Raphael Pumpelly; John E. Wolff;		
	C. W. Beals, Jr.	Rutland, Vermont	1888
1366 [2]	Raphael Pumpelly; John E. Wolff;		
	C. W. Beals, Jr.	Rutland, Vermont	1890
1367 [2]	Raphael Pumpelly; John E. Wolff; C. L. Whittle	Greylock, Maine / Vermont	1887
1368	Raphael Pumpelly; John E. Wolff; C. L. Whittle	Rutland, Vermont	1890
1369	Raphael Pumpelly; John E. Wolff; C. L. Whittle	Rutland, Vermont	1891
1370	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1891
1371	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1891
1372	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1891
1373	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1891
1374	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1892
1375 [2]	Raphael Pumpelly; John E. Wolff; M. J. Veal	Rutland, Vermont	1892
1375-A [2]	John E. Wolff	Rutland, Vermont	1889-90
1376	Raphael Pumpelly; John E. Wolff; H. Boynton	Bennington, Vermont	1897-98
1377 [2]	Raphael Pumpelly; John E. Wolff;		
	James Walter; J. W. Goldthwait	Equinox and Wilmington, Vermont	1901
1464 [2]	J. Fred Hunter	Uncompahgre and Gunnison Canyon, Colorado	1911
1482	James Gilluly; C. E. Park	Baker Valley, Oregon	n.d.
1483 [2]	James Gilluly	Arizona	1933
1484 [2]	James Gilluly	Arizona	1934
1485 [2]	James Gilluly	Arizona	n.d.

1486 [3]	James Gilluly	Ajo, Arizona	1932-34
1512	Charles Willard Hayes	Sewanee, Tennessee	1893
1524	Charles Willard Hayes; R. C. Dodge	Calhoun and Cleburne Counties, Alabama	1895
1529	Charles Willard Hayes	Arkansas Baxite	1900
1530	Charles Willard Hayes	Clays, Louisiana / Arkansas / Tennessee	1900
1531	Charles Willard Hayes	Texas oil fields	1901
1532	Charles Willard Hayes	Texas oil fields	1901
1533	Charles Willard Hayes	Reconnaissance, Colorado / Utah / Idaho	1903
1534	Charles Willard Hayes	Flat River Lead District, Missouri	1905
1538	Charles Willard Hayes; M. R. Campbell	Cleveland and Murphy, Tennessee / North Carolina	1889
1539 [2]	M. R. Campbell; C. W. Hayes	Cleveland and Dalton, Georgia / Tennessee	1890
1540 [2]	M. R. Campbell; C. W. Hayes	Dalton, Ringgold, Rome, Ft. Payne, Tallapoosa, and Cartersville, Georgia / Alabama / Tennessee	1890
1542	Charles Willard Hayes; M. R. Campbell	Kingston and Cleveland, Tennessee	1890
1542-A	M. R. Campbell	Deep River coal fields, North Carolina	1922
1542-C	M. R. Campbell	Deer Creek coal field, Arizona	1903
1543 [5]	Edson S. Bastin	Eastport, Maine	1907-10
1544	Edson S. Bastin	Eastport, Maine	1907-10
1545	Edson S. Bastin	Eastport, Maine	n.d.
1729	John E. Wolff; Alfred H. Brooks	Raritan, New Jersey	1895
1729-A	Arthur C. Spencer; Alfred H. Brooks; John E. Wolff	Franklin Furnace, New Jersey	1895-96
1729-E	Arthur C. Spencer; Alfred H. Brooks; John E. Wolff	Franklin Furnace, New Jersey	1896
1786	Charles Willard Hayes	Phosphate Region, Tennessee	1894
1866	Waldemar Lindgren	Gold Belt Region, California	n.d.
1867	Waldemar Lindgren	Gold Belt Collection, Placer County, California	n.d.
1868	Waldemar Lindgren	Gold Belt Collection, Yuba County, California	n.d.
1869	Waldemar Lindgren	Gold Belt Collection, Eldorado County, California	n.d.
1870	Waldemar Lindgren	Gold Belt Collection, Alpine County, California	n.d.
1871 [2]	Waldemar Lindgren	Gold Belt Collection, Nevada County, California	n.d.
1872	Waldemar Lindgren	Gold Belt Collection, Sacramento County, California	n.d.
1873	Waldemar Lindgren	Gold Belt Collection, Sutter County, California	1873
1887	Joseph A. Taff; Alfred H. Brooks	Buckhannon, West Virginia	1895
1888	Joseph A. Taff; Alfred H. Brooks	Buckhannon, West Virginia	1895
1889	Joseph A. Taff; Alfred H. Brooks	Buckhannon, West Virginia	1895
1890	Joseph A. Taff; Alfred H. Brooks	Buckhannon, West Virginia	1895
1891	Joseph A. Taff; Alfred H. Brooks	Buckhannon, West Virginia	1895
1892	Joseph A. Taff; Alfred H. Brooks	Buckhannon and Sutton, West Virginia	1895
1912 [2]	W. C. Mendenhall	Corona, California	1905
1913	W. C. Mendenhall	Corona, California	1906
1914	W. C. Mendenhall	Corona, south California / Yuba and American Rivers, north California	1910
1917	W. C. Mendenhall; C. H. White	Corona, California	1903
1918	W. C. Mendenhall; C. H. White	Elsinore and San Bernardino, California	1903
1919 [2]	W. C. Mendenhall; W. O. Clark	Corona, California	1906
1920	W. C. Mendenhall; W. O. Clark	Corona, California	1906
1921	W. C. Mendenhall; H. R. Johnson	Corona and Santa Ana, California	1906
1921-A [2]	W. C. Mendenhall; E. S. Larsen	Corona, California	1906
1921-B [2]	W. C. Mendenhall; E. S. Larsen	Corona, California	1906
1922 [2]	W. C. Mendenhall; E. S. Larsen	Corona, California	1906
1923	W. C. Mendenhall; E. S. Larsen	Corona, California	1906-7
1924	W. C. Mendenhall; E. S. Larsen	Corona, California	1907
1925	W. C. Mendenhall; E. S. Larsen	Corona, California	1910
1942	Julian D. Sears and others	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1943 [2]	Julian D. Sears; T. A. Hendricks	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1944	Julian D. Sears; H. O. Debeck	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1945 [2]	Julian D. Sears; A. W. Quinn	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1946	Julian D. Sears; W. S. Pike, Jr.	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1947 [2]	Julian D. Sears	Coal fields from Gallop eastward to Mt. Taylor, New Mexico	1929
1953-B	Edson S. Bastin	Clear Creek and Gilpin, Colorado - mills, flow sheets	n.d.
1961 [3]	Albert C. Peale	Field notes and diary from permanent camp to Yellowstone Lake, Wyoming	1871
1963 [2]	A. R. Marvin	Denver, Colo.	1873
1964	Albert C. Peale; W. R. Taggart	South Park Division, Colorado	1873
1965 [2]	Albert C. Peale; Ferdinand V. Hayden	South Park Division, Colorado	1873
1966 [3]	Albert C. Peale	South Park Division, Colorado	1873
1967	Albert C. Peale; Ferdinand V. Hayden	South Park Division, Colorado	1873
1968 [2]	Albert C. Peale; Ferdinand V. Hayden	South Park Division, Colorado	1873
1969 [3]	Albert C. Peale	Eagle, Colorado	1874

1970	Albert C. Peale; Ferdinand V. Hayden	Eagle, Colorado	1874
1971	Albert C. Peale	Lake Creek, Gunnison River, Indian Creek, Colorado	1875
1972 [2]	Albert C. Peale	Colorado	1875
1973	Albert C. Peale; Ferdinand V. Hayden	San Miguel and Book Cliffs, Colorado	1876
1974 [2]	Albert C. Peale; Ferdinand V. Hayden	Green River Diversion, Wyoming / Colorado	1877
1975 [2]	A. C. Peale	Mostly Yellowstone Park, Wyoming	1878
1976 [2]	A. C. Peale	Yellowstone Park, Wyoming	1878
1977 [2]	A. C. Peale	Yellowstone Park, Wyoming	1878
1978	A. C. Peale	Gallatin and Yellowstone Park, Wyoming / Montana	1878
1980 [2]	A. C. Peale	Bismarck, North Dakota	1883
1981	A. C. Peale	Three Forks, Montana	1884
1982	A. C. Peale	Livingston, Montana	1885
1984	A. C. Peale	Hills east of Ft. Ellis, Montana	1885
1986	A. C. Peale	Three Forks, Montana	1886
1987 [2]	A. C. Peale	Three Forks, Montana	1887
1988	A. C. Peale	Three Forks, Montana	1887
1989	A. C. Peale	List of photographic exposures, Montana	1888
1990	A. C. Peale	Three Forks, Montana	1888
1991	A. C. Peale	Three Forks, Montana	1888
1992	A. C. Peale	Three Forks, Montana	1889
1993	A. C. Peale	Three Forks, Montana	1889
1994	A. C. Peale	Three Forks, Montana	1889
1996	A. C. Peale	Three Forks, Montana	1890
1997	A. C. Peale	Three Forks, Montana	1890
1998	A. C. Peale	Three Forks, Montana	1891
1999 [2]	A. C. Peale	Livingston, Three Forks and vicinity, Montana	1891
2000	A. C. Peale	North Dakota	1907
2001	A. C. Peale	Record of fossils collected by Knowlton and Peale, North Dakota	1907
2003	A. C. Peale	Wyoming	1910
2005	A. C. Peale	California	1881
2006	A. C. Peale	Various Areas	n.d.
2007	A. C. Peale	Various Areas	n.d.
2010	A. C. Peale	List of recipients of the 1875 Annual Report	1875
2011	A. C. Peale	Mineral waters	n.d.
2014	A. E. Brown; Ferdinand V. Hayden	Montana / Wyoming	1872
2061-A	Adolph Knoph; E. L. Jones, Jr.	Yerington, Nevada	1914
2077-P [2]	N. H. Darton	Passaic, Paterson, Harlem and Tarrytown, NJ/ N. Y.	1885
2078 [2]	N. H. Darton	Newark Group, Green Pond Mountain, dikes of NW. New Jersey	1886
2079	G. K. Gilbert; N. H. Darton	Central Appalachian Region, Virginia	1887
2080	G. K. Gilbert; N. H. Darton	Staunton, Virginia	1888-89
2081	W. J. McGee; N. H. Darton	East Washington D.C. / Maryland	1889-91
2082 [2]	N. H. Darton	Washington D.C. / Maryland / Virginia	1895
2084 [2]	N. H. Darton	Maryland / Virginia	1890-93
2085 [2]	N. H. Darton	Maryland / Virginia/ Delaware - coastal plain	1891-92
2086 [3]	N. H. Darton	Mostly Baltimore, Maryland	1890-91
2087 [2]	N. H. Darton	Maryland / Virginia	1891-94
2088	W. J. McGee; N. H. Darton	South Carolina coastal plain / Florida phosphates	1890-95
2089	N. H. Darton	Piedmont, Maryland / West Virginia	1894
2090	N. H. Darton	Piedmont, Maryland / West Virginia	1894
2091 [2]	N. H. Darton	Franklin and Monterey, Virginia / West Virginia	1895-96
2093 [2]	W. J. McGee; James Hall; N. H. Darton	New York State Geological Map	1892-93
2095 [2]	N. H. Darton; C. A. Fisher; J. E. McFarland	Lincoln Sheet, Nebraska	1896-97
2096 [2]	N. H. Darton; C. A. Fisher	Wood River and Holdrege, Nebraska - well records	1896
2098	N. H. Darton; J. E. McFarland	South Dakota / Nebraska / Wyoming - well records	1896
2100 [2]	N. H. Darton; C. A. Fisher	Scotts Bluff, Nebraska	1897
2101 [2]	N. H. Darton; C. A. Fisher; J. E. McFarland	Nebraska	1897
2102 [2]	N. H. Darton; C. A. Fisher	Nebraska	1896
2103 [2]	N. H. Darton; C. A. Fisher	Nebraska - wells and irrigation	1897
2108 [2]	F. H. Newell; N. H. Darton	Nebraska / South Dakota / Colorado / Wyoming	1897
2113	N. H. Darton	South Dakota	1898-99
2114	N. H. Darton; George B. Richardson	Edgemont, Newcastle, Sundance, Wyoming / South Dakota	1899-1900
2115	N. H. Darton; George B. Richardson	Wyoming / South Dakota	1899
2116	N. H. Darton	Newcastle, Edgemont, and Lance Creek, Wyoming	1899
2116-A [2]	N. H. Darton; W. S. T. Smith	Edgemont, South Dakota	1900
2117	N. H. Darton; George B. Richardson; and others	Hermosa, South Dakota	1899
2118	N. H. Darton; W. S. Tangier Smith	Sundance and Devils Tower, Wyoming	1900
2119	N. H. Darton	Wyoming / South Dakota	1900
2120	F. H. Newell; N. H. Darton	Big Bad Lands and eastward, South Dakota	1901-2
2122	N. H. Darton	Wyoming	1901-2
2124	N. H. Darton; C. A. Fisher	Wyoming	1903
2125	A. J. Johanson	Dayton-Ft. McKinney, Big Horn Mountains, Wyoming	1902

2126 [2]	N. H. Darton; C. A. Fisher	Dayton-Ft. McKinney, Big Horn Mountains, Wyoming	1901
2127	N. H. Darton; C. A. Fisher	Bald Mountain, Big Horn Mountains, Wyoming	1904
2128 [2]	N. H. Darton; C. A. Fisher	Patrick, Goshen Hole, Hartville, Scotts Bluff, Wyoming / Nebraska	1902
2129	N. H. Darton; C. E. Siebenthal; W. S. T. Smith	Seoul Colorado	1900-4
2130-A [2]	N. H. Darton; W. S. T. Smith	Higbee and Timpus sheets, Colorado / Hartville plat, Wyoming	1900
2131	N. H. Darton	St. Xavier, Montana	1904
2132	N. H. Darton; C. A. Fisher	Wyoming	1905
2134	N. H. Darton; E. G. Woodruff	Owl Creek Mountains, Wyoming	1905
2135	N. H. Darton	South end Big Horn Mountains, Wyoming	1905
2136	N. H. Darton	Laramie Basin, Wyoming	1906
2137	N. H. Darton; C. A. Fisher	Northern Big Horn Mountains, Wyoming	1905
2138	N. H. Darton; and others	Southern Big Horn Mountains, Wyoming	1904-5
2139	N. H. Darton; E. G. Woodruff	Central Wyoming / Carbon County, Missouri	n.d.
2140 [2]	N. H. Darton	Central Wyoming	1903
2145	N. H. Darton; E. H. Barbour	Northern Nebraska / Southern South Dakota	1900
2146 [2]	Cleophas C. O'Harra	Rapid, South Dakota	1899-1900
2148	N. H. Darton	Virginia	1909-10
2149	J. A. Holmes; N. H. Darton	Notes on building materials	1909
2150	J. A. Holmes; N. H. Darton	Portland, Oregon	1907
2151-A	N. H. Darton; C. E. Siebenthal	Laramie and Sheridan, Wyoming	1905
2152	N. H. Darton; Cleophas C. O'Harra	Aladdin, Wyoming	1902
2154	N. H. Darton; Cleophas C. O'Harra	Belle Fourche, South Dakota	1906
2155	Frederick L. Ransome	New Jersey / Pennsylvania	1903
2156	F. H. Newell; N. H. Darton	New Mexico / Arizona	1901-3
2158 [2]	J. A. Holmes; N. H. Darton	Coal field, southern Illinois	1912-13
2159 [2]	N. H. Darton	Deming and Luna Counties, New Mexico	1910-13
2162 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1893
2163 [2]	T. C. Chamberlain; William C. Alden James H. Smith	Southeast Wisconsin	1898
2164 [2]	T. C. Chamberlain; William C. Alden James H. Smith	Southeast Wisconsin	1898
2165 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1898
2166	T. C. Chamberlain; William C. Alden James H. Smith	Southeast Wisconsin	1898
2167 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1898
2168 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1898
2169 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1898, 1900
2170 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2171 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2172 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2173 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2174 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2175	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1899
2176 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2177	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2178 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2179 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2180	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2181 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1900
2182 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1901
2183 [3]	William C. Alden	Watertown Falls	1904
2184 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1904
2185 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1901
2186 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1901
2187 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1901
2188	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1901
2189 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1902
2190 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1902
2191 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1902
2192 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1902
2193 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1902
2194 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2195 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2196 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2197 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2198 [2]	T. C. Chamberlain; William C. Alden; J. L. Tilton	Southeast Wisconsin	1903
2199 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2202	T. C. Chamberlain; William C. Alden; George F. Kay	Southeast Wisconsin	1903
2203 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1903
2204 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1904
2205 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1904
2206 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1904-5

2207 [2]	T. C. Chamberlain; William C. Alden; Allen D. Hole	Southeast Wisconsin	1904-5
2208 [2]	T. C. Chamberlain; William C. Alden; C. G. Schaefer	Southeast Wisconsin	1904-5
2209 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1905
2210 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1905
2211	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1905
2212	T. C. Chamberlain; William C. Alden; H. H. Barrows	Southeast Wisconsin	1905
2213	T. C. Chamberlain; William C. Alden; H. H. Barrows	Southeast Wisconsin	1905
2214 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1907
2215 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1907
2216	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1907
2217 [2]	T. C. Chamberlain; William C. Alden F. T. Thwaites	Southeast Wisconsin	1907
2218	T. C. Chamberlain; William C. Alden R. D. Calkins	Southeast Wisconsin	1907
2219 [3]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1897
2220 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1906
2221 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1908
2222 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1909
2223	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1909
2224 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1909
2225	T. C. Chamberlain; William C. Alden E. R. Scheffel	Southeast Wisconsin	1909
2226 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1910
2227	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1910
2228	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	1910
2229	T. C. Chamberlain; William C. Alden S. L. Stoner	Southeast Wisconsin	1908
2230	T. C. Chamberlain; William C. Alden W. D. Jones	Southeast Wisconsin	1909
2231	William C. Alden; G. J. Miller	Southeast Wisconsin	1909
2232 [2]	T. C. Chamberlain; William C. Alden	Northern Illinois	1908
2234	T. C. Chamberlain; William C. Alden	Northern Illinois	1908
2235	Arthur Keith; William C. Alden	Illinois / Ohio / Wisconsin	1911
2236	T. C. Chamberlain; William C. Alden	Brookfield, Massachusetts	1906-7
2238	T. C. Chamberlain; William C. Alden	Worcester, Massachusetts	1906
2242	T. C. Chamberlain; William C. Alden	Blackstone, Massachusetts	1906
2244 [2]	T. C. Chamberlain; William C. Alden	Marlboro, Massachusetts	1906
2246	T. C. Chamberlain; William C. Alden	Marlboro, Massachusetts	1906
2247	T. C. Chamberlain; William C. Alden	Barre, Massachusetts	1907
2251	T. C. Chamberlain; William C. Alden	Belchertown, Massachusetts	1907
2253 [2]	M. L. Fuller; William C. Alden	Gaines and Elkland, Pennsylvania	1900
2254	M. L. Fuller; William C. Alden	Gaines and Elkland, Pennsylvania	1900
2256	T. C. Chamberlain; William C. Alden	Mt. Desert Island, Maine	1907
2257	T. C. Chamberlain; William C. Alden	Mt. Desert Island, Maine	1907
2258 [2]	M. R. Campbell; William C. Alden	Glacier National Park, Montana	1911
2260 [2]	M. R. Campbell; William C. Alden	Glacier National Park, Montana	1911
2261	M. R. Campbell; J. E. Thomas	Glacier National Park, Montana	1911
2262	William C. Alden; Eugene Siebinger	Blackfeet Indian Reservation, Montana / southern Alberta, Canada	1912
2264 [2]	M. R. Campbell; William C. Alden	Glacier National Park, Montana	1913
2265	M. R. Campbell; William C. Alden	Glacier National Park, Montana	1913
2266	M. R. Campbell; Clifton S. Corbett	Glacier National Park, Montana	1913
2266-A [2]	M. R. Campbell; Clifton S. Corbett	Glacier National Park, Montana	1911-14
2266-B	M. R. Campbell; Clifton S. Corbett	Glacier National Park, Montana	1911-14
2266-D	M. R. Campbell; E. M. Parks	Glacier National Park, Montana	1911-14
2267	A. Keith; William C. Alden	Montana / North Dakota	1911
2268	A. Keith; William C. Alden	Maine / Massachusetts	1912
2269	T. C. Chamberlain; William C. Alden	Northeastern Iowa	1908, 1910
2270 [3]	T. C. Chamberlain; William C. Alden; and others	Wisconsin - well records	1898-1911
2271 [5]	T. C. Chamberlain; William C. Alden; and others	Wisconsin - well records	1898-1911
2272 [2]	T. C. Chamberlain; William C. Alden; and others	Wisconsin - well records	1898-1911
2273	T. C. Chamberlain; William C. Alden; and others	Wisconsin - well records	1898-1911
2274 [3]	William C. Alden	Wisconsin - index of notebooks	n.d.
2275	William C. Alden	Iowa / Illinois / Minnesota / North Dakota / Nebraska	n.d.
2276	William C. Alden	Iowa / Illinois / Nebraska	1914
2277 [2]	William C. Alden	Iowa	1914
2278 [2]	William C. Alden	Iowa	1914
2279 [2]	William C. Alden	Iowa / Minnesota	1914
2280 [2]	William C. Alden	Iowa / Illinois / Minnesota	1914
2281	William C. Alden; M. M. Leighton	Iowa	1914
2282 [2]	William C. Alden; M. M. Leighton	Northeastern Iowa	1914
2283 [2]	William C. Alden; M. M. Leighton	Iowa	1914
2284 [2]	William C. Alden; M. M. Leighton	Iowa	1915

2285	William C. Alden; M. M. Leighton	Iowa	1914
2286 [2]	William C. Alden	Iowa	1915
2287 [2]	William C. Alden	Iowa	1915
2288 [2]	William C. Alden	Iowa	1915
2289	William C. Alden	Iowa / Illinois / Minnesota / North Dakota	1915
2290	William C. Alden; M. M. Leighton	Iowa	1915
2291 [2]	William C. Alden; M. M. Leighton	Iowa	1915
2292 [2]	William C. Alden; M. M. Leighton	Iowa	1915
2293 [2]	William C. Alden; M. M. Leighton	Iowa	1915
2328 [3]	William C. Alden	Geneva and Racine, Wisconsin	1906
2329 [2]	T. C. Chamberlain; William C. Alden	Southeast Wisconsin	n.d.
2330 [2]	William C. Alden	Southeast Wisconsin	n.d.
2415 [2]	M. R. Campbell; W. C. Mendenhall	West Virginia	1895
2416	W. C. Mendenhall	Clay, Clendinning and Charleston, West Virginia	1895
2417	M. R. Campbell	Charleston, West Virginia	1898
2418	M. R. Campbell	Oceana and Charleston, West Virginia	1898
2419	M. R. Campbell	Pineville, Welch, Gilbert and Logan, West Virginia	1898
2420	M. R. Campbell	Various areas, West Virginia	1898
2421	M. R. Campbell	Clay and Clendemin, West Virginia	1898
2422	M. R. Campbell	Glenville and Burnsville, West Virginia	1899
2423	M. R. Campbell	Burnsville and Crawford, West Virginia	1899
2424	M. R. Campbell	Burnsville, Sutton and Gassaway, West Virginia	1899
2425	M. R. Campbell	Various areas, West Virginia	1899
2426	M. R. Campbell	Various areas, West Virginia	1899
2427-A	M. R. Campbell	Bluegrass region, Kentucky	1898
2427-B	M. R. Campbell	Illinois / West Virginia	n.d.
2427-C	M. R. Campbell	Danville, Illinois	1899
2427-D	M. R. Campbell; Hammond Hutler	Meadow Branch and Coal Field, West Virginia	1903
2427-E	M. R. Campbell	Southwest Virginia coal field,	1920
2428	Joseph A. Taff; Alfred H. Brooks	Sutton, West Virginia 1895	
2429	Joseph A. Taff; Alfred H. Brooks	Sutton, West Virginia 1895	
2434	Charles Willard Hayes; W. T. Griswold	West Virginia / Ohio	1901
2501	A. J. Collier; M. R. Campbell	Coal fields, Alaska	1906
2524 [2]	J. H. Hance	Glendive Lignite field, Montana	1910
2525	C. W. Washburne	Western Oregon	1902-4
2527	Ralph Arnold; Chester Washburn	Port Angeles, Crescent Lake, and Solduck River,	
		Washington	1904
2527-A	Ralph Arnold; and others	Santa Cruz, California	1904
2541	G. C. Martin	Denver Basin, Colorado	1908
2542	G. C. Martin	Denver Basin, Colorado	1908
2543	G. C. Martin	Denver Basin, Colorado	1908
2562 [2]	Joseph C. Taff	Durango, Salt Creek and Pagosa Springs, Colorado	1906-7
2633 [2]	Waldemar Lindgren; G. H. Eldridge	Bull Mountains, Montana	1883
2634 [2]	Raphael Pumpelly	Bull Mountains coal field, Montana	1881
2635	Raphael Pumpelly; G. H. Eldridge	Livingston coal field, Montana	1882
2637	Raphael Pumpelly; G. H. Eldridge	Livingston coal field, Montana	1882-83
2669 [2]	E. E. Smith	King and Kittitas, Washington	1909
2670 [2]	E. E. Smith	King and Kittitas, Washington	1909
2671	E. E. Smith	King and Kittitas, Washington	1909
2672 [2]	E. E. Smith	King and Kittitas, Washington	1909
2673 [2]	E. E. Smith	King and Kittitas, Washington	1909
2674 [2]	E. E. Smith	King and Kittitas, Washington	1909
2675	E. E. Smith	King and Kittitas, Washington	1909
2676 [2]	J. A. Davis	Little Powder River coal field, Wyoming	1910
2727	C. A. Fisher	Big Horn Basin, Wyoming	1904
2747	A. J. Collier	Miles City, Montana	1907
2748	A. J. Collier	Miles City, Montana	1907
2749 [2]	A. J. Collier	Miles City, Montana	1907
2751	A. J. Collier	Miles City, Montana	1907
2752	A. J. Collier	Miles City, Montana	1907
2765	Carl D. Smith	Fort Peck Indian Reservation, Montana	1908
2766	Carl D. Smith	Fort Peck Indian Reservation, Montana	1908
2767 [2]	Carl D. Smith	Fort Peck Indian Reservation, Montana	1908
2768	Carl D. Smith; E. B. Hopkins	Fort Peck Indian Reservation, Montana	1908
2769	Carl D. Smith; E. B. Hopkins	Fort Peck Indian Reservation, Montana	1908
2770	Carl D. Smith; E. L. DeGolyer	Fort Peck Indian Reservation, Montana	1908
2771	Carl D. Smith; E. L. DeGolyer	Fort Peck Indian Reservation, Montana	1908
2772	Carl D. Smith; E. L. DeGolyer	Fort Peck Indian Reservation, Montana	1908
2773	Carl D. Smith; E. L. DeGolyer	Fort Peck Indian Reservation, Montana	1908
2774	C. D. Smith	Fort Peck Indian Reservation, Montana	1908
2775	Carl D. Smith	Fort Peck Indian Reservation, Montana	1908
2776	Carl D. Smith	Fort Peck Indian Reservation, Montana	1908
2783 [2]	Waldemar Lindgren	Chiricahua, Arizona	1897
2784 [2]	Waldemar Lindgren; F. C. Schrader	Chiricahua, Arizona	1897
2792 [2]	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2793	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2794 [2]	A. C. Veatch; M. W. Ball	Carbon County, Wyoming	1906

2795	A. C. Veatch; Jones	Carbon County, Wyoming	1906
2796 [2]	A. C. Veatch	Carbon County, Wyoming	1906
2797	A. C. Veatch	Carbon County, Wyoming	1906
2798 [2]	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2799	A. C. Veatch; Spenser R. Logan	Carbon County, Wyoming	1906
2800 [2]	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2801 [2]	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2802	A. C. Veatch; M. W. Ball	Carbon County, Wyoming	1906
2803	A. C. Veatch; Max A. Pishel	Carbon County, Wyoming	1906
2809	A. C. Veatch	Carbon County, Wyoming	1906
2814	M. A. Pishel; C. F. Bowen	Baker field, Montana	1910
2815 [2]	C. F. Bowen	Baker field, Montana	1910
2816	C. F. Bowen	Baker field, Montana	1910
2817	C. F. Bowen; G. M. Parks	Baker field, Montana	1910
2818 [2]	C. F. Bowen	Baker field, Montana	1910
2838 [2]	V. H. Barnett; A. W. Stickney	Belle Fourche Valley, Wyoming	1911
2839	V. H. Barnett; R. Z. Pierce	Belle Fourche Valley, Wyoming	1911
2840	V. H. Barnett; Frank Elliott	Belle Fourche Valley, Wyoming	1911
2841 [2]	V. H. Barnett	Belle Fourche Valley, Wyoming	1911
2892	Frank A. Herald	Williston lignite field, Fort Berthold, North Dakota	1911
2897 [7]	Frank A. Herald	Williston lignite field, North Dakota	1911
2915 [4]	Ralph W. Stone; E. H. Finch	Fort Benton, Nyack and Flathead Indian Reservation, Montana - phosphate notes	1912-13
2920 [2]	E. Russell Lloyd	Cannonball lignite field, North Dakota	1913
2920-A [2]	E. Russell Lloyd	Cannonball lignite field, North Dakota	1914
2925 [2]	Max A. Pishel	Mancos Project, Colorado	1911
2925-A	Max A. Pishel	Red Mesa, Colorado	1911
2925-B	Max A. Pishel	Red Mesa, Colorado / New Mexico	1911
2925-C [3]	Max A. Pishel	Red Mesa, Colorado / New Mexico	1911
2925-D	Max A. Pishel	Yakima Indian Reservation, Washington	1912
2925-E	Max A. Pishel	Red Mesa and Soda Canyon, Colorado	1911
2926	Charles F. Bowen; H. Bassler	Musselshell to Judith, Montana	1912
2927 [2]	Charles F. Bowen	Big Sandy and Cleveland fields, Montana	1912
2937	C. F. Leshner	Glendive, Montana	n.d.
2951 [2]	A. C. Veatch	Coal and oil lands, Wyoming	1905
2952	A. C. Veatch	Coal and oil lands, Wyoming	1905
2953 [2]	A. C. Veatch; A. R. Schultz	Lincoln and Uinta, Wyoming	1905
2954	A. C. Veatch; A. R. Schultz	Uinta, Wyoming	1905
2955	A. C. Veatch; A. R. Schultz	Uinta, Wyoming	1905
2956	A. C. Veatch; Carl D. Smith	Uinta, Wyoming	1905
2957	A. C. Veatch; Carl D. Smith	Uinta and Lincoln, Wyoming	1905
2958 [2]	A. C. Veatch; Max A. Pishel	Uinta and Lincoln, Wyoming	1905
2959 [2]	A. C. Veatch; Max A. Pishel	Uinta and Lincoln, Wyoming	1905
2960	A. C. Veatch; Max A. Pishel	Uinta and Lincoln, Wyoming	1905
2961	A. C. Veatch	Oil well logs, Wyoming	1905-6
2962	A. C. Veatch	Uinta, Wyoming	1905
2963	A. C. Veatch	Uinta, Wyoming	1905
2964	A. C. Veatch	Uinta, Wyoming	1905
2965	A. C. Veatch	Uinta and Big Horn River Basin, Wyoming	1905
2966	A. C. Veatch	Uinta and Big Wind River Basin, Wyoming	1905
2967	C. Max Bauer	Fort Peck Project, Montana	1911
2968	C. Max Bauer	Fort Peck Project, Montana	1911
2969	C. Max Bauer	Fort Peck Project, Montana	1911
2970	C. Max Bauer	Fort Peck Project, Montana	1911
2971	C. Max Bauer	Fort Peck Project, Montana	1911
2972	C. Max Bauer	Fort Peck Project, Montana	1911
2983	N. H. Darton	Newell, South Dakota	1912-15
2983-A [2]	N. H. Darton	Geologic and topographic map, South Dakota	1915
2985	N. H. Darton	Syracuse and Lakin, Kansas	1913
2986	N. H. Darton	South Dakota	1909-15
2987	N. H. Darton	Spearfish, Sturgis, Deadwood and Black Hills, South Dakota	1912
2987-B	N. H. Darton	Kansas Colorado / New Mexico / Arizona, along route of the Santa Fe Railroad	1914
2987-C	N. H. Darton	Arizona / California, along route of the Atchinson, Topeka and Santa Fe Railroad	1914
2987-D	Moore; Evans; LaRue	Grand Canyon, Arizona	1927
2987-E [2]	N. H. Darton	Arizona	1919-21
2987-F [2]	N. H. Darton	Arizona	1921-23
2987-H	N. H. Darton	Arizona	1915-23
2987-I	N. H. Darton	List of fossils collected by Edward Sampson on the Fort Apache and San Carlos Indian Reservations, Arizona	1920-22
2987-K	N. H. Darton	Flagstaff and Grand Canyon, Arizona	1914
2987-L	N. H. Darton	Valencia County west of the Rio Grande, New Mexico	1913-16
2987-M	N. H. Darton	Eastern New Mexico	1910-25
2987-N	N. H. Darton	New Mexico	1913-21

2987-O	N. H. Darton	Wingate, New Mexico	1918-19
2987-P	N. H. Darton	New Mexico	ca. 1913
2987-Q	N. H. Darton	San Andres, Guadalupe, and Sacramento Mountains, New Mexico	1913-15
2987-R	N. H. Darton	Gallina, Jemez and Abiquitu, New Mexico	1913-17
2987-S	N. H. Darton	Carthage, Oscura Peak, Quivera and San Pedro, New Mexico	1912-24
2987-U	N. H. Darton	LaJoya, New Mexico	1913-16
2987-V	N. H. Darton	New Mexico	1924
2987-W [2]	N. H. Darton; J. B. Reeside	Guadalupe Mountains and Carlsbad region, New Mexico / Texas	1925
2987-Z	N. H. Darton	New Mexico	1912
2988	N. H. Darton	Pennsylvania	1911
2988-A	N. H. Darton	Texas	1925-26
2988-B	N. H. Darton	Texas Geologic Map	1926-27
2988-C	N. H. Darton	Menard-Segovia and Crane-Rankin, Texas	1928-29
2988-D	N. H. Darton	Kent and Barstow, Texas	1928
2988-E [2]	N. H. Darton	Western Texas	1929
2988-F	N. H. Darton	Texas	1930
2988-G	N. H. Darton	Texas Geologic Map	1930-31
2988-H	N. H. Darton	Texas	ca. 1927
2989 [2]	N. H. Darton	Along route of the Southern Pacific Railroad, New Orleans to Los Angeles, Louisiana / Texas / New Mexico / Arizona / California	1932
3025 [2]	E. Russell Lloyd	Cannonball lignite field, North Dakota	1913
3026 [2]	E. Russell Lloyd	Cannonball lignite field, North Dakota	1913
3027	E. Russell Lloyd	Cannonball lignite field, North Dakota	1913
3055	L. J. Pepperberg	Milk River coal field, Montana	1908
3056	L. J. Pepperberg	Milk River coal field, Montana	1908
3057	L. J. Pepperberg	Milk River coal field, Montana	1908
3061 [2]	L. J. Pepperberg	Milk River coal field, Montana	1908
3070-I	Eugene Stehinger; Julian D. Sears	Possibilities of oil and gas in north central Montana	1915
3070-L	Julian D. Sears; Wilmot H. Bradley	Moffat County, Colorado	1921
3070-M	Julian D. Sears; K. K. Landes	Moffet County, Colorado	1921
3070-N	Julian D. Sears; Wilmot H. Bradley	Moffet County, Colorado	1921
3070-O	Julian D. Sears; K. K. Landes	Moffet County, Colorado	1921
3070-P [2]	Julian D. Sears	Moffet County, Colorado	1921
3070-Q	Julian D. Sears; Wilmot H. Bradley	Moffet County, Colorado	1922
3070-R	Julian D. Sears; Wilmot H. Bradley	Moffet County, Colorado / Utah	1922
3070-S	Julian D. Sears; Wilmot H. Bradley	Moffet County, Colorado	1922
3070-T [3]	Julian D. Sears; Wilmot H. Bradley	Moffet County, Colorado	1922
3070-U	Julian D. Sears; James Gilluly	Moffet County, Colorado	1922
3070-V	Julian D. Sears	Moffet County, Colorado	1921-22
3070-W	Julian D. Sears; James Gilluly	Moffet County, Colorado	1922
3037-X [7]	Julian D. Sears; P. C. Benedict	Baxter Basin gas field, Wyoming	1923
3037-Y [2]	Julian D. Sears; P. C. Benedict	Baxter Basin gas field, Wyoming	1923
3070-Z	Julian D. Sears; and others	Vermilion Creek, stratigraphic sections and coal cases, Colorado/ Wyoming	1923
3070-ZZ	Julian D. Sears	Wyoming map	n.d.
3112 [2]	C. M. Bauer	Ekalaka coal field, Montana	1913
3143-W [22]	C. Whitman Cross	Specimen lists, Colorado / New Mexico	various
3143-X [2]	C. Whitman Cross	Silver Cliff and Rosita Hills area, Colorado	n.d.
3164 [2]	Adolph Knopf	Helena mining region, Montana	1911
3165 [2]	Adolph Knopf; H. G. Ferguson	Helena mining region, Montana	1911
3255 [2]	Adolph Knopf	Yerington, Nevada	1914
3256 [2]	Adolph Knopf	Darwin, California	1913
3257 [2]	Adolph Knopf	Inyo Range, California	1912
3258	Adolph Knopf; F. H. Lahee	Bishop and Darwin, California	1913
3265	Arthur Keith; Charles Willard Hayes	Monadock, New Hampshire	1887
3266 [2]	Arthur Keith; Charles Willard Hayes	Monadock, New Hampshire	1887
3267 [2]	Arthur Keith; Charles Willard Hayes	Monadock, New Hampshire	1887
3268 [2]	Arthur Keith; Charles Willard Hayes	Monadock, New Hampshire	1887
3269 [2]	Arthur Keith; Charles Willard Hayes	Monadock, New Hampshire	1887
3275 [2]	Arthur Keith; Charles Willard Hayes;		
	W. J. Withrow	Rutland and Wallingford, Vermont	1888
3276 [2]	Arthur Keith; Charles Willard Hayes; and others	Rutland and Wallingford, Vermont	1888-89
3277	Arthur Keith; Charles Willard Hayes;		
	W. J. Withrow	Rutland and Wallingford, Vermont	1888
3278	Arthur Keith; Charles Willard Hayes;		
	W. J. Withrow	Rutland and Wallingford, Vermont	1888
3279 [2]	Arthur Keith; Charles Willard Hayes;		
	W. J. Withrow	Rutland and Wallingford, Vermont	1888
3280 [2]	Arthur Keith; Charles Willard Hayes; and others	Rutland and Wallingford, Vermont	1888
3281 [2]	Arthur Keith; Charles Willard Hayes;		
	H. A. Craigin	Rutland and Wallingford, Vermont	1888

3282	Arthur Keith; Charles Willard Hayes; H. L. Smyth	Rutland and Wallingford, Vermont	1889
3283 [3]	Arthur Keith; Charles Willard Hayes; and others	Rutland and Wallingford, Vermont	1888
3283-A	Charles Willard Hayes	Valuation coal lands on the public domain	ca. 1907-10
3284 [2]	Charles Willard Hayes	Cuba	ca. 1891-1901
3284-A	Arthur Spencer	Cuba	1901
3284-B	Arthur Spencer	Cuba	1901
3397-A	G. F. Moulton; Nathan W. Bass	Cedar Creek, Montana	1920
3397-B	G. F. Moulton; Nathan W. Bass	Cedar Creek, Montana	1921
3397-C	G. F. Moulton; Nathan W. Bass	Cedar Creek, Montana	1921
3397-D [2]	G. F. Moulton; Nathan W. Bass; M. M. Bramlette	Cedar Creek, Montana	1921
3464	T. Nelson Dale	Massachusetts / New York	1919
3465	T. Nelson Dale	New York / Connecticut	1920
3478	L. M. Prindle	Clove, Troy and Kinderhook, New York	1892-93
3595-B	M. R. Campbell; H. R. Bennett	Glacier National Park, Montana	1911-14
3595-C [2]	M. R. Campbell; Eugene Stebinger	Glacier National Park, Montana	1911-14
3595-D	M. R. Campbell; C. R. Williams	Glacier National Park, Montana	1911-14
3680-A	Arthur A. Baker	Montana	1924
3755 [2]	Julian D. Sears; Blecker; Russell	Gallup coal field, New Mexico	1919-20
3755-A [3]	Julian D. Sears	Gallup coal fields, New Mexico	1919-20
3755-B [2]	Julian D. Sears; Langdon White	Gallup coal fields, New Mexico	1920
3755-C	Julian D. Sears; C. P. Ross; Wilnot H. Bradley	Gallup and Zuni Basin, New Mexico	1921
3756 [2]	Julian D. Sears; B. H. M. White	Gallup coal fields, New Mexico	1919
3763	E. T. Hancock; Julian D. Sears	Lake Basin field, Montana	1916
3770 [3]	E. T. Hancock; Julian D. Sears; Delbert Williams	Lake Basin field, Montana; New Salem Lignite field, North Dakota	1914-16
3831-A	Frederick L. Ransome	Bisbee, Arizona	1918
3831-B [2]	Frederick L. Ransome; H. A. C. Jenison	Boulder Canyon, Arizona / Nevada	1922
4016 [2]	Paul V. Roundy; William W. Rubey; and others	Pawhuska, Oklahoma	1917-21
4018 [2]	Paul V. Roundy; William W. Rubey; and others	Pawhuska, Oklahoma	1917-21
4057	W. T. Thom, Jr.; Nathan W. Bass	Crow Indian Reservation, Montana	1921
4057-A [2]	N. W. Bass and others	Tongue River coal field, Montana	1923
4057-B	N. W. Bass and others	Tongue River coal field, Montana	1923
4057-C [2]	N. W. Bass; R. F. Flint; J. B. Stone	Tongue river coal field, Montana	1923
4057-D	N. W. Bass; Paul D. Torrey	Tongue River coal field, Montana	1923
4057-E	N. W. Bass; Paul D. Torrey	Tongue River coal field, Montana	1923
4057-F [5]	N. W. Bass and others	Tongue River coal field, Montana	1923
4058	K. C. Heald; William W. Rubey;	El Dorado oil fields, Arkansas	1921
4061	L. G. Mosburg; William H. Rubey	Oil field reserves and estimates, Missouri / Illinois / Kansas	1921
4062	William H. Rubey	Oil field reserves and estimates, Missouri / Illinois / Kansas	1921
4089	M. R. Campbell	Glacier National Park, Montana	1911
4090 [2]	M. R. Campbell; J. R. Hoots	Glacier National Park, Montana	1911
4091	M. R. Campbell; J. R. Hoots	Glacier National Park, Montana	1911
4092-A	M. R. Campbell	Glacier National Park, Montana	1913
4092-B [2]	M. R. Campbell	St. Paul to Seattle, Various States	1914
4092-C [3]	M. R. Campbell	Along the route of the Denver and Rio Grande Railroad, Colorado / Utah	1915-16
4171	M. R. Campbell; H. B. C. Nitze	Roam Mountain, Tennessee	1899
4275-A	A. E. Fath; N. W. Bass	Carbon and Sweetwater Counties, Wyoming	1920
4338	Frederick L. Ransome; H. A. C. Jenison	Black Canyon, Arizona	1923
4339	Frederick L. Ransome; H. A. C. Jenison	Black Canyon, Nevada / Arizona	1923
4340	Frederick L. Ransome; H. A. C. Jenison	Virgin Valley, Nevada	1923
4341 [2]	Arthur A. Baker; C. M. Clark	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4342	Arthur A. Baker; C. M. Clark	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4343	Arthur A. Baker; P. D. Torrey	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4344	Arthur A. Baker; P. D. Torrey	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4345	Arthur A. Baker	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4346	Arthur A. Baker	Tongue River coal field and northward extension of Sheridan coal field, Montana	1924
4347	Arthur A. Baker	Northward extension of Sheridan coal field, Montana	1924
4348	Arthur A. Baker; J. B. Stone	Northward extension of Sheridan coal field, Montana	1924
4349	Arthur A. Baker; P. D. Torrey	Northward extension of Sheridan coal field, Montana	1924
4350 [4]	Arthur A. Baker; C. E. Erdmann	Northward extension of Sheridan coal field, Montana	1925
4351 [4]	Arthur A. Baker; C. E. Erdmann	Northward extension of Sheridan coal field, Montana	1925
4352 [2]	Arthur A. Baker; C. E. Erdmann	Northward extension of Sheridan coal field, Montana	1925
4353 [4]	Arthur A. Baker; C. E. Erdmann	Northward extension of Sheridan coal field, Montana	1925

4354	Arthur A. Baker	Steel Creek anticline, Wyoming	1925
4362	Arthur C. Spencer; J. E. Wolff	Franklin Furnace, New Jersey	1904
4363	Arthur C. Spencer	Iron mines, New Jersey	1904
4364 [2]	Arthur C. Spencer	Iron ore - Triassic, Pennsylvania	1904
4365	Arthur C. Spencer	Montezuma, Colorado / Utah	1898
4366	Arthur C. Spencer	Encampment, Wyoming	1902
4367 [2]	Arthur C. Spencer	Encampment to Pearl, Wyoming / Colorado	1902
4368	J. Volney Lewis	Encampment, Wyoming	1902
4369 [3]	Arthur C. Spencer	Ely District, Nevada	1909-10
4370	Arthur C. Spencer	Veteran mine, Ely District, Nevada	1911
4371	Arthur C. Spencer; Weeks	Appalachian Forest, White Mountains, New Hampshire	1911
4372 [2]	Arthur C. Spencer; Weeks	Twin Mountain to Cherry Mountain, New Hampshire	1911
4373	Arthur C. Spencer	Laramie District, Wyoming	1914
4374	Arthur C. Spencer	Atlantic District, Wyoming	1914
4375	Arthur C. Spencer	Atlantic District, Wyoming	1914
4376	Arthur C. Spencer	Thief Valley Dam Site, Oregon	1922
4377	Arthur C. Spencer	Salmon River Dam Site Surveys, Idaho	1922
4378	Arthur C. Spencer	Salmon River Dam Site Surveys, Idaho	1922
4379-A	Arthur C. Spencer	Salmon River Dam Site Surveys, Idaho	1922
4380 [2]	Arthur C. Spencer	Santa Rita, New Mexico	1914, 1928
4381 [2]	Arthur C. Spencer	Santa Rita, New Mexico	1921
4382	Arthur C. Spencer	Santa Rita, New Mexico	1928, 1931
4383	Arthur C. Spencer	Mine plats, Santa Rita, New Mexico	1928
4384	Arthur C. Spencer	Taylor Creek tne deposits, New Mexico	1928
4976	James Gilluly	San Rafael Swell, Utah	1924
4976-A [2]	James Gilluly	San Rafael Swell, Utah	1924
4976-B [4]	James Gilluly	San Rafael Swell, Utah	1924
4976-C [6]	James Gilluly	San Rafael Swell, Utah	1924
5035	W. S. Burbank	Haiti	1920-21
5036 [2]	W. S. Burbank	Haiti	1920-21
5037 [2]	W. S. Burbank	Haiti	1920-21
5113 [3]	K. F. Mather; Julian D. Sears; James Gilluly; R. G. Lusk	Northeast Colorado Project	1924
5114 [2]	K. F. Mather; Julian D. Sears; James Gilluly; R. G. Lusk	Northeast Colorado Project	1924
5114-A [2]	James Gilluly	Stockton and Fairfield, Utah	1927
5114-B [3]	James Gilluly; Sidney Paige; and others	Stockton and Fairfield, Utah	1926
5114-C	Sidney Paige	Stockton and Fairfield, Utah	1925
5114-D	Sidney Paige	Stockton and Fairfield, Utah	1925
5114-E	Sidney Paige	Stockton and Fairfield, Utah	1925
5238-1 [2]	James Gilluly; J. E. Reed; C. F. Park, Jr.	Eastern Oregon mining districts and Baker	1930
5238-2 [4]	James Gilluly; J. E. Reed; C. F. Park, Jr.	Eastern Oregon mining districts and Baker	1930
5238-A [3]	James Gilluly; J. E. Reed; C. F. Park, Jr.	Eastern Oregon mining districts and Baker	1930
5239	James Gilluly; R. B. Stewart Keating,	Oregon	1929
5242 [5]	C. Whitman Cross; Allen D. Hole	Telluride, Colorado	1907
5244	H. Hinds; David White	Clintwood and Bucu, Virginia	n.d.
5245	David White	Oklahoma / Arkansas	1916
5246	David White	Alabama / Tennessee	1901
5247 [2]	David White	Virginia / West Virginia	1901
5248	David White	Kingston to Sewanee, West Virginia / Ohio / Tennessee	1895
5249	J. A. Taff; David White	Buckhannon and Sutton, West Virginia	1895
5250	David White	Alabama / Tennessee	1901
5251	David White	Pennsylvania	1890
5252	David White	Greenland	1897
5253	David White	Tazewell, Virginia / West Virginia	1894
5254	David White	Raleigh and Piedmont, West Virginia	1894
5254-A	C. D. White	Kansas / Oklahoma / Colorado	n.d.
5254-B	C. D. White	Tennessee / Kentucky	1910-11
5254-C	C. D. White	West Virginia	1923
5254-D	C. D. White	Maryland / West Virginia	1925
5257-F [3]	C. H. Dane; Julian D. Sears; C. E. Erdman; and others	Salt Valley and Grand County, Utah	1927-29
5257-G [2]	C. H. Dane; Julian D. Sears; C. E. Erdman; and others	Salt Valley and Grand County, Utah	1927-29
5276 [2]	Sidney Paige; A. C. Spencer	Llano, Texas	1903
5277	Sidney Paige; A. C. Spencer	Llano, Texas	1903
5277-A	Sidney Paige	Llano, Texas	1903
5288	Sidney Paige	Black Hills, South Dakota	1912
5289	Sidney Paige	Black Hills, South Dakota	1912
5290	Sidney Paige	Black Hills, South Dakota	1912
5291	Harrington; Sidney Paige	Black Hills, South Dakota	1913
5292	D. G. Thompson; Sidney Paige	Black Hills, South Dakota	1913
5293	Sidney Paige	Black Hills, South Dakota	1913
5294	Sidney Paige	Black Hills, South Dakota	1913

5295	Sidney Paige	Black Hills, South Dakota	c. 1913
5296	Sidney Paige	Black Hills, South Dakota	c. 1913
5312	J. Basil Preston	Fireclays, Tennessee	1934
5313 [2]	M. N. Bramlette; J. Basil Preston	Fireclays, Tennessee	1934
5314 [2]	M. N. Bramlette; H. S. Rankin	Talladega, Alabama	1934
5315	M. N. Bramlette; A. C. Munyan	Clay investigations, Calloway County, Kentucky	1934-35
5326	George B. Richardson	Sanpete and Sevier valleys, Utah	1905
5328	George B. Richardson; C. S. Jarvis	Sanpete and Sevier valleys, Utah	1905
5359 [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-A [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-B [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-C [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-D [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-E	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-F	Edwin B. Eckel	Eastern Texas, brown iron areas	1934
5359-G [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-H [2]	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-I	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-J	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-K	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5359-L	Edwin B. Eckel	Eastern Texas, brown iron areas	1931-35
5360-A [3]	Marcus I. Goldman; Arthur C. Spencer	La Plata problem, Colorado and adjacent States	1929
5424 [3]	William C. Alden; B. K. Emerson	Belchertown and Barre, Massachusetts	n.d.
5428 [2]	William C. Alden; B. K. Emerson	Webster and Blackstone, Massachusetts	n.d.
5430 [2]	T. C. Chamberlain; William C. Alden; B. K. Emerson	Massachusetts	n.d.
5447 [2]	N. H. Darton	Maryland / Virginia/ Washington, D.C.	1934-38
5448	N. H. Darton	Maryland / Virginia	ca. 1938-40
5449 [2]	N. H. Darton	Washington, D.C. and vicinity	various
5462 [3]	Edwin T. McKnight; Julian D. Sears; O. Murphy; J. B. Reeside, Jr.	Grand and San Juan Counties, Utah	1926
5462-A [3]	Edwin T. McKnight; Julian D. Sears; O. Murphy; J. B. Reeside, Jr.	Grand and San Juan Counties, Utah	1926
5462-B	Edwin T. McKnight; Julian D. Sears; O. Murphy; J. B. Reeside, Jr.	Grand and San Juan Counties, Utah	1926-27
5542	C. Whitman Cross	Mineralogical notes, Colorado	1882
5543 [2]	C. Whitman Cross	Gunnison, Colo.	1885
5544	C. Whitman Cross	Leucite Hills, Wyoming	1883
5560 [2]	Arthur A. Baker	Monument Valley and Navajo Mountain Region, Utah	1928
5560-A [5]	Arthur A. Baker	Monument Valley and Navajo Mountain Region, Utah	1928
5560-B	L. A. Kelley	Monument Valley and Navajo Mountain Region, Utah	1928
5560-C [4]	L. A. Kelley	Monument Valley and Navajo Mountain Region, Utah	1928
5560-D	L. W. Clark	Monument Valley and Navajo Mountain Region, Utah	1928
5560-E [5]	L. W. Clark	Monument Valley and Navajo Mountain Region, Utah	1928
5560-F	L. B. Reeside	Monument Valley and Navajo Mountain Region, Utah	1928
5560-G [2]	L. G. Snow	Monument Valley and Navajo Mountain Region, Utah	1928
5560-H	R. M. Larsen	Monument Valley and Navajo Mountain Region, Utah	1928
5561 [2]	Arthur A. Baker	Southeastern Utah	1926
5561-A [2]	Arthur A. Baker; Charles Brewer	Moab, Utah	1926
5561-B [6]	Arthur A. Baker	Moab, Utah	1926
5561-C [2]	Arthur A. Baker; Charles Brewer	Moab, Utah	1926
5561-D [3]	Arthur A. Baker; G. H. Hansen	Moab, Utah	1926
5561-E [2]	Arthur A. Baker	Moab, Utah	1927
5561-F [4]	Arthur A. Baker	Moab, Utah	1927
5561-G [2]	Arthur A. Baker; C. V. Theis	Moab, Utah	1927
5561-H	Arthur A. Baker; M. I. Goldman	Moab, Utah	1927
5561-I	Arthur A. Baker; L. W. Clark	Moab, Utah	1927
5561-J [5]	Arthur A. Baker; L. W. Clark	Moab, Utah	1927
5561-K	Arthur A. Baker; C. V. Theis	Moab, Utah	1927
5561-L [3]	Arthur A. Baker	Moab, Utah	1927
5562 [2]	Arthur A. Baker	Catacart Canyon region, Utah	1930
5562-A [3]	Arthur A. Baker	Catacart Canyon and Green River Desert, Utah	1930
5562-B [2]	Arthur A. Baker; M. M. Knechtel	Catacart Canyon and Green River Desert, Utah	1930
5562-C	Arthur A. Baker; A. J. Eardley	Catacart Canyon and Green River Desert, Utah	1930
5562-D [2]	Arthur A. Baker; A. J. Eardley	Catacart Canyon and Green River Desert, Utah	1930
5562-E	Arthur A. Baker; H. D. Curry	Catacart Canyon and Green River Desert, Utah	1930
5562-F	Arthur A. Baker; H. D. Curry	Catacart Canyon and Green River Desert, Utah	1930
5562-G	Arthur A. Baker; L. G. Henbest	Catacart Canyon and Green River Desert, Utah	1930
5562-H [2]	Arthur A. Baker; L. G. Henbest	Catacart Canyon and Green River Desert, Utah	1930
5562-I [5]	Arthur A. Baker	Catacart Canyon and Green River Desert, Utah	1931
5562-J [3]	Arthur A. Baker	Catacart Canyon and Green River Desert, Utah	1931
5562-K [5]	Arthur A. Baker; R. L. Miller	Catacart Canyon and Green River Desert, Utah	1931
5562-L [2]	Arthur A. Baker; D. A. Andrews	Catacart Canyon and Green River Desert, Utah	1931
5562-M [4]	Arthur A. Baker	Catacart Canyon and Green River Desert, Utah	1931
6025	K. C. Heald; William W. Rubey	Ingomar Dome, Montana	1922
6026 [2]	K. C. Heald; William W. Rubey	Ingomar Dome, Montana	1922
6027	K. C. Heald; William W. Rubey	Ingomar Dome, Montana	1922

6040 [2]	C. Whitman Cross	Correspondence and reports, Colorado	1882-90
6122	C. David White	Southern anthracite coal field, Pennsylvania	1899
6123	C. David White	West Virginia / Virginia / Kentucky	1904
6124	C. David White	Kentucky / West Virginia / Ohio	1905-6
6125	C. David White	Tennessee/ Kentucky / West Virginia	1895-96
6126	C. David White	Wyoming and Sullivan, Pennsylvania	n.d.
No. 25	Samuel G. Lasky; James Gilluly; R. F. Pettit	Little Hatchet Mountains, New Mexico	1934-42
No. 26	Samuel G. Lasky; James Gilluly; R. F. Pettit; John B. Reeside, Jr.;	Little Hatchet Mountains, New Mexico	1934-42
No. 27 [2]	Edgar O. Bowles	Little Hatchet Mountains, New Mexico	1934-42
No. 31 [3]	S. G. Lasky; James Gilluly; R. F. Pettit; J. B. Reeside, Jr.;	Letters and Papers	1875-92
No. 32 [4]	George F. Becker	Letters and Papers	1875-92
No. 33	George F. Becker; James D. Hague	Various mining districts, Colorado	1932
No. 34	Edwin B. Eckel	Various mining districts, Colorado	1932
No. 127	Julian D. Sears; Mendall McClellan Bell	Comb Ridge Project, Utah	1953
No. 128	Julian D. Sears; Mendall McClellan Bell	Comb Ridge Project, Utah	1953
No. 129	Julian D. Sears; M. H. Bergendahl	Comb Ridge Project, Utah	1953
No. 130	Julian D. Sears; M. H. Bergendahl	Comb Ridge Project, Utah	1953
No. 131	Julian D. Sears; M. A. Conti	Comb Ridge Project, Utah	1953
No. 132	Julian D. Sears; G. W. Fuller	Comb Ridge Project, Utah	1953
No. 133	Julian D. Sears; G. W. Fuller	Comb Ridge Project, Utah	1953
No. 134	Julian D. Sears; Chabot Kilburn	Comb Ridge Project, Utah	1953
No. 135	Julian D. Sears; Chabot Kilburn	Comb Ridge Project, Utah	1953
No. 136	Julian D. Sears; Sergius Harry Mamay	Comb Ridge Project, Utah	1953
No. 137	Julian D. Sears; Sergius Harry Mamay	Comb Ridge Project, Utah	1953
No. 138	Julian D. Sears; Warren L. Peterson	Comb Ridge Project, Utah	1953
No. 139	Julian D. Sears; Warren L. Peterson	Comb Ridge Project, Utah	1953
No. 140	Julian D. Sears; E. L. Yochelson	Comb Ridge Project, Utah	1953
No. 141	Julian D. Sears; E. L. Yochelson	Comb Ridge Project, Utah	1953
No. 142 [2]	James Gilluly; Edgar Bowles; R. S. Cannon, Jr.	Arizona	1936
No. 143 [2]	James Gilluly; Edgar Bowles; John Herbert Weiss	Central Cochise County, Arizona	1936-40
No. 144 [2]	James Gilluly	Central Cochise County, Arizona	1936-40
No. 145	James Gilluly; Edgar Bowles; R. S. Cannon, Jr.	Central Cochise County, Arizona	1936-40
No. 146	James Gilluly; Josiah Bridge	Central Cochise County, Arizona	1936-40
No. 147 [2]	James Gilluly	Central Cochise County, Arizona	1936-40
No. 148	James Gilluly; Edgar Bowles; R. S. Cannon, Jr.	Central Cochise County, Arizona	1939
No. 149	James Gilluly; Edgar Bowles; R. S. Cannon, Jr.	Central Cochise County, Arizona	1939-40
No. 150	Wilbur S. Burbank; Edwin N. Goddard	Twin Lakes diversion tunnel, Colorado	1935
No. 195	James Gilluly	Arizona / California / Idaho / Montana / Nevada / Oregon / Utah	1943
No. 201 [2]	Edwin B. Eckel	Mercury industry, Italy	1945
No. 206	A. C. Spencer	Deschutes, Oregon	1934
No. 245	Nathan W. Bass	Ashland coal field, Montana	1923-24, 1927-28
No. 246	Nathan W. Bass	Ashland coal field, Montana	1923-24, 1927-28
No. 247 [3]	Nathan W. Bass	Ashland coal field, Montana	1923-24, 1927-28
No. 248	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 249 [5]	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 250 [2]	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 251	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 252 [4]	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 253 [3]	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 254	Nathan W. Bass; George E. Manger	Ashland coal field, Montana	1923-24, 1927-28
No. 255 [4]	Nathan W. Bass and others	Ashland coal field, Montana	1923-24, 1927-28
No. 256	Nathan W. Bass; N. F. Stull	Ashland coal field, Montana	1923-24, 1927-28
No. 257	Nathan W. Bass; H. C. Tan	Ashland coal field, Montana	1923-24, 1927-28
No. 292	Nathan W. Bass; Arthur A. Baker	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 293 [2]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 294	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 295	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 296 [2]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 297 [2]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 298	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 299	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 300	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 301	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 302	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 303	Nathan W. Bass; Frank D. Spencer	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 304 [2]	Nathan W. Bass; Arthur A. Baker	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54

No. 305 [4]	Nathan W. Bass; M. R. Campbell Franklin T. McCann; Lloyd Pierce	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 306	Nathan W. Bass; M. R. Campbell	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 307 [5]	Nathan W. Bass; M. R. Campbell	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 308 [2]	Nathan W. Bass; M. R. Campbell	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 309	Nathan W. Bass; M. R. Campbell; Dean E. Winchester	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 310	Nathan W. Bass; M. R. Campbell	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 311	Nathan W. Bass; M. R. Campbell	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 312 [4]	Nathan W. Bass; James B. Eby	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 313	Nathan W. Bass; James B. Eby; and others	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 314	Nathan W. Bass; J. B. Eby; Nels C. Beck	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 315	Nathan W. Bass and others	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 316 [2]	Nathan W. Bass and others	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 317 [2]	Nathan W. Bass; James B. Eby; N. C. Beck	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 318 [3]	Nathan W. Bass; James B. Eby; N. C. Beck	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 319	Nathan W. Bass; Kenneth K. Landers	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 320	Nathan W. Bass; Walter H. Newhouse; James B. Eby	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 321 [2]	Nathan W. Bass; F. D. Spencer	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 322 [2]	Nathan W. Bass; F. D. Spencer	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 367 [3]	William W. Rubey	Pershing oil and gas fields, Oklahoma	1918-21
No. 368	William W. Rubey	Pershing oil and gas fields, Oklahoma	1918-21
No. 369	William W. Rubey	Pershing oil and gas fields, Oklahoma	1918-21
No. 370	William W. Rubey	Pershing oil and gas fields, Oklahoma	1918-21
No. 371	William W. Rubey	Pershing oil and gas fields, Oklahoma	1918-21
No. 372 [5]	William W. Rubey; Carle Hamilton	Pershing oil and gas fields, Oklahoma	1918-21
No. 421	Nathan W. Bass; F. D. Spencer	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 422	Nathan W. Bass; B. A. Elliott	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 423	Nathan W. Bass; B. A. Elliott	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 424 [2]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 425	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 442	Wilmot H. Bradley; C. H. Dane	Sweetwater County and other areas, Wyoming / Colorado	1923
No. 443 [2]	Wilmot H. Bradley; C. H. Dane; Julian D. Sears	Sweetwater County and other areas, Wyoming / Colorado	1923
No. 444	Wilmot H. Bradley; C. H. Dane	Sweetwater County and other areas, Wyoming / Colorado	1923
No. 477	Edwin B. Eckel; Arthur E. Granger	Quicksilver deposits, California	1936, 1939-40
No. 478	Edwin B. Eckel	California	d.
No. 479	Edwin B. Eckel; and others	Quicksilver deposits, California	1936, 1939-40
No. 480 [3]	John W. Huddle; Appleton J. Crowley; Nathan W. Bass; and others	Duchesne, Uintah and Wasatch, Utah	1945-47, 1949
No. 481	John W. Huddle; J. M. Gorman; Nathan W. Bass; and others	Duchesne, Uintah and Wasatch, Utah	1945-47, 1949
No. 482 [3]	C. T. Pierson	Reconnaissance for radioactivity, San Juan Mountains, Colorado	1951-53
No. 488	Frederick L. Ransome; M. Gordon Gullett	Oatman Gold District, Arizona	1920-22
No. 978	Chester R. Longwell	Black Hills Rim Project	n.d.
No. 979	William W. Rubey	Black Hills Rim Project	1921-26
No. 980	William W. Rubey; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 981	William W. Rubey	Black Hills Rim Project	1921-26
No. 982	William W. Rubey	Black Hills Rim Project	1921-26
No. 983	William W. Rubey	Black Hills Rim Project	1921-26
No. 984	William W. Rubey; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 985	William W. Rubey	Black Hills Rim Project	1921-26
No. 986	William W. Rubey	Black Hills Rim Project	1921-26
No. 987	William W. Rubey	Black Hills Rim Project	1921-26
No. 988	William W. Rubey; Chester R. Longwell	Black Hills Rim Project	1921-26
No. 989	William W. Rubey	Black Hills Rim Project	1921-26
No. 990	William W. Rubey; Chester R. Longwell	Black Hills Rim Project	1921-26
No. 991	William W. Rubey	Black Hills Rim Project	1921-26
No. 992	William W. Rubey; Chester R. Longwell	Black Hills Rim Project	1921-26
No. 993	William W. Rubey; Milton N. Bramlette	Black Hills Rim Project	1921-26
No. 994	William W. Rubey	Black Hills Rim Project	1921-26
No. 995	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 996	William W. Rubey; Harold W. Hoots; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 997	William W. Rubey; Harold W. Hoots	Black Hills Rim Project	1921-26
No. 998 [2]	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 999 [2]	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 1000 [2]	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 1001	William W. Rubey; Chester R. Longwell; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 1002 [2]	William W. Rubey; Chester R. Longwell	Black Hills Rim Project	1921-26
No. 1003	William W. Rubey	Black Hills Rim Project	1921-26

No. 1004 [2]	William W. Rubey; Harold W. Hoots; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 1005	William W. Rubey	Black Hills Rim Project	1921-26
No. 1006	William W. Rubey; Harold W. Hoots	Black Hills Rim Project	1921-26
No. 1007 [2]	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 1008 [2]	William W. Rubey; and others	Black Hills Rim Project	1921-26
No. 1009 [3]	William W. Rubey; Harold W. Hoots; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 1010 [2]	William W. Rubey; Chester R. Longwell; Alec Stepanoff	Black Hills Rim Project	1921-26
No. 1011 [2]	William W. Rubey; Milton N. Bramlette	Black Hills Rim Project	1921-26
No. 1012 [2]	William W. Rubey; Milton N. Bramlette; Frank A. Melton	Black Hills Rim Project	1921-26
No. 1013	William W. Rubey	Black Hills Rim Project	1921-26
No. 1014 [6]	William W. Rubey	Black Hills Rim Project	1921-26
No. 1097	Nathan W. Bass; Harley F. Barnes	Glenwood Springs, Colorado	1945, 1947-54
No. 1098 [2]	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1099 [2]	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1100	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1101 [2]	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1102	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1103	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1104	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1105	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1106	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1107	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1108	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1109	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1110 [2]	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1111	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1112 [2]	Nathan W. Bass; John C. Benson	Glenwood Springs, Colorado	1945, 1947-54
No. 1113	Nathan W. Bass; Frank G. Cooley	Glenwood Springs, Colorado	1945, 1947-54
No. 1114 [2]	Nathan W. Bass; Stuart A. Northrop	Glenwood Springs, Colorado	1945, 1947-54
No. 1115	Nathan W. Bass; Stuart A. Northrop	Glenwood Springs, Colorado	1945, 1947-54
No. 1116	Nathan W. Bass; Stuart A. Northrop	Glenwood Springs, Colorado	1945, 1947-54
No. 1117	Nathan W. Bass; Stuart A. Northrop	Glenwood Springs, Colorado	1945, 1947-54
No. 1118	Nathan W. Bass; Raymond C. Robeck; James K. Weaver	Glenwood Springs, Colorado	1945, 1947-54
No. 1119	Nathan W. Bass; Raymond C. Robeck	Glenwood Springs, Colorado	1945, 1947-54
No. 1120	Nathan W. Bass; Raymond C. Robeck	Glenwood Springs, Colorado	1945, 1947-54
No. 1121	Nathan W. Bass; Frank D. Spencer	Glenwood Springs, Colorado	1945, 1947-54
No. 1122	Nathan W. Bass; Peter M. Thompson	Glenwood Springs, Colorado	1945, 1947-54
No. 1123	Nathan W. Bass; James D. Vine	Glenwood Springs, Colorado	1945, 1947-54
No. 1124	Nathan W. Bass; James D. Vine	Glenwood Springs, Colorado	1945, 1947-54
No. 1125	Nathan W. Bass; James D. Vine	Glenwood Springs, Colorado	1945, 1947-54
No. 1126	Nathan W. Bass; James K. Weaver	Glenwood Springs, Colorado	1945, 1947-54
No. 1127	Nathan W. Bass; James K. Weaver	Glenwood Springs, Colorado	1945, 1947-54
No. 1128 [4]	Nathan W. Bass; and others	Glenwood Springs, Colorado	1945, 1947-54
No. 1129 [2]	Nathan W. Bass	Glenwood Springs, Colorado	1945, 1947-54
No. 1145	Irving J. Wikind; Julian D. Sears	Abajo (Blue) Mountains, Utah	1950-56
No. 1346 [2]	William W. Rubey; Nathan W. Bass; John B. Reeside, Jr.	Oil and gas resources in vicinity of Russell County, Kansas	1924
No. 1347	William W. Rubey; Milton N. Bramlette	Oil and gas resources in vicinity of Russell County, Kansas	1924
No. 1348 [2]	William W. Rubey; Nathan W. Bass	Oil and gas resources in vicinity of Russell County, Kansas	1924
No. 1349	William W. Rubey	Oil and gas resources in vicinity of Russell County, Kansas	1924
No. 1350 [3]	Nathan W. Bass	Cowley County and vicinity, Kansas	1926
No. 1351 [3]	Nathan W. Bass	Cowley County and vicinity, Kansas	1926
No. 1353 [11]	Nathan W. Bass	Well elevation, Western Kansas	n.d.
No. 1354 [3]	Nathan W. Bass	Central and western Kansas	1924-25
No. 1355 [3]	Nathan W. Bass	Central and western Kansas	1924-25
No. 1356 [3]	Nathan W. Bass	Central and western Kansas	1924-25
No. 1357 [4]	Nathan W. Bass	Central and western Kansas	1924-25
No. 1358	Nathna W. Bass	Central and western Kansas	1924-25
No. 1359	Nathan W. Bass	Central and western Kansas	1924-25
No. 1360	Nathan W. Bass	Central and western Kansas	1924-25
No. 1361 [2]	Nathan W. Bass; John B. Reeside	Central and western Kansas	1924-25
No. 1382	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1384	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1385	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1386 [5]	Nathan W. Bass; Frank D. Spencer	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1387 [4]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1388 [5]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 1389 [8]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54

No. 1425 [3]	Edwin B. Eckel; and others	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1426 [2]	Edwin B. Eckel; and others	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1427 [2]	Edwin B. Eckel; and others	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1428 [2]	Edwin B. Eckel; and others	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1429	Edwin B. Eckel	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1430 [2]	Edwin B. Eckel; and others	Geology and ore deposits of the La Plata District, Colo.	n.d.
No. 1431	Edwin B. Eckel; F. W. Galbraith III; Arthur C. Spenser	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1432 [5]	Edwin B. Eckel	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1433 [4]	Edwin B. Eckel	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1434 [2]	Edwin B. Eckel	Geology and ore deposits of the La Plata District, Colo.	1935-37
No. 1503	Edwin B. Eckel	California	n.d.
No. 1520	Edwin B. Eckel	Paraguay	1952
No. 1521	Edwin B. Eckel	Paraguay	1952
No. 1522	Edwin B. Eckel;	Paraguay	1952
No. 1523 [5]	Edwin B. Eckel	Paraguay	1952
No. 1543 [2]	William W. Rubey; John R. Ball	Hardin and Brussels, Illinois	1928-29
No. 1544 [2]	William W. Rubey	Hardin and Brussels, Illinois	1928-29
No. 1545 [2]	William W. Rubey	Hardin and Brussels, Illinois	1928-29
No. 1546	William W. Rubey	Hardin and Brussels, Illinois	1928-29
No. 1547 [2]	William W. Rubey	Hardin and Brussels, Illinois	1928-29
No. 1548 [2]	William W. Rubey	Hardin and Brussels, Illinois	1928-29
No. 1549 [2]	William W. Rubey; John R. Ball	Hardin and Brussels, Illinois	1928-29
No. 1550 [2]	William W. Rubey; John R. Ball	Hardin and Brussels, Illinois	1928-29
No. 1551 [3]	William W. Rubey; John R. Ball	Hardin and Brussels, Illinois	1928-29
No. 1762 [5]	Irving J. Witkind; and others	Geology and uranium-vanadium deposits, Arizona/ Utah	1951-55
No. 1763 [4]	Irving J. Witkind; and others	Geology and uranium-vanadium deposits, Arizona/ Utah	1951-55
No. 1764 [7]	Irving J. Witkind; and others	Geology and uranium-vanadium deposits, Arizona/ Utah	1951-55
No. 1979 [2]	Nathan W. Bass; Stuart A. Northrop	Glenwood Springs, Colorado	1945, 1947-54
No. 1980 [2]	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1981	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1982 [2]	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1983	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1984	Wilnot H. Bradley; Howard R. Gould	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1985	Wilnot H. Bradley; Howard R. Gould	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1986	Wilnot H. Bradley; Howard R. Gould	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1987	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1988	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1989	Wilnot H. Bradley; Peter Cooke	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1990 [2]	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1991	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1992 [2]	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1993	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1994 [4]	Wilnot H. Bradley; A. B. Bassett; William H. Condon	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1995 [2]	Wilnot H. Bradley	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1996 [4]	Wilnot H. Bradley; Howard R. Gould; Peter Cooke	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 1997 [4]	Wilnot H. Bradley; Peter Cooke	Ecologic features of the Sagadahoe Bay tidal flat, Maine	1949-55
No. 2064 [2]	Eleanora Bliss Knopf; James F. Bell	Stissing Mountain and eastern New York	1925-54
No. 2065 [2]	Eleanora Bliss Knopf; Adolph Knopf	Stissing Mountain and eastern New York	1925-54
No. 2066 [2]	Eleanora Bliss Knopf; and others	Stissing Mountain and eastern New York	1925-54
No. 2067 [2]	Eleanora Bliss Knopf; Adolph Knopf	Stissing Mountain and eastern New York	1925-54
No. 2068 [2]	Eleanora Bliss Knopf; Adolph Knopf	Stissing Mountain and eastern New York	1927-33
No. 2069 [2]	Eleanora Bliss Knopf; G. V. Carroll; Adolph Knopf	Stissing Mountain and eastern New York	1925-54
No. 2070 [3]	Eleanora Bliss Knopf; and others	Stissing Mountain and eastern New York	1925-54
No. 2071 [3]	Wilnot H. Bradley; and others	Stissing Mountain and eastern New York	1927-33
No. 2086	Wilnot H. Bradley	Washakie Basin, Colorado / Wyoming	1933
No. 2087 [3]	Wilnot H. Bradley; Frank S. Parker	Washakie Basin, Colorado / Wyoming	1933
No. 2343	Robert P. Bryson	Moorhead coal field, Montana	1940-63
No. 2784	Nathan W. Bass	Cowley County, Kansas	1926
No. 2791 [3]	Nathan W. Bass; C. E. Straub	Los Animas County, Colo.	1941-43
No. 2792 [2]	Nathan W. Bass	Model anticline, Colorado / Utah / Texas / New Mexico / Oklahoma / Kansas	1941-43
No. 2793 [2]	Nathan W. Bass	Model anticline, Colorado / Oklahoma / Texas / Utah / Kansas	1941-43
No. 2794 [3]	Nathan W. Bass; H. O. Woodbury	Los Animas County, Colorado	1941-43
No. 2795 [2]	Nathan W. Bass	Model anticline, Colorado / Kansas / Utah / New Mexico	1941-43
No. 2796	Nathan W. Bass	Model anticline, Colorado / New Mexico	1941-43
No. 2797 [2]	Nathan W. Bass	Model anticline, Colorado	1941-43
No. 2798 [2]	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 2803 [4]	Nathan W. Bass	Crude oils and stratigraphy, Kansas / Oklahoma	1945-46, 1948
No. 2804	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 2805	Nathan W. Bass	Geology and mineral fuels, Colorado / Utah / Wyoming	1918-54
No. 2806	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57
No. 2807	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57

No. 2808	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57
No. 2809	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57
No. 2810	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57
No. 2811	Nathan W. Bass	Oil field areas of the Denver Basin, Colorado / Nebraska	1951, 1954-57
No. 2812	Nathan W. Bass	Correlation of basal Permian and older rocks, Utah / Colorado/ Arizona / New Mexico	1942-44
No. 2813 [2]	Nathan W. Bass	Correlation of basal Permian and older rocks, Colorado / New Mexico / Arizona / Utah	1942-44
No. 2814 [2]	Nathan W. Bass	Correlation of basal Permian and older rocks, Colorado / New Mexico / Arizona / Utah	1942-44
No. 2815	Nathan W. Bass	Correlation of basal Permian and older rocks, Colorado / New Mexico / Utah / Arizona	1942-44
No. 2816 [2]	Nathan W. Bass; Edwin H. Ekburg	Correlation of basal Permian and older rocks, Colorado / New Mexico / Utah / Arizona	1942-44
No. 2817	Nathan W. Bass	Correlation of basal Permian and older rocks, Arizona / Colorado/ Texas	1942-44
No. 2818	Nathan W. Bass	Correlation of basal Permian and older rocks, Utah / New Mexico / Arizona / Colorado	1942-4
No. 2819	Nathan W. Bass	Correlation of basal Permian and older rocks, Colorado / New Mexico / Oklahoma	1942-44
No. 2820	Nathan W. Bass	Correlation of basal Permian and older rocks, Colorado / Arizona / Utah	1942-44
No. 2821	Nathan W. Bass	Correlation of basal Permian and older rocks, Utah / Arizona	1942-44
No. 2822	Nathan W. Bass	Cliffside Dome and Channing area, Texas	1939-44
No. 2823 [2]	Nathan W. Bass	Various States	various
No. 2845	Nathan W. Bass	Oklahoma / Kansas / Colorado	1936
No. 2846 [2]	Nathan W. Bass	Bartlesville shoestring sands, Kansas	1929-32
No. 2847 [2]	Nathan W. Bass	Bartlesville shoestring sands, Kansas / Missouri / Colorado / New Mexico	1929-32
No. 2948 [3]	Nathan W. Bass; Joseph L. Borden	Bartlesville shoestring sands, Kansas	1929-32
No. 2849 [2]	Nathan W. Bass	Bartlesville shoestring sands, Kansas / Oklahoma	1929-32
No. 2850 [2]	Nathan W. Bass	Bartlesville shoestring sands, Kansas / Oklahoma	1929-32
No. 2851 [3]	Nathan W. Bass; R. V. Henderson	Bartlesville shoestring sands, Kansas	1929-32
No. 2852	Nathan W. Bass	Bartlesville shoestring sands, Kansas	1929-32
No. 2853 [5]	Nathan W. Bass; Harold D. Jenkins	Bartlesville shoestring sands, Oklahoma	1929-32
No. 2854	Nathan W. Bass	Bartlesville shoestring sands, Kansas	1934-41
No. 2855	Nathan W. Bass	Bartlesville shoestring sands, Kansas / Oklahoma	1934-41
No. 2856	Nathan W. Bass	Bartlesville shoestring sands, Oklahoma / Atlantic Beaches	1934-41
No. 2857	Nathan W. Bass	Bartlesville shoestring sands, Oklahoma / Texas	1934-41
No. 2858	Nathan W. Bass	Bartlesville shoestring sands, Oklahoma	1934-41
No. 2859	Nathan W. Bass	Bartlesville shoestring sands, Oklahoma	1934-41
No. 2860	Nathan W. Bass	Bartlesville shoestring sands, Oklahoma	1934-41
No. 3586	Donnel F. Hewett; William W. Rubey	Mineral resources around Boulder Dam, Nevada	1934
No. 3587	Donnel F. Hewett; William W. Rubey	Mineral resources around Boulder Dam, Nevada	1934
No. 3609	Edwin T. McKnight; Edwin B. Eckel	Rico mining district, Colorado	1930-69
No. 3610	Edwin T. McKnight; Edwin B. Eckel	Rico mining district, Colorado	1930-69
No. 3611	Edwin T. McKnight; Edwin B. Eckel	Rico mining district, Colorado	1930-69
No. 3697	William W. Rubey; Frank A. Melton	Black Hills Rim Project, oil and gas possibilities	1921-26
No. 3698 [5]	William W. Rubey	Black Hills Rim Project, oil and gas possibilities	1921-26
No. 3699 [9]	William W. Rubey; Alec Stepanoff	Black Hills Rim Project, oil and gas possibilities	1921-26
No. 4296 [2]	Eleanora Bliss Knopf; and others	McCalls Ferry District, Pennsylvania	1915-21
No. 5611 [3]	William W. Rubey; S. S. Oriel	Sage and Kemmerer, Wyoming	1955-59
No. 5612 [2]	William W. Rubey; J. I. Tracey, Jr.	Sage and Kemmerer, Wyoming	1955
No. 5613 [2]	William W. Rubey; J. I. Tracey, Jr.	Sage and Kemmerer, Wyoming	1955-59
No. 5614	William W. Rubey; J. I. Tracey, Jr.	Sage and Kemmerer, Wyoming	1955-59
No. 5615	William W. Rubey; J. I. Tracey, Jr.	Sage and Kemmerer, Wyoming	1955-59
No. 5616-1	William W. Rubey; S. S. Oriel; J. I. Tracey, Jr.; J. H. Bowie	Sage and Kemmerer, Wyoming	1961
No. 5616-2	William W. Rubey; J. I. Tracey, Jr.	Sage and Kemmerer, Wyoming	1964

## Appendix 13

Geologic Division - Photographic Prints depicting Geological Formations and Features, ca. 1893-1906 (entry 204)

### Volume

- |    |  |
|----|--|
| 1  | Abandoned valleys  |
|    | Alluvial cones, fans, wash plains                                      |
| 2  | Anticlines, synclines, and monoclines                                  |
| 3  | Arêtes   |
|    | Artesian wells   |
| 4  | Badland topography   |
| 5  | Bedded volcanics   |
| 6  | Bedding - (1) massive, (2) thin, (3) thick and thin, (4) hard and soft |
| 7  | Boulders of disintegration, boulder pavements                          |
| 8  | Boulders (transported)   |
|    | Braided drainage   |
| 9  | Breccia  |
|    | Buried Mountains   |
|    | Buttes   |
| 10 | Calderas, canyons  |
|    | Caves, caverns, underground watercourses                               |
| 11 | Cirque lakes   |
| 12 | Cirques  |
| 13 | Cliffs   |
| 14 | Coastal Plains   |
|    | Cols   |
| 15 | Columnar structure   |
|    | Concretions  |
| 16 | Conglomerate   |
| 17 | Contacts and unconformities  |
| 18 | Contacts and unconformities  |
| 19 | Coon Butte, Arizona; Meteor Crater                                     |
|    | Corrasion  |
| 20 | Craters  |
|    | Creep  |
| 21 | Cross bedding  |
|    | Deltas   |
| 22 | Desert lakes and Playas  |
|    | Desert Plains  |
| 23 | Dip-Slope topography   |
| 24 | Dikes  |
| 25 | Domes and dome structures  |
| 26 | Drumlins and Drumloid Hills  |
|    | Dunes  |
| 27 | Earthquake effects   |
| 28 | Exfoliation, spheroidal weathering, shelling                           |
| 29 | Faults (in section)  |

30	Fault topography
	Fault-zone structures
31	Filled valleys
32	Fjords and fiord lakes
33	Flood plains
33	Floods and flood effects
34	Folding (experiments with)
35	Forelands and foreland islets
36	Fossils
37	Fossils
38	Geysers, hot springs, "Mud volcanos"
39	Geysers, hot springs, "Mud volcanos"
39	Glacial outwash
40	Glacial polish, striae, grooves, "chatter marks"
40	Glacier drainage
41	Glaciated valleys (Pleistocene): U-form, V-form
42	Glaciated valleys: wide-open, terraced, deep at head
43	Glaciated valleys: with meadow bottom, with chain lakes
44	Glaciated valleys: with fiord lakes, asymmetric cross-profiles, sap-line, contrasted floors and walls
45	Glaciated valleys: hanging
46	Glaciers : the glacier head, the glacier stream
47	Glaciers: the glacier foot
48	Glaciers: the glacier foot, cascading, hanging
49	Glaciers: glacier structures - banding, flexures, fractures, ablation effects
50	Grand Canyon
	Gravel
	Ground moraines
	Ground water lakes
51	Hanging valleys (non-glacial)
	Hogbacks, "Stonewalls"
52	Horizontal bedding
53	Horizontal sky lines
	Hot-spring deposits (including geyser deposits)
54	Hot-spring deposits (including geyser deposits)
55	Icebergs, slush-ice, work of shore ice
	Immature topography
56	Islands
57	Joints
58	Kames, eskers, osars, kettle moraines
	Loccolithic mountains
	Lakes (non-glacial)
59	Landslides, rockslides
60	Lava flows, and surface features
61	Lenses, "lentils" in sedimentary rocks
	Lenses, in igneous rocks
	Loess, "marl-loess"
	Mammillary topography, mamelon hills
62	Meandering streams
63	Mines and mining: Alabama, Alaska
64	Mines and mining: Alaska
65	Mines and mining: Alaska

66	Mines and mining: Alaska, Arizona, Arkansas
67	Mines and mining: California
68	Mines and mining: Colorado
69	Mines and mining: Connecticut, Georgia, Idaho, Indiana, Kansas, Kentucky, Michigan, Missouri, Montana, Nevada
70	Mines and mining: New Mexico, New York, North Carolina, Oregon, Pennsylvania, South Dakota, Tennessee
71	Mines and mining: Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, Belgium, British Columbia, France, Germany, Unidentified
72	Moraines
73	Mountain fronts
74	Mountain parks
	Mud cracks, sun cracks
75	Mud flows, mud streams, mud runs
	Natural bridges
76	Névé
	Niagara Falls (falls, rapids, gorge)
	Northwest Boundary Monuments
	Nunataks
	Organic agencies in erosion
77	Peaks
78	Peaks
79	Peaks
80	Peneplains
	Perched blocks (of differential weathering)
	Pinnacle topography
81	Planation
	Plateaus, mesas
82	Plication, crumbing, contortion
83	Plication, crumbing, contortion
	Plucking
	Post glacial erosion
84	Pot holes
	Quarries
85	Rain erosion
86	Rifts, rift valleys
	Ripple marks
87	Rivers
88	Roches moutonnées
	Rock basins
89	Rock streams
90	Rock textures (including thin sections)
91	Shore-ice work
	Shore topography
92	Shore topography
	Sills, intrusive sheets
93	Slaty cleavage, stretching, crushing, flow, foliation, banding, schistosity
94	Slaty cleavage, stretching, crushing, flow, foliation, banding, schistosity
95	Sink holes
	Snow-line
	Snow-slide effects

96	Springs
97	Steams, valleys, canyons
98	Streams, valleys, canyons
99	Structure, control in erosion
	Subsidence topography
	Sub-summit plateaus, shoulders, and terraces in glaciated mountains
100	Swamps
	Tabular residuals of mountain peneplains
	Talus
	Tepee buttes
101	Terraces: marine, lacustrine
102	Terraces: fluvial, glacial, hot-spring, structural
103	Till
	Tufa (lacustrine deposits)
104	Veins
105	Volcanic ash
	Volcanic eruptions
	Volcanic necks, plugs, stocks, cores
106	Volcanos, cinder cones, lava cones
107	Waterfalls and cascades
108	Waterfalls and cascades
109	Waterfalls and cascades
110	Weather breccia (mantle rock, regolith)
	Weathering
111	Weathering
112	Weathering
	Yellowstone Falls

## Appendix 14

### Paleontology and Stratigraphy Branch - Office Files of Josiah Bridge, 1922-53 (entry 209)

#### A, Miscellaneous, 1934-42

Acknowledgments, Eminence and Cardareva Quadrangles, 1931-32

A.I.M.M.E., 1948-52

#### B, Miscellaneous, 1930-44

B, General, 1944-53

Balk, Christina L., 1934-51

Barghoorn, Elso S., 1950-51

Barnes, Virgil, 1938-53 (2 files)

Ex-Bauxite Personnel, Personal Letters, 1945-46

Bauxite, Post War Plans, 1948

Bays, Carl A., 1935-40

Bell, W. Charles, 1944-50

Berdan, Jean, 1948-53

Berkey, Charles P., Project 149, 1934-35

Berkey, Charles P., Project 171, 1933-39

Berry, Edward M., 1933

Bevan, Arthur C., 1931-42

Bibliographies, Josiah Bridge, ca. 1937-50 (2 files)

Bibliographies and Notes for Lectures in Geology Courses, n.d.

Bills of Lading and Miscellaneous, ca. 1952

Biological Abstracts, ca. 1928-36

Bridge, Josiah, 1922-49

Bucher, Walter H., 1934-43

Buchler, H. A., 1930-41

Bucot, Arthur J., 1951-52

#### C, Miscellaneous, 1931-46

C, General, 1944-53

Cambrian Correlation Charts, ca. 1940-42

Campbell, E. Taylor, 1930-32

Catalogues, ca. 1926-40

Civil Service Examination Announcements, ca. 1936-42

Cloud, Preston E., 1931-52 (2 files)

Cloud, P. E., Ilano Uplift Project, 1943-46

Cooper, Bryon N., 1951-53

*The Core Driller*, ca. 1952

Cullison, James S., 1930-52 (4 files)

#### D, Miscellaneous, 1932-43

D, General, 1946-52

Decker, Charles E., 1931-52 (2 files)

Dott, Robert H., 1951

Dunbar, Carl O., 1932-44

Duncan, Helen, 1951-52

Dunlap, Jack C., 1944-48

E, Miscellaneous, 1931-40  
E, General, 1948-52  
"Early Man, and His Culture in the New World," a partial bibliography, n.d.

F, Miscellaneous, 1932-46  
F, General, 1946-51  
Ferguson, Herman W., 1951-52  
Fischer, Elizabeth C., 1943-49  
Fisher, Donald W., 1949-51  
Flower, Rousseau H., 1950-53  
Folger, Anthony, 1945-47  
Fowler, Laura J., 1932-40

G, Miscellaneous, 1930-42  
G, General, 1945-53  
Geologic Names Committee, 1930-53 (2 files)  
Geological Society of America, 1935-48 (3 files)  
Geological Society of America, Meetings, 1936-52 (4 files)  
Geological Society of America, Nominations for membership, 1945-48  
Geological Society of Washington, Constitution, n.d.  
Geological Survey, Great Britain, 1931-37  
Gilluly, James, 1937-51  
Goldich, Sam S., 1945-53  
Gould, Don B., 1930  
Grave, Oliver R., 1930-39  
Grohskopf, John G., 1948-51  
Group Hospitalization, n.d.

H, Miscellaneous, 1931-42  
H, General, 1945-52  
Ham, William E., 1950-52  
Heller, Robert L., 1947-49  
Hoen and Company, A., 1930-31  
Howell, Ben F., 1930-52 (2 files)

I, Miscellaneous, 1930-41  
I, General, 1952  
Illustrations, Professional Paper 186-M  
International Geological Congress, 1931-33

J, Miscellaneous, 1931-42  
J, General, 1948-52  
Jones, Daniel J., 1951

K, Miscellaneous, 1930-43  
K, General, 1937-53  
Kansas Geological Society, 1935  
Kay, G. Marshall, 1929-41  
Kesler, Thomas L., 1949-52  
King, Philip B., 1939-53  
Knight, J. Brooks, 1931-39

L., Miscellaneous, 1930-43  
L., General, 1946-53  
Ladd, Harry S., 1943-50  
Laurence, Robert A., 1943-53  
Lexicon of Stratigraphic Names Corrections [contents charged out in 1953]  
Library, 1932-39  
Lochman, Christina, 1930-44 (2 files)

Mc, Miscellaneous, 1931-39  
Mc, General, 1951  
McGerrigle, H. W., 1930-35  
McQueen, H. S., 1930-42

M, Miscellaneous, 1931-44  
M, General, 1946-53  
Maher, Stuart W., 1951  
Maine Project, 1941-42  
Matthes, François E., 1930  
Military Geology, 1945-47  
Miller, Arthur K., 1929-42  
Miser, Hugh D., 1930-52 (2 files)  
Missouri Bureau of Geology and Mines, 1932  
Monroe, Watson H., 1942  
Moore, Raymond C., 1931-39  
Muilenburg, Garrett A., 1930-52 (2 files)

N, Miscellaneous, 1931-42  
N, General, 1949-53  
National Research Council, ca. 1935  
National Science Foundation, ca. 1952

O, Miscellaneous, 1935-40  
O, General, 1952  
Oder, Charles R. L., 1932-52  
"Oil" Literature, n.d.  
Olaf, Nylander, ca. 1941-42

P, Miscellaneous, 1931-43  
P, General, 1944-52  
Paleontological Research Institute, 1936  
Paleontological Society, n.d.  
Palmer, Allison R., 1950-52  
Park, Charles F., 1945-52  
Paulin Altimeter, ca. 1942-43  
Pecora, William T., 1948-49  
Personnel List, A-B, ca. 1945  
Pick & Hammer Club, 1948-50  
Plummer, Fred B., 1932-41  
Pond, Walter F., 1945-47 (2 files)  
Princeton University, ca. 1942-48

Q, Miscellaneous, 1935

Q, General, 1935-38

R, Miscellaneous, 1930-43

R, General, 1946-53

Raasch, Gilbert O., 1931-40

Read, Charles B., 1931-38

Reeside, John B., 1934-47 (2 files)

Reports on Collections, 1949

Reports on Fossils, ca. 1933

Reports of Eastern Regional Office, 1942-45 (2 files)

Rogers, John, 1940-52

Ruedemann, Rudolf, 1931-39

S, Miscellaneous, 1930-44

S, General, 1946-53

Sellards, E. H., 1931-37

Stauffer, Clinton R., 1931-38

Stose, George W. and Anna I. Jonas, 1930-36

Survey, Authorizations, Plans for field work etc., 1930-42

Survey, Director, Chief Geologist, 1932-42

Survey, Memorandums., 1925-43

Survey, Travel vouchers 1932-41

Symbols, Geologic, n.d.

T, Miscellaneous, 1930-38

T, General, 1945-53

Teaching Material, n.d.

Tennessee, Douglas Dam, ca. 1943

Tennessee, University of, Symposium, 1949

Thermal Analysis Unit, 1950-51

Trowbridge, Augustus, 1930-39

Trucks, Ford, 1934

Twenhofel, W. H., 1932-48 (2 files)

U, Miscellaneous, 1931-35

U, General, 1951-52

U.S.G.S., Bridge, J., Personal Papers (Administrative Items: field equipment, travel, etc.) (3 files)

U.S.G.S., Bridge, J., Personal Papers (Expenses & Accounts) (3 files)

Ulrich Lectures at Columbia, ca. 1930-31

Ulrich, E. O., ca. 1932

U. S. National Museum, 1936-41

V, Miscellaneous, 1935

V, General, 1946-51

Vouchers

W, Miscellaneous, 1931-44

W, General, 1938-53

Whitcomb, Lawrence, 1931-40

White, Walter S., 1941-52 (2 files)

Woodward, Herbert P., 1951-52

## Appendix 15

### Mineral Deposits Branch - General Administrative and Correspondence Files, 1909-53 (entry 219)

\*Accretions to this series are shown at the end of this list.

000	Memorandums, 1943-47
010	General - Geologic Branch, 1936-41
011	Metalliferous Section - General, 1940-41
011	Strategic Minerals, 1941-43
011	Strategic Minerals, 1934-49
011.2	Strategic Minerals, 1934-41
012	Strategic Minerals - General, 1941
012	Strategic Minerals - General, 1943
012	Strategic Minerals, n.d.
012.5	Western Phosphate Fertilizer Industry, 1946-47
012.6	Committee - Speeches - Programs, 1939-46
014	NSRB File, 1951
020	Committees (general), 1931-46
020.1	Geochemical Prospecting Unit, 1946-47
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408.52 Public Works Administration Fund and projects, 1937-38  
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 425.54 Southern Appalachians - Federal Projects, 1934-35  
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 510 Arizona Bureau of Mines, 1918-47  
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510.9 Artillery Peak, Arizona (manganese), 1941-47  
 510.10 Casa Grande District, 1938  
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 510.30 Suggestions for Geologic work - Arizona, 1920-39  
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 520.1 Olaf P. Jenkins, 1940-53  
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         California by James F. Allister, 1947  
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 540.30 Suggestions for geological work - Idaho, 1913-46  
 540.7 Lake Pen d'Oreille Region, Idaho, 1930-32  
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546 Michigan Department of Conservation, 1943-52  
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548 Missouri Geological Survey and Water Resources, 1942-53  
550 Montana Bureau of Mines and Geology, 1946-43  
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550.10 Pioneer District, Montana, reconnaissance, 1940  
550.30 Suggestions for geologic work - Montana, preliminary review of the mineral and fuel resources of the  
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– Nebraska State Conservation and Survey, 1949-53  
560 Nevada Bureau of Mines, 1917-53  
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560.7 Tonopah Quadrangle, Hawthorne, Nevada, 1922-38  
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560.14 Sonoma Range Quadrangle, Nevada, 1940-48  
560.30 Suggestions for geologic work - Nevada, 1935-45  
568 New Hampshire Water Resources Board, 1944-53  
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570.5 White Signal District, New Mexico, 1930-31  
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580 Oregon Department of Geology and Mineral Industries, 1928-53  
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581 Pennsylvania Department of Forests and Waters, 1943-52  
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594 Vermont Department of Natural Resources, State Geologist, 1947-53  
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596 Washington Division of Mines and Geology, 1949-53  
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598 Wisconsin Geological and Natural History Survey, Geology Division, 1946-52  
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 599.30 Suggestions for Geological Work - Wyoming, 1914-1947  
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 011.4 National Mineral Industry - Resources, 1946-48  
 001.6 Mineral Mobilization Planning, n.d.  
 – Topographic Map needs, 1947  
 011.7 Topographic Map needs, 1949  
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  - 10.l Columbia Basin Inter-Agency Committee
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- 26. *Nation-wide Surveys*
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16	Reports, Field Assistants, 1918-21
17	Reports, annual, 1920-21
17	Correspondence regarding Arthur Stiles, 1905-6
18	Correspondence regarding Arthur Stiles, 1905-6
18	Letters from Committee and E. M. Douglas regarding Arthur Stiles, 1905-6
–	Letters from members of Congress regarding the Stiles Case, 1905-6
–	Special Committee formed to consider the Stiles matter, 1905-6
–	Correspondence, charges, and Committee report on Stiles matter, 1906
18	Hot Springs, Arkansas, Drainage and Sewage Report, J. W. Barnett, 1913
19	Geological Appropriations, 1879-80 to 1901-02 [bound volume]
19	"Nature and Uses of the Topographic Maps of the United States Geological Survey" - printed, n.d.
19	Non-Cooperative expenditure of Survey, 1890-91, 1904-5
19	Statement of Cooperation to July 1, 1907
19	Cooperative Expenditures, by State, FY 1914-15 to 1922-23
19	Cooperation, general, 1907-14
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20	Drainage, 1907-10
20	Partial report on the swamp and overflow lands of the United States by Sledge Tatum, 1910
20	Drainage, Kaskaskia River Survey, 1911
–	Unification of symbols, 1907-9
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21	Maps, Editing and Printing Committee, 1898-1908
–	Condition of Surveys (U.S.) including cooperative surveys, 1892-1906
21.1	Committee on Records and Business Methods, 1914
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21.4	Committees, temporary, 1910-20
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040 Conventions, conferences, (organizations, States, universities) "T," 1950-51  
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 111 Interior Department, Secretary of, etc., Reports to the Secretary, monthly F. Y. 1948, 1948-49  
 111 "Accomplishments of the Geological Survey under the Administration of  
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     A Report to the Secretary of the Interior, 1949  
 142.07 Alaska Field Committee, Minutes, 1949-51 (4 items)  
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503.31B Plans Unit, W. C. Thompson, 1947-53  
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503.4B Production Control Section, R. F. Thurston, 1947-53 (5 files)  
--- Report of the Production Control Section on the Operations of the Topographic Division for fiscal years 1950, 1951, 1952 (3 binders)  
503.5B Coordination and Liaison Section, A. C. Stiefel and G. S. Druhot, 1947-53 (2 files)  
503.6B Plans Unit, F. L. Witkege, 1946-53 (2 files)  
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503.8B Production Control Section, R. O. Maxson, 1948-53 (2 files)  
 503.8B Production Control Section, Cost Analysis Instruction, 1947-53  
 503.8B Production Control Section, Cost of Maintaining and Expanding a Force, 1950-52  
 503.8B Production Control Section, Definition of Operational Phase and related Codes, 1949-53  
 503.8B Production Control Section, Instructions for the use of the EOR and FEOR, 1951-53  
 503.8B Production Control Section, Operating Program - Charting and Presentation, 1949-53  
 503.8B Production Control Section, Defense Program, 1951-53  
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 503.33C Research and Development Unit, David Landen, 1949-53 (2 files)  
 503.33C Research and Development Unit, Interim Report on Steptoe to Quadrangle, 1951  
 503.4C Photogrammetry Section, R. K. Bean, 1947-53 (4 files)  
 503.41C Aerial Photography Unit, W. E. Harman, 1948-53 (2 files)  
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 503.5C Cartography and Map Editing Section, C. F. Fuechsel, 1947-53 (4 files)  
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 504 Personnel Section, Reports, 1947-53 (2 files)  
 504 Underage Field Assistants, 1948-53  
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 506 Contract Mapping, 1947-53 (2 files)  
 510 Alabama, 1948-53  
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 510 California, 1943-53 (4 files)  
 510 California, "Report and Recommendations to the California State Reconstruction and  
 Reemployment Commission by the State Aerial Mapping Project Committee,"  
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 510 California, Post War, 1945-46  
 510 Colorado, 1945-53  
 510 Connecticut, 1944-52 (2 files)  
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 510 Florida, St. John's Watershed, 1951-53  
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 510 Guam [cross reference sheet only]  
 510 Hawaii, 1947-53 (2 files)  
 510 Idaho, 1944-52  
 510 Illinois, 1943-51  
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510 Proceedings, East Central Branch Conference of the Water Resources Branch,  
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 510 Kansas, 1943-53  
 510 Kentucky, 1931-52 (2 files)  
 510 Louisiana, 1943-53  
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 510 Nevada, Postwar Mapping, 1944  
 510 New Hampshire, 1943-53  
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 510 New York, 1943-53  
 510 North Carolina, 1943-53  
 510 North Dakota, 1943-49  
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       Interior in the State of Oklahoma," December 1945 (2 copies)  
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 510 Pennsylvania, 1944-53  
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 510 Texas, 1944-53 (3 files)  
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 510 Washington, 1943-52 (2 files)  
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 510 West Virginia, 1943-49  
 510 Wisconsin, 1946-52  
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 510.2 Purchase by Survey from outside concerns, 1947-52  
 515 Aerial Topography and other Information requested by Survey, 1947-51  
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 571 Cooperation: Topographic Mapping Policy Committee letters to State Geologists; uniform  
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 571 Cooperation, California, Reports, Acts, cooperation, 1900-47  
 571 Cooperation, California, Department of Engineering, 1908-36 (3 files)  
 571 Cooperation, California, Arthur P. Davis, East Bay Municipal Utility District, 1924-36  
 571 Cooperation, California, Southern California Edison Company, Colorado River Survey, 1921-29  
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 571 Cooperation, Colorado, C. W. Henderson, 1923-34 (2 files)  
 571 Cooperation, Colorado, Denver, 1932-45  
 571 Cooperation, Connecticut, 1948  
 571 Cooperation, Connecticut, Agreements, 1889-1958  
 571 Cooperation, Connecticut, Highway Commission, 1922-53  
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 571 Cooperation, Delaware, C. D. Buck, 1926-37  
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 571 Cooperation, Louisiana, Aerial surveys, 1932-41  
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 571 Cooperation, Ohio, Lucas County, 1934-36  
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 571 Cooperation, Pennsylvania, aerial photography, 1935-41  
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 571 Cooperation, Puerto Rico, PWA, 1934-38  
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 571 Cooperation, Santo Domingo, office equipment, 1919-21  
 571 Cooperation, Santo Domingo, financial statements, 1919-21  
 571 Cooperation, South Carolina, Acts and agreements, 1933, 1952  
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 571 Cooperation, South Dakota, Acts and agreements, 1921-22  
 571 Cooperation, Tennessee, 1924-37, 1949-53 (2 files)  
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 571 Cooperation, Texas, Board of Water Engineers, 1924-38  
 571 Cooperation, Texas, State Reclamation Engineer, 1925-38  
 571 Cooperation, Texas, Winter Garden District, 1929-30  
 571 Cooperation, Texas, Cameron County, 1928-37  
 571 Cooperation, Texas, Galveston County, 1928-34  
 571 Cooperation, Texas, Harris County, 1915-27  
 571 Cooperation, Utah, 1924-52  
 571 Cooperation, Utah, Acts and agreements, 1922-51  
 571 Cooperation, Utah, Green River, 1922-26  
 571 Cooperation, Vermont, 1924-52  
 571 Cooperation, Vermont, Acts and agreements, 1913-52  
 571 Cooperation, Vermont, river surveys, 1928-30  
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 571 Cooperation, Virginia, Shenandoah Park, 1927-36  
 571 Cooperation, Virginia, Levels, 1928-29  
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 571 Cooperation, Washington, aerial photographs, 1936-41  
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 571 Cooperation, Wisconsin, aerial photographs, 1926-31, 1937-41 (2 files)

571 Cooperation, Wisconsin, planimetric maps, 1937-42  
 572A Aeronautical Chart Service, 1947-53  
 572Aa Harvey T. Kelsh, Soil Conservation Service, 1947-53  
 572Ab Production and Marketing Administration, 1948-52  
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 572Ac Memorandum of Understanding, methods of testing contracted topographic maps, 1948  
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 572Ac Camp Beale, California, 1946-47  
 572Ac Camp Irwin, California, 1946-49  
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 572Ac Camp Carson, Colorado [cross reference sheet only]  
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 572Ac Camp Atterbury, Indiana, 1946-48  
 572Ac Fort Riley, Kansas, 1947-48  
 572Ac Camp Campbell, Kentucky-Tennessee, 1946-48  
 572Ac Fort Knox, Kentucky, 1945-48  
 572Ac Aberdeen Proving Ground, Maryland, 1947-48  
 572Ac Fort Custer, Michigan, 1946-48  
 572Ac Camp Shelby, Mississippi, 1946-48  
 572Ac Camp Crowder, Missouri, 1945-47  
 572Ac Fort Leavenworth, Missouri-Kansas, 1947-49  
 572Ac Fort Bragg, North Carolina, 1946-49  
 572Ac Wright Field, Ohio, 1945-46  
 572Ac Camp Gruber, Oklahoma, 1948  
 572Ac Fort Sill, Oklahoma, 1946-48  
 572Ac Camp Croft, South Carolina, 1948  
 572Ac Camp Campbell, Tennessee, 1946  
 572Ac Big Bend, Texas, 1946-48  
 572Ac Camp Bowie, Texas, 1947-49  
 572Ac Camp Hood, Texas, 1947-48  
 572Ac Camp Maxey, Texas-Oklahoma, 1947-48  
 572Ac A. P. Hill Military Reservation, Virginia, 1947-48  
 572Ac Camp McCoy, Wisconsin, 1947-48  
 572Ac Fort Francis E. Warren, Wyoming, 1946-49  
 572Ad Carrizo Mountains Project, 1949-52  
 572Ad Atomic Energy Commission, 1948-53 (2 files)  
 572Ad Atomic Energy Commission, Elk Ridge, Utah, 1952-53  
 572Ad Atomic Energy Commission, Marysville, Utah, 1952-53  
 572Ae U. S. Air Force, 1947-53  
 572C Coast and Geodetic Survey, cooperation with, 1947-53 (2 files)  
 572Ca Columbia River Basin, 1947-49  
 572F Fish and Wildlife Service, 1947-52  
 572Fa Forest Service, 1939-53  
 572I Bureau of Indian Affairs, 1947-51  
 572L Bureau of Land Management, 1947-53  
 572M Bureau of Mines, 1947-53  
 572N National Bureau of Standards, 1947-52  
 572N Florida, 1947-48

572N San Juan National Historic Site, 1952-53  
 572Na National Park Service, 1947-53  
 572N Hydrographic Office, 1947-48  
 572N Camp Pendleton Area, 1947  
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 572R Santa Barbara County, 1951  
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 572Ra Research and Technical Control Division, Missouri River Basin, General, 1946-52  
 572Ra River basin reports, 1947-48  
 572Rb Bureau of the Budget, soil survey of the Missouri River Basin, 1948-49  
 572RaC Coast and Geodetic Survey; Conservation Division, 1948-50  
 572RaB Missouri River Basin, H. C. Beckman correspondence, 1948-50  
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 572RaD Missouri River Basin, R. O. Davis, Rocky Mountain Region Engineer, correspondence, 1947-50  
 572RaD Missouri River Basin, 1951-53  
 572RaD Fairchild R6-3 Project, 1947-53  
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 572RaG Missouri River Basin, Geologic Division, 1949-50 (2 files)  
 572RaK Missouri River Basin, Daniel Kennedy, Central Region Engineer, correspondence, 1948-53 (2 files)  
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573Aa Alaska Mapping Program, 1907-46 (3 files)  
 573A Alaska, field plans and activities, 1948-53  
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 573AL Alaska, 1948-50  
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 573AN Alaska, 1933-44, 1948-52 (2 files)  
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 573AS Alaska, including Sargent Ice Field, 1948-52  
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 573AaA Alaska, Alaska Road Commission, 1934-47  
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 573AaA Alaska, Army Map Service, 1948-56  
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 573AaC Alaska, 1930-53 (2 files)  
 573AaC Alaska, Canada, 1950-53  
 573AaC Alaska, Coast and Geodetic Survey, 1947-53  
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 573AaD Alaska, Director, 1948-53  
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 573AaG Alaska, including Geographic Names, 1949-53 (2 files)  
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573C Cooperation, Conservation Division, Grinnell and Sperry Glaciers, Montana, 1951-52  
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 574 Cooperation with other counties and governments, "D" - "F," 1947-53  
 574 Cooperation with other counties and governments, "N," 1947-53  
 574 Cooperation with other counties and governments, "P" - "Z," 1947-52  
 575 Cooperation with individuals, firms, cities, States, etc., 1947-53  
 580 Requests for topographic information, "A" - "E", 1947-53  
 580 Requests for topographic information, "F" - "Z", 1947-53  
 591 Requests for geographic name information, 1949-53  
 594 Requests for permission to join topographic field parties, 1948-52  
 600 Water Resources Branch, Chief Hydraulic Engineer, 1948-53  
 620 Requests for information and general correspondence regarding underground water, 1948-50  
 650 Correspondence with Personnel, 1947-53  
 680B "Water Resources Bulletin," November 1947  
 700 Conservation Branch, Chief of, 1947-52  
 740 Correspondence with Personnel, 1949-50  
 800.1 Sections of Illustrations and Texts, 1947-53  
 800.2 Division of Distribution; Publications Office, 1947-53  
 800.3 Division of Map Reproduction, 1947-53  
 802 State base maps, 1947-53  
 803 State index maps, 1946-53  
 810 Special maps, printed reports, view for Department and others, 1948  
 820 Instructions, suggestions, etc., 1948  
 822 Criticisms, corrections, etc., 1937-53 (3 files)  
 822 "Quarter-inch Map of Great Britain: Sheet 5, The Eastern Highlands." 1946 [one folded map]  
 831 Distribution and sale of maps, publications, 1948-52  
 831.9 Maps given free to State officials, employees, 1947-50  
 832 Reprints of maps and publications, 1947-53  
 832.2 Corrections of revisions for reprinted publications, 1951  
 837 Lists of publications, correspondence, etc., 1947-53  
 839 Requests for information as to delay in map issuance, 1948-50  
 841 Editing of publications, maps, manuscripts, 1948  
 841.2 USGS to pass on quality of manuscripts of others, 1951  
 842 Authority to make publications, 1931-53  
 842.4 Requests for permission by other bureaus, departments, and States to publish manuscripts, 1949-50  
 842.7 Firms, etc., desire permission to use Survey maps, 1950  
 843 Requests for engraving, printing, lithographic, 1947-50  
 843.2 Requests from outside persons, firms, cities, States, etc., 1947-52  
 843.3 Furnishing transfers to States, individuals, etc., 1947-52  
 846 Maps loaned or in possession of others, 1948-49  
 850 Survey requested to correct or edit articles on its work, 1947-48  
 860 Photographic Laboratory and illustrations, 1949  
 869 Storage and printing facilities for aerial negatives, photographs, etc., 1948  
 894 Information on methods of map reproduction, etc., 1948  
 895 Millionth Scale Map, 1951  
 900 Special Maps Branch, J. I. Davidson, 1950-53  
 900 Special Maps Branch, Kerwin Linck, 1948-53  
 900 Atlantic Region Engineer, D. H. Watson, 1946-53 (10 files)  
 900 Atlantic Region, Chief Clerk, Lillian D. Kellogg, 1942-53  
 900 Atlantic Region, Administrative Assistant, Ola H. Mattingly, 1950-52  
 900 Central Region Engineer, Daniel Kennedy, 1948-53 (19 files)  
 900 Central Region Engineer, Daniel Kennedy, Korea, 1950-52

900 Central Region, Chief Clerk, Fred. B. Bryant, 1947-53 (5 files)  
900 Rocky Mountain Region Engineer, R. O. Davis, 1946-53 (14 files)  
900 Rocky Mountain Region, Chief Clerk, 1948-53 (4 files)  
900 Pacific Region Engineer, C. A. Ecklund, 1947-53 (20 files)  
900 Pacific Region, Program plans, 1951, 1953  
900 Pacific Region, Chief Clerk, 1947-53 (2 files)

## Appendix 19

### National Mapping Division - Correspondence of Officials in Charge of Field Surveys, 1918-49 (entry 296)

Bailey, Joe K. (Chattanooga, Tenn.) 1941-49  
Burkland, Albert O. (Honolulu, Hawaii), 1921-32 (3 files)  
Cooke, Charles E. (Austin, Tex., 1921-25  
Davey, Charles H. (Chattanooga, Tenn.), 1935-36  
Davidson, John I. (Chief, Trimetrogon Section, Washington, D. C.), 1947-49  
Davis, George R. (Sacramento, Calif.), 1921-22  
Druhot, George S. (Honolulu, Hawaii), 1927-30 (2 files); the file includes correspondence with Albert O. Burkland  
Ecklund, Conrad A. (Sacramento, Calif.), 1923-47 (7 files)  
Fisher, Charles R. (Chattanooga, Tenn.), 1934-37 (2 files)  
Gerdine, Thomas G. (Sacramento, Calif.), 1923-33 (5 files)  
Gleissner, Max J. (Denver, Colo.), 1925-49  
Groff, Jr., Fred (Denver Colo.), 1926-41 (5 files)  
Griffin, William H. (various field offices), 1924-35  
Groninger, John G. (Chattanooga, Tenn.), 1936-49  
Harrison, John P. (Sacramento, Calif.), 1923-47  
Herron, William H. (Urbana, Ill. and State Geological Survey), 1922-30  
Hodgeson, Herbert H. (Sacramento, Calif.), 1924-45 (3 files)  
Hughes, Frank W. (Urbana, Ill. and other field offices), 1922-47  
Kelley, L. A. (Sacramento, Calif.), 1925-47 (5 files)  
Kendall, C. B. (White Plains, N. Y. and Columbia, S. C.), 1923-40 (2 files)  
Kilmartin, Jerome O. (Puerto Rico), 1938-42 (2 files)  
Lloyd, William J. (various field offices), 1918-38  
Nelson, Clarence L. (Austin, Tex. and Board of Water Engineers), 1921-41 (4 files)  
Nelson, Oscar H. (Detroit, Mich.), 1926-41 (2 files)  
Pendleton, Thomas P. (Chattanooga, Tenn.), 1919-41 (8 files)  
Pike, Albert (Island of Santo Domingo and various other field offices), 1919-46 (4 files)  
Sadler, Carl L. (Central Division), 1938-48 (13 files)

## Appendix 20

### National Mapping Division - Records Concerning Cooperative Mapping Projects, 1926-49 (entry 304)

Alabama District Engineer, 1928-30  
Army River Surveys, Acts, Instructions, etc., 1926-29  
List, Army District Engineer Offices, ca, 1936  
Army Maps, "F", 1943-44  
Army "France" Project, 1943-45  
Army "Italy" Project, 1943-44  
Alabama National Forest, 1929-30  
Arizona, 1930  
Ajo Mining District, Arizona, 1930-31  
Globe #2, Arizona & Spencer Creek #4, Arizona, 1943-47  
Camp Verde, Arizona, 1931  
Chiricahua National Monument, Arizona, 1932-33  
Water Resources Branch level line near Lodi, California, 1932  
Papago Indian Reservation surveys, Arizona, 1932  
Salt River Project, Arizona, 1931-33  
Sitgraves National Forest, Arizona, 1931-32  
Arkansas bauxite area; Little Rock area, 1944-45  
Ozark National Forest, Arkansas, 1929-31  
Kramer, California - Borax mines; Searles Lake Quadrangle, 1931-32  
San Francisco-Oakland Metropolitan District, 1937-41  
California Cooperation, 1931-44  
Fallbrook Naval Ammunition Depot, California, 1941-47  
Crucero Quadrangle, California, 1928-29  
Hoaglin Quadrangle, 1929-32  
Kettleman Hills, California Cooperation, 1930-31  
Kings River, California, 1931  
Pilliken Chromite District, Eldorado County, California, 1943-44  
Los Angeles County, California Cooperation, 1927-47 (7 files)  
U. S. District Engineer, San Francisco, California, 1930-31  
State Engineer, California, Cooperation, 1929-31  
White River, California, 1931-32  
Yosemite National Park, California, 1931-32  
Yreka Quadrangle, California, 1932  
Colorado State contour map, 1930-32  
Everglades National Park, Florida, 1935-36  
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Florida District Engineer, 1928-34  
Georgia District Engineer, 1929-32  
Georgia, Possible Cooperation, 1932-33  
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Craters of the Moons National Monument, Idaho, 1930-32  
Irwin Quadrangle, Idaho, 1929-32  
Kootenai Project, Idaho, 1928-32  
Latah County and Moscow, Idaho; Glendo Area, Wyoming, 1944-47  
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 Bureau of Prisons, Sandstone, Minnesota, 1932-33  
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 Mississippi District Engineer, 1928-31  
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 Missouri District Engineer, 1928  
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 Libby Quadrangle, Montana, 1928-31  
 Bison Range, Montana, 1927-30  
 Thompson and Trout Creek, Montana, 1931  
 Halleck Quadrangle, Nevada, 1929-31  
 Hawthorne Project, Nevada, 1927-29  
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 New Jersey Emergency Relief Administration, 1931-32  
 New Mexico, Cooperation, Geology, 1930-32  
 Pacific Division, General Plans, 1929-35 (2 files)  
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 Richfield, Utah, 1931-32  
 Zion National Park, Utah, 1928-33  
 Fredericksburg and other battlefields, Virginia, 1931-32  
 Williamsburg, Virginia, 1931  
 Eatonville Quadrangle, Washington, 1930  
 Mt. Olympus, Aerial Photographs, 1929-36  
 Lower Columbia River Mapping, 1929-31  
 Upper Columbia River Mapping, 1929-32  
 Metaline Quadrangle, Washington, 1931-37  
 Subsistence Homesteads, Readsville, West Virginia, 1933-34  
 West Virginia District Engineer, 1929  
 Camp McCoy and Camp Williams, Wisconsin, 1930-32

Grand Teton National Park, Wyoming, 1931  
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 Savery Creek, Wyoming, 1931-33  
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 Fort Totten Indian Agency, North Dakota, 1930-31  
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 El Reno Reservation, Oklahoma, Department of Justice, 1931  
 Crater Lake National Park, Oregon, 1931  
 Oregon Cooperation, the Dalles, 1929-31  
 Dayville Reservoir Site, Oregon, 1931  
 Dufur Quadrangle, Oregon, 1930-31  
 Lava Butte, Oregon, 1931  
 Mt. Washington Sheet and Maiden Peak Quadrangle, Oregon, 1928-32  
 Pendleton Quadrangle and Oregon Cooperation, 1919-31  
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 Willow Creek District, Wyoming, 1942-43  
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 Proposed Surveying and Mapping Programs, 1934-36  
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## Appendix 21

### National Mapping Division -Records Concerning Aerial Mapping, 1927-48 (entry 307)

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Alaska work, Denver personnel, 1946-48  
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Jackson, Mississippi, Aerial Photographic Project, 1931  
St. Louis, Missouri - aerial, 1932  
Ozark Region, Missouri, aerial, 1935  
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New Hampshire-Vermont, aerial, 1928-31  
New Jersey, aerial, 1938  
Catskill Quadrangle, New York, aerial, 1930-34  
North Carolina and Virginia, aerial, 1938  
North Dakota, aerial, 1935, 1938  
Oklahoma, aerial, 1928, 1938-40  
Honolulu [file charged out to USGS in 1962?]  
Missouri, aerial, 1930-31  
Alabama and Mississippi, aerial, 1939-42  
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Arkansas, aerial, 1935, 1937-42 (2 files)  
Arizona, California and Oregon, aerial, 1940-42  
Arizona and California, aerial, 1932-33  
Death Valley Area, California, aerial, 1931  
Lakeport, California, aerial, 1931-36  
Yosemite Valley Project, 1928-29  
Delaware River, aerial, 1936  
Connecticut, aerial, 1928-1934, 1938  
District of Columbia and vicinity, aerial, 1937-41  
Florida, aerial, 1935-38  
Idaho, Montana, Oregon and Nevada, aerial, 1937-41  
Newsome Quadrangle, Idaho, aerial, 1928-32  
Kankakee and Sangamon Rivers, Indiana and Illinois, aerial, 1928  
Indiana, aerial, 1934-42  
Kentucky Mammoth Cave National Park, Kentucky, aerial, 1930-31  
Kentucky, aerial, 1928-29  
Ramapo Quadrangle, New Jersey, aerial photographs, 1935  
Great Smoky Mountains National Park, 1929-32  
Texas, aerial, 1936-40  
Colorado and Utah, aerial, 1939-40  
New York and Vermont, aerial, 1939-40  
Pennsylvania, aerial, 1931-33  
Tennessee, aerial, 1930-31  
Virginia, aerial, 1931-32  
Lexington & Christianburg areas, Virginia, aerial, 1930-31  
Charlottesville Quadrangle, Virginia, aerial, 1930-31  
Colonial Monument, Virginia, aerial, 1929-33

Accomac and Eastville Quadrangles, Virginia, aerial, 1930  
 South Carolina, Mississippi, Georgia and Alabama, aerial 1934-38  
 Natural Bridge, Virginia, aerial, 1928-29  
 Shenandoah National Park, Virginia, aerial, 1928-30  
 Lynchburg and Monterey Quadrangles, Virginia, aerial, 1936-41  
 Lower Columbia River, aerial, 1929  
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 Metaline Zinc Area Project, Washington, 1944-47  
 Stereoscopic Mapping from the Air, script for sound on film (2 files)  
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 Agricultural Adjustment Agency and Soil Conservation Service, 1936-46 (2 files)  
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 Lists of aerial photograph companies, ca. 1929, 1940  
 Camera, stereophoto equipment, Bagley Calculator, etc., 1940-44  
 Committee on Precision Cameras, American Society of Photogrammetry, 1938-39  
 U. S. Forest Service, 1936-45  
 Mark Hurd Mapping Company, 1947  
 Kargl Aerial Surveys, Inc., 1947  
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 Bureau of Reclamation, 1940-43  
 Air Corps, 1920-39, 1946 (3 files)  
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 Crampton, aerial photographs, 1928-29  
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 Multiplex equipment, Fairchild Aerial Surveys, Inc., correspondence, 1937-47  
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Stereoscopes, 1937-40  
Geological Survey Multiplex Aero Project apparatus, an inventory, 1938  
Multiplex correspondence, 1945-47  
Pendleton multiplex correspondence, 1936-44 (4 files)  
Aerial Mapping of Puerto Rico, 1940

## Appendix 22

### National Mapping Division - Special Topographic Map Series, 1865, 1886-1983 (entry 342)

\* Indicates maps that appear on a staff-compiled item list but were not in the file when this inventory was compiled; oversized items are filed separately. The date indicates the year in which the edition of the maps was printed. The year usually appears in the title block. Dates taken from information shown elsewhere on the map are preceded by a "ca." for circa.

Title	Place	Scale	Date
Abrams Mountain and Vicinity	Colorado	1:12,000	ca. 1929
Acadia National Park and Vicinity	Maine	1:24,000	ca. 1935
Acadia National Park and Vicinity	Maine	1:24,000	1956
Acadia National Park and Vicinity	Maine	1:31,680	1942
Acadia National Park and Vicinity	Maine	1:31,680	1952
Acadia National Park and Vicinity	Maine	1:50,000	1971
Acadia National Park and Vicinity	Maine	1:62,500	1931
Acadia National Park and Vicinity	Maine	1:62,500	1971
Ajo Mining District	Arizona	1:6,000	ca. 1931
Ajo Mining District	Arizona	1:12,000	ca. 1931
*Alamo National Forest	New Mexico	1:24,000	1914
Alto Pass and Vicinity	Illinois	1:2,500,000	ca. 1937
Amargosa Region	Nevada-California	1:250,000	1906
*Antietam Battlefield	Maryland	not given	1904
Appalachian Region	East Coast	1:2,500,000	1965
Arthurdale Farm Project (Sheet 2 of 2)	West Virginia	1:24,000	ca. 1934
Aspen Special Map	Colorado	1:9,600	1898
Aspen and Vicinity	Colorado	1:9,600	1939
Austin Area, Reese River Mining District	Nevada	1:4,800	ca. 1937
Badlands National Monument and Vicinity	South Dakota	1:62,500	1960
Badlands National Park	South Dakota	1:50,000	1981
Bagdad Mining District	Arizona	1:48,000	n.d.
Bakersfield	California	1:62,500	1906
Baltimore County and Baltimore City	Maryland	1:62,500	1916
Bandelier National Monument	New Mexico	1:24,000	ca. 1937
Bandelier National Monument and Vicinity [oversized]	New Mexico	1:24,000	1953
Bandelier National Monument and Vicinity (shaded relief) [oversized]	New Mexico	1:24,000	1960
Banner Hill	California	1:14,400	1893
Banner Hill	California	1:14,400	1903
*Barnes Bridge	Texas	1:31,680	1910
Berners Bay	Alaska	1:62,500	1908
Big Bar and Vicinity	California	1:250,000	1915
Big Bethel Water Development	Virginia	1:20,000	ca. 1919
Bingham Mining Camp	Utah	1:20,000	1901
Bingham Mining Camp	Utah	1:20,000	1917
Bingham Mining Camp	Utah	1:20,000	1942
Bisbee	Arizona	1:12,000	1902
Bisbee	Arizona	1:12,000	1906
Bisbee and Vicinity	Arizona	1:12,000	1948

Black Canyon of the Gunnison National Monument	Colorado	1:24,000	ca. 1934
Black Canyon of the Gunnison National Monument	Colorado	1:24,000	1950
Bonanza and Vicinity	Colorado	1:12,000	1920
Breckenridge	Colorado	1:24,000	1910
Bridge Canyon	Arizona	1:62,500	1900
Bright Angel	Arizona	1:48,000	1903
Bryce Canyon National Park (North Third)	Utah	1:24,000	ca. 1932
Bryce Canyon National Park (Middle Third)	Utah	1:24,000	ca. 1932
Bryce Canyon National Park (South Third)	Utah	1:24,000	ca. 1932
Bryce Canyon National Park	Utah	1:31,680	1939
Bryce Canyon National Park	Utah	1:31,680	1947
Bryce Canyon National Park	Utah	1:31,680	1957
Bull Valley District	Utah	1:48,000	1938
Bullfrog	Nevada	1:24,000	1906
Bullfrog	Nevada	1:24,000	1932
Butte	Montana	1:15,000	1896
Butte	Montana	1:15,000	1904
Butte	Montana	1:15,000	1926
Calumet	Michigan	1:62,500	1911
Camp A.A. Humphreys	Virginia	1:125,000	1918
Camp A.A. Humphreys and Vicinity	Virginia	1:20,000	ca. 1920
Camp Bragg	North Carolina	1:10,000	1919
Camp Carson and Vicinity	Colorado	1:50,000	ca. 1946
Camp Custer	Michigan	1:62,500	1918
Camp Devens and Vicinity (Groton Sheet)	Massachusetts	1:62,500	1915
Camp Devens and Vicinity (Marlboro Sheet)	Massachusetts	1:62,500	1917
Camp Devens and Vicinity	Massachusetts	1:62,500	1919
Camp Dix	New Jersey	1:62,500	1918
Camp Dodge	Iowa	1:62,500	1918
Camp Gordon and Vicinity	Georgia	1:125,000	1917
*Camp Gordon and Vicinity	Georgia	1:125,000	1918
Camp Gordon and Vicinity	Georgia	1:125,000	1919
Camp Grant	Illinois	1:62,500	1918
Camp Grant and Vicinity	Illinois	1:20,000	1925
Camp Hancock	Georgia	1:10,000	ca. 1918
Camp Henry Knox	Kentucky	1:10,000	1920
*Camp Jackson	South Carolina	1:10,000	ca. 1918
Camp Lee (North Sheet)	Virginia	1:62,500	1917
Camp Lee (South Sheet)	Virginia	1:62,500	1917
Camp Lee	Virginia	1:62,500	1918
Camp MacArthur	Texas	1:125,000	1918
Camp McClellan	Alabama	1:125,000	1918
Camp Meade	Maryland	1:62,500	1918
Camp Mills	New York	1:62,500	1918
Camp Albert L. Mills and Vicinity	New York	1:62,500	1912
Camp Pike	Arkansas	1:125,000	1910
Camp Pike	Arkansas	1:125,000	1918
Camp Sherman	Ohio	1:62,500	1917
Camp Sherman	Ohio	1:62,500	1918
Camp Taylor and Vicinity	Kentucky	1:62,500	1912
Camp Taylor and Vicinity	Kentucky	1:62,500	1918
Camp Travis	Texas	1:62,500	1904
Camp Upton	New York	1:62,500	1918
Canyon de Chelly	Arizona	1:250,000	ca. 1921

Canyon de Chelly National Monument	Arizona	1:48,000	ca. 1938
Canyonlands National Park and Vicinity [oversized]	Utah	1:62,500	1968
Caribbean National Forest	Puerto Rico	1:63,360	1908
Carlsbad Caverns National Park	New Mexico	1:24,000	ca. 1934
Cartersville	Georgia	1:62,500	1906
Cedar Breaks National Monument	Utah	1:12,000	ca. 1936
Cedar Breaks National Monument	Utah	1:15,840	1936
Cedar Breaks National Monument	Utah	1:15,840	1941
Central City	Colorado	1:12,000	1906
Central City	Colorado	1:12,000	1949
Central Owens Valley	California	1:125,000	1939
Central Owens Valley	California	1:125,000	1950
Central Valley (delta area)	California	1:250,000	1958
Central Valley (north area)	California	1:250,000	1958
Central Valley (south area)	California	1:250,000	1958
Chancellorsville and Salem Church Battlefields	Virginia	1:24,000	ca. 1932
Chapel Hill	North Carolina	1:31,680	1947
Charlottesville and Vicinity	Virginia	1:31,680	1935
Chattanooga Mining Area (Alta Basin and Vicinity)	Colorado	1:12,000	ca. 1936
Chattanooga Mining Area (Animas Forks Vicinity)	Colorado	1:12,000	1942
Chickamauga and Chattanooga National Military Park (Chickamauga Battlefield)	Georgia	1:9,600	ca. 1934
Chisos Mountains	Texas	1:125,000	1923
Cliffside Structure Area	Texas	1:24,000	1929
Coeur d'Alene District	Idaho-Montana	1:62,500	1901
Coeur d'Alene District	Idaho-Montana	1:62,500	1916
Coeur d'Alene District	Idaho-Montana	1:62,500	1939
Colonial National Historical Park	Virginia	1:25,000	1981
Colorado National Monument	Colorado	1:24,000	1962
Colorado National Monument	Colorado	1:31,680	1942
Colorado National Monument	Colorado	1:31,680	1948
Colorado National Monument (shaded relief)	Colorado	1:31,680	1948
Comstock Lode District	Nevada	1:24,000	ca. 1935
Cottonwood	Utah	1:25,000	1949
Crater Lake National Park	Oregon	1:62,500	ca. 1896
Crater Lake National Park	Oregon	1:62,500	1903
Crater Lake National Park	Oregon	1:62,500	1925
Crater Lake National Park	Oregon	1:62,500	1931
Crater Lake National Park Extension	Oregon	1:48,000	ca. 1933
Crater Lake National Park (panoramic view)	Oregon	1:62,500	n.d.
Crater Lake National Park and Vicinity	Oregon	1:62,500	1933
Crater Lake National Park and Vicinity	Oregon	1:62,500	1946
Crater Lake National Park and Vicinity	Oregon	1:62,500	1956
Craters of the Moon National Monument	Idaho	1:24,000	1983
Craters of the Moon National Monument	Idaho	1:31,680	ca. 1930
Craters of the Moon National Monument	Idaho	1:31,680	1933
Craters of the Moon National Monument	Idaho	1:31,680	1947
Craters of the Moon National Monument	Idaho	1:31,680	1957
*Craters of the Moon National Monument	Idaho	1:31,680	1960
Creede and Vicinity	Colorado	1:24,000	1910
*Creede and Vicinity	Colorado	1:24,000	1912
*Cripple Creek	Colorado	1:25,000	1895
*Cripple Creek	Colorado	1:25,000	1925
*Culebra and Adjacent Islands	Puerto Rico	1:30,000	1938

*Custer Battlefield	Montana	1:5,280	1908
Dahlonga District	Georgia	1:36,000	1907
*Dahlonga District	Georgia	1:36,000	1945
Dairy and Livestock Experiment Farm	Tennessee	1:2,400	ca. 1929
Death Valley National Monument and Vicinity	California-Nevada	1:250,000	1977
Denver	Colorado	1:125,000	1892
Denver	Colorado	1:125,000	1906
Denver	Colorado	1:125,000	1932
Denver Mountain Area (shaded relief)	Colorado	1:190,080	1948
Denver Mountain Area	Colorado	1:190,080	1950
Denver Mountain Parks	Colorado	1:62,500	1924
Denver Mountain Parks	Colorado	1:62,500	1939
Devils Tower National Monument	Wyoming	1:4,800	ca. 1933
Devils Tower National Monument	Wyoming	1:4,800	1949
Devils Tower National Monument	Wyoming	1:4,800	1950
Diamond Lake	Oregon	1:96,000	ca. 1914
Dinosaur National Monument [oversized]	Utah-Colorado	1:62,500	1945
Dinosaur National Monument [oversized]	Utah-Colorado	1:62,500	1950
Dinosaur National Monument	Utah-Colorado	1:62,500	1966
Dry Creek Area	Idaho	1:24,000	1948
Ducktown	Tennessee-Georgia- North Carolina	1:36,000	1909
Ducktown	Tennessee-Georgia- North Carolina	1:36,000	1942
Elk Basin	Wyoming-Montana	1:15,840	1945
Elk Hills Naval Reserve No. 1	California	1:24,000	ca. 1927
Elkhorn	Montana	1:31,250	ca. 1899
Ely	Nevada	1:30,000	1907
Ely	Nevada	1:30,000	1910
Ely	Nevada	1:30,000	1916
Encampment	Wyoming-Colorado	1:90,000	1903
Encampment	Wyoming-Colorado	1:90,000	1926
Encampment	Wyoming-Colorado	1:90,000	1949
Eureka Mining District	Nevada	1:24,000	1931
Fairbanks	Alaska	1:62,500	1908
Flathead Lake Project (north half)	Montana	1:12,000	1929
Flathead Lake Project (south half)	Montana	1:12,000	1929
Fort Bayard	New Mexico	1:12,000	1910
Fort Douglas	Utah	1:10,000	ca. 1925
Fort Hall Indian Reservation	Idaho	1:192,000	ca. 1913
Fort Humphreys and Vicinity	Virginia	1:20,000	1923
Fort Knox and Vicinity	Kentucky	1:62,500	n.d.
Fort Logan H. Roots	Arkansas	1:125,000	1910
Fort Missoula Military Reservation	Montana	1:4,800	ca. 1908
Fort Oglethorpe	Georgia	1:125,000	1918
Fort Omaha Special Balloon Field	Nebraska	1:10,000	ca. 1918
Fort Omaha Balloon Field (northeast quarter)	Nebraska	1:20,000	ca. 1918
Fort Omaha Balloon Field (northeast quarter)	Nebraska	1:20,000	1919
Fort Omaha Balloon Field (northwest quarter)	Nebraska	1:20,000	ca. 1918
Fort Omaha Balloon Field (northwest quarter)	Nebraska	1:20,000	1918
Fort Omaha Balloon Field (southeast quarter)	Nebraska	1:20,000	ca. 1918
Fort Omaha Balloon Field (southeast quarter)	Nebraska	1:20,000	1919
Fort Omaha Balloon Field (southwest quarter)	Nebraska	1:20,000	ca. 1918
Fort Omaha Balloon Field (southwest quarter)	Nebraska	1:20,000	1918

Fort Riley (north half)	Kansas	1:20,000	ca. 1927
Fort Riley (south half)	Kansas	1:20,000	ca. 1927
Franklin Battlefield, 1864	Tennessee	1:10,560	n.d.
Franklin D. Roosevelt National Historic Site	New York	1:960	1946
Franklin Furnace	New Jersey	1:14,400	1899
Franklin Furnace	New Jersey	1:14,400	1910
Fredericksburg and Vicinity	Virginia	1:24,000	ca. 1931
Fredericksburg Battlefield [oversized]	Virginia	1:24,000	ca. 1934
Fredericksburg-Spotsylvania Battlefield National Monument	Virginia	1:24,000	ca. 1934
Frisco	Utah	1:62,500	1906
Frisco	Utah	1:62,500	1911
Genesee	California	1:31,680	1893
Gettysburg Battlefield and Vicinity	Pennsylvania-Maryland	1:62,500	1913
Gettysburg and Vicinity [oversized]	Pennsylvania	1:62,500	ca. 1929
Gilmore Mining District	Idaho	1:48,000	ca. 1931
Glacier National Park	Montana	1:125,000	1911
Glacier National Park	Montana	1:125,000	1914
Glacier National Park	Montana	1:125,000	1927
Glacier National Park	Montana	1:125,000	1932
Glacier National Park	Montana	1:125,000	1948
Glacier National Park - Life Zones	Montana	1:125,000	n.d.
Glacier National Park (panoramic view)	Montana	1:187,500	n.d.
Glen Canyon National Recreation Area	Utah-Arizona	1:250,000	1967
Globe	Arizona	1:12,000	1902
Gogebic Iron Range (sheet 1)	Wisconsin	1:24,000	ca. 1921
Gogebic Iron Range (sheets 2 & 3)	Wisconsin	1:24,000	ca. 1921
Gold Hill Mining Area	Colorado	1:12,000	ca. 1938
Goldfield	Nevada	1:24,000	1906
Goldfield	Nevada	1:24,000	1909
Goldfield	Nevada	1:24,000	1952
Grand Canyon National Monument	Arizona	1:48,000	ca. 1936
Grand Canyon National Monument	Arizona	1:48,000	1944
Grand Canyon National Monument	Arizona	1:48,000	1961
Grand Canyon National Park (west half) [oversized]	Arizona	1:48,000	1927
Grand Canyon National Park (east half) [oversized]	Arizona	1:48,000	1927
Grand Canyon National Park (west half) [oversized]	Arizona	1:48,000	1939
Grand Canyon National Park (east half) [oversized]	Arizona	1:48,000	1939
Grand Canyon National Park (west half) [oversized]	Arizona	1:48,000	1948
Grand Canyon National Park (east half) [oversized]	Arizona	1:48,000	1948
Grand Canyon National Park (west half) [oversized]	Arizona	1:48,000	1961
Grand Canyon National Park (east half)[oversized]	Arizona	1:48,000	1960
Grand Canyon National Park (east half)	Arizona	1:48,000	1960
Grand Central	Alaska	1:62,500	1906
Grand Coulee (sheet 1)	Washington	1:31,680	ca. 1930
Grand Coulee (sheet 2)	Washington	1:31,680	ca. 1930
Grand Coulee (sheet 3)	Washington	1:31,680	ca. 1930
Grand Coulee (sheet 4)	Washington	1:31,680	ca. 1930
*Grand Teton	Wyoming	1:25,000	1931
Grand Teton [oversized]	Wyoming	1:48,000	ca. 1935
Grand Teton [oversized]	Wyoming	1:62,500	1948
Grand Teton	Wyoming	1:62,500	1951
Grand Teton [oversized]	Wyoming	1:62,500	1958
Grand Teton (shaded relief) [oversized]	Wyoming	1:62,500	1958

Grand Teton [oversized]	Wyoming	1:62,500	1968
Grand Teton National Park	Wyoming	1:62,500	1948
Grand Teton National Park	Wyoming	1:62,500	1951
*Grand Teton National Park	Wyoming	1:62,500	1968
Grand Teton National Park (shaded relief)	Wyoming	1:62,500	1968
Grand Teton National Park	Wyoming	1:125,000	1931
Grass Valley	California	1:14,400	1901
Great Plains (Northern)	North Central		
	United States-Canada	1:2,000,000	1926
Great Sand Dunes National Monument	Colorado	1:24,000	ca. 1937
*Great Sand Dunes National Monument	Colorado	1:24,000	1938
Great Smoky Mountains National Park Proposed (23 sheets)	North Carolina-Tennessee	1:24,000	1928-31
Great Smoky Mountains National Park	North Carolina-Tennessee	1:24,000	1930
Great Smoky Mountains National Park (west half)	North Carolina-Tennessee	1:62,500	1931
Great Smoky Mountains National Park (east half)	North Carolina-Tennessee	1:62,500	1931
Great Smoky Mountains National Park (west half)	North Carolina-Tennessee	1:62,500	1934
Great Smoky Mountains National Park (east half)	North Carolina-Tennessee	1:62,500	1934
Great Smoky Mountains National Park (west half)	North Carolina-Tennessee	1:62,500	1947
Great Smoky Mountains National Park (east half)	North Carolina-Tennessee	1:62,500	1947
Great Smoky Mountains National Park (west half)	North Carolina-Tennessee	1:62,500	1958
Great Smoky Mountains National Park (east half)	North Carolina-Tennessee	1:62,500	1958
Great Smoky Mountains National Park and Vicinity	North Carolina-Tennessee	1:125,000	1949
Great Smoky Mountains National Park and Vicinity (shaded relief)	North Carolina-Tennessee	1:125,000	1949
Great Smoky Mountains National Park and Vicinity (shaded relief)	North Carolina-Tennessee	1:125,000	1950
Great Smoky Mountains National Park and Vicinity (shaded relief)	North Carolina-Tennessee	1:125,000	1972
Grimes Pass and Vicinity	Idaho	1:24,000	ca. 1933
Grinnell Glacier	Montana	1:4,800	1953
Guilford Court House Battlefield and National Military Park	North Carolina	1:1,200	ca. 1934
Hampton Roads and Vicinity	Virginia	1:24,000	1919
Helena	Montana	1:62,500	1899
Herbert Domain (Tennessee State Coal Land)	Tennessee	1:24,000	1911
*Hinsdale	Montana	1:62,500	1904
*Hot Springs and Vicinity	Arkansas	1:62,500	1911
Idaho Springs	Colorado	1:12,000	1906
Idaho Springs	Colorado	1:12,000	1946
Idaho-Washington Boundary Line	Idaho-Washington	1 in. = 1.5 mi.	ca. 1908
Idaho-Washington Boundary Line [oversized]	Idaho-Washington	1:62,500	1911
Independence Pass and Vicinity	Colorado	1:48,000	1932
Iron Mountain and Vicinity	California	1:20,000	ca. 1904
Ironton and Vicinity	Colorado	1:12,000	ca. 1930
Iron Springs	Utah	1:62,000	1906
Isle Royale (sheet 1) [oversized]	Michigan	1:31,680	ca. 1931
Isle Royale (sheet 2) [oversized]	Michigan	1:31,680	ca. 1931
Isle Royale National Park [oversized]	Michigan	1:62,500	1957
*Jasper County (mines)	Missouri	1:15,840	ca. 1919
Jasper County (mines)	Missouri	1:15,840	ca. 1922
Joplin District	Missouri-Kansas	1:62,500	1906
Kellogg and Vicinity	Idaho	1:24,000	ca. 1937

Kelly Field and Camp Travis	Texas	1:62,500	1918
*Kern River Oil Field (north sheet)	California	1:12,000	1906
Kern River Oil Field (north sheet)	California	1:12,000	1915
Kern River Oil Field (south sheet)	California	1:12,000	1915
King Hill Area	Idaho	1:24,000	1948
Kirkland	New Mexico	1:96,000	ca. 1929
Kittitas Drainage District (north)	Washington	1:12,000	1941
Kittitas Drainage District (south sheet 1)	Washington	1:12,000	1941
Kittitas Drainage District (south sheet 2)	Washington	1:12,000	1941
Kootenai River (sheets 3-9)	Idaho	1:12,000	ca. 1928
Kramer Borate District	California	1:24,000	ca. 1932
La Barge	Wyoming	1:96,000	1936
Lake County (portion of)	Tennessee	1:48,000	ca. 1928
Lake Okeechobee	Florida	1:63,360	ca. 1913
Langley Field	Virginia	1:62,500	1918
Lassen Peak	California	1:250,000	1886
Lassen Volcanic National Park	California	1:48,000	ca. 1926
Lassen Volcanic National Park	California	1:48,000	1926
Lassen Volcanic National Park	California	1:48,000	1929
Lassen Volcanic National Park	California	1:48,000	1931
Lassen Volcanic National Park	California	1:48,000	1939
Lassen Volcanic National Park	California	1:48,000	1949
Lassen Volcanic National Park	California	1:62,500	1957
Lassen Volcanic National Park and Vicinity (shaded relief)	California	1:62,500	1957
Leadville	Colorado	1:9,600	1910
Leadville Mining District [oversized]	Colorado	1:9,600	1913
Leadville Mining District	Colorado	1:9,600	1913
Leadville No. 4	Colorado	1:48,000	ca. 1934
Leadville and Vicinity	Colorado	1:62,500	n.d.
Leonardville (south half)	Kansas	1:20,000	ca. 1928
Lewisburg Prison, proposed site	Pennsylvania	1:1,200	1930
Lewisburg Prison, proposed reservation	Pennsylvania	1:4,800	1930
Lincoln National Forest	New Mexico	1:250,000	1948
Little Eightmile Mining District	Idaho	1:48,000	1931
Lonesome	Montana	1:62,500	1906
Magdalena District	New Mexico	1:12,000	1912
Magdalena District	New Mexico	1:12,000	1932
Magdalena District	New Mexico	1:12,000	1948
Mammoth Cave National Park	Kentucky	1:31,680	1930
Mammoth Cave National Park (proposed)	Kentucky	1:31,680	1933
Manhattan (north half)	Kansas	1:20,000	1928
Manhattan (south half)	Kansas	1:20,000	1928
Manhattan and Vicinity	Nevada	1:24,000	1916
Manitou	Colorado	1:48,000	1921
Manitou	Colorado	1:48,000	1936
Marquette	Michigan	1:24,000	ca. 1905
Marysville	Montana	1:31,250	1901
Marysville	Montana	1:31,250	1925
*Marysville Buttes and Vicinity	California	1:62,500	n.d.
Menominee	Michigan	1:62,500	1901
Mesa Verde National Park	Colorado	1:31,250	1915
Mesa Verde National Park	Colorado	1:31,250	1928
Mesa Verde National Park	Colorado	1:31,250	1936

Mesa Verde National Park	Colorado	1:31,250	1954
*Mesa Verde National Park (panoramic)	Colorado	1:31,250	n.d.
Mesa Verde National Park	Colorado	1:45,000	n.d.
Mexican Springs Area	New Mexico	1:24,000	1934
Miami Copper Belt	Arizona	1:12,000	1912
Miami Copper Belt	Arizona	1:12,000	1948
Mississippi River Valley (below Dubuque, Iowa)	Iowa to Louisiana	1:1,000,000	1927
Mohave City	Nevada	1:96,000	ca. 1926
Mono Lake and Vicinity	California	1:125,000	1939
Mono Lake and Vicinity	California	1:125,000	1950
Moon Mountain	Arizona	1:48,000	ca. 1927
Morristown National Historical Park	New Jersey	1:9,600	1934
Mount Baker	Washington	1:250,000	1947
Mount Hood and Vicinity	Oregon-Washington	1:125,000	1929
Mount Hood and Vicinity	Oregon-Washington	1:125,000	1948
Mount McKinley	Alaska	1:250,000	1952
Mount McKinley	Alaska	1:250,000	1972
Mount Rainier	Washington	1:62,500	1913
Mount Rainier	Washington	1:62,500	1915
Mount Rainier	Washington	1:62,500	1923
Mount Rainier	Washington	1:62,500	1934
*Mount Rainier	Washington	1:62,500	1938
Mount Rainier	Washington	1:62,500	1947
Mount Rainier	Washington	1:62,500	1955
Mount Washington and Vicinity	New Hampshire-Maine	1:62,500	1896
Mullen and Vicinity	Idaho	1:24,000	1942
Mullen and Vicinity	Idaho	1:24,000	1943
National Bison Range	Montana	1:24,000	1929
National Bison Range	Montana	1:31,680	1932
National Bison Range	Montana	1:31,680	1949
Naval Petroleum Reserve No. 1	California	1:31,680	1930
Naval Petroleum Reserve No. 1	California	1:31,680	1952
Nevada City	California	1:14,400	1893
New Jersey Coast (4 sheets)	New Jersey	1:62,500	1890
New Mexico, South Eastern	New Mexico	1:190,080	1936
New Mexico, South Eastern	New Mexico	1:190,080	1937
New Mexico, South Eastern	New Mexico	1:253,440	1953
Niagara Falls	New York	1:62,500	1921
Niagara Gorge	New York-Canada	1:12,000	1930
Niagara River and Vicinity	New York-Canada	1:62,500	1911
Niagara River and Vicinity	New York-Canada	1:62,500	1932
Nisqually Glacier	Washington	1:9,600	ca. 1946
Nisqually Glacier	Washington	1:10,000	1976
Nisqually Glacier	Washington	1:12,000	1955
Nisqually Glacier	Washington	1:12,000	1959
Nisqually Glacier	Washington	1:12,000	1961
Oahu (Island)	Hawaii	1:62,500	1917
Oatman District	Arizona	1:24,000	ca. 1917
Ogema	Wisconsin	1:48,000	1944
Oil Center	California	1:12,000	1906
Oil Center (South Sheet)	California	1:12,000	1906
Old Dominion	Arizona	1:12,000	1917
Old Dominion	Arizona	1:12,000	1948
Olympic National Park and Vicinity	Washington	1:125,000	1957

*Omaha and Vicinity	Nebraska-Iowa	1:62,500	1898
Ouray Mining District	Colorado	1:12,000	1930
Owens Lake and Vicinity	California	1:125,000	1939
Owens Lake and Vicinity	California	1:125,000	1951
Palisades Interstate Park (sheet 1)	New York	1:12,000	1928
Palisades Interstate Park (sheet 1) [oversized]	New York	1:12,000	1928
Palisades Interstate Park (sheet 2)	New York	1:12,000	1928
Palisades Interstate Park (sheet 2) [oversized]	New York	1:12,000	1928
Palisades Interstate Park (sheet 3)	New York	1:12,000	1928
Palisades Interstate Park (sheet 3) [oversized]	New York	1:12,000	1928
Park City	Utah	1:25,000	1903
Park City	Utah	1:25,000	1927
Parker Dam Area	California	1:62,500	1950
Petrified Forest National Monument	Arizona	1:48,000	ca. 1934
Petrified Forest National Monument (north part)	Arizona	1:48,000	ca. 1934
Petrified Forest National Monument	Arizona	1:50,000	1981
Petrified Forest National Monument	Arizona	1:62,500	1939
Picture Gorge	Oregon	1:48,000	ca. 1925
Pikes Peak and Vicinity	Colorado	1:62,500	1956
*Platinum and Vicinity	Alaska	1:62,500	1937
Platoro Mining Area	Colorado	1:12,000	ca. 1936
Platt National Park	Oklahoma	1:6,000	1909
Plattsburg Training Camp	New York	3 in.=1 mi.	1917
Potash Mines Area	New Mexico	1:48,000	ca. 1935
Pottsville and Vicinity	Idaho-Montana	1:24,000	1939
Prescott	Arizona	1:63,360	1948
President Hoover's Camp	Virginia	1:12,000	1929
Quantico	Virginia	1:10,000	1933
Randolph (South Half)	Kansas	1:20,000	1928
Ray and Vicinity	Arizona	1:12,000	1912
Ray and Vicinity	Arizona	1:12,000	1919
Rico	Colorado	1:23,600	1899
Rico	Colorado	1:23,600	1916
Rico Mining District	Colorado	1:12,000	1930
Riggins	Idaho	1:96,000	1938
Rochester Mining District	Nevada	1:24,000	1916
Rochester Mining District	Nevada	1:24,000	1940
Rock Run and Vicinity	Alabama-Georgia	1:24,000	ca. 1941
Rocky Mountain National Park	Colorado	1:62,500	1961
Rocky Mountain National Park	Colorado	1:125,000	1931
Rocky Mountain National Park	Colorado	1:125,000	1937
Rocky Mountain National Park	Colorado	1:125,000	1951
Rocky Mountain National Park (panoramic)	Colorado	1:125,000	n.d.
Rural Retreat	Virginia	1:48,000	1931
Sacramento Valley	California	1:250,000	1911
Sacramento Valley	California	1:250,000	1913
Saint Maries and Clearwater Rivers Region	Idaho	1:125,000	1920
Salt Lake City and Vicinity	Utah	1:24,000	ca. 1934
Salton Sea and Vicinity	California	1:62,500	1928
Salton Sea and Vicinity	California	1:62,500	1944
Salton Sink	California	1:500,000	1921
Salton Sink	California	1:500,000	1947
San Antonio (Kelly Fields and Camp Travis)	Texas	1:62,500	1918
San Juan Mountains	Colorado	1:200,000	ca. 1923

Santa Rita	New Mexico	1:24,000	1909
Santa Rita	New Mexico	1:24,000	1937
Santa Rita	New Mexico	1:24,000	1946
Scotts Bluff National Monument	Nebraska	1:15,840	1939
Scotts Bluff National Monument	Nebraska	1:15,840	1944
Seattle (land classification)	Washington	1:125,000	1900
Sequoia National Park (administrative map)	California	1 in. = 1 mi.	n.d.
Sequoia and General Grant National Parks	California	1:125,000	1909
Sequoia and General Grant National Parks	California	1:125,000	1910
Sequoia and General Grant National Parks	California	1:125,000	1930
Sequoia and General Grant National Parks	California	1:125,000	1938
Sequoia and Kings Canyon National Parks	California	1:125,000	1953
Sequoia and Kings Canyon National Parks	California	1:125,000	1956
*Sequoia and Kings Canyon National Parks	California	1:125,000	1958
Sequoia and Kings Canyon National Parks and Vicinity (shaded relief)	California	1:125,000	1958
Seven Devils Mining District	Idaho-Oregon	1:48,000	1920
Shasta Valley (sheets 1-16)	California	1:24,000	1922
Shenandoah National Park (23 sheets, proposed)	Virginia	1:24,000	ca. 1927
Shenandoah National Park (north half, proposed)	Virginia	1:62,500	1933
Shenandoah National Park (south half, proposed)	Virginia	1:62,500	1933
*Shenandoah National Park (north half, proposed)	Virginia	1:62,500	1934
*Shenandoah National Park (south half, proposed)	Virginia	1:62,500	1934
Shenandoah National Park (north half)	Virginia	1:62,500	ca. 1930
Shenandoah National Park (south half)	Virginia	1:62,500	ca. 1930
Shenandoah National Park	Virginia	1:72,000	1933
Shenandoah National Park (proposed)	Virginia	1:125,000	1926
Shiloh National Military Park	Tennessee	1:9,600	1934
Silver Plume	Colorado	1:12,000	1906
Silver Plume	Colorado	1:12,000	1948
Silverton and Vicinity	Colorado	1:12,000	ca. 1931
Smelterville and Vicinity	Idaho	1:24,000	1942
Snowmass Mountain and Vicinity	Colorado	1:31,680	ca. 1930
Snowmass Mountain and Vicinity	Colorado	1:31,680	1950
Southern California	California	1:250,000	1907
Southern California #1	California	1:250,000	1912
Southern California #1	California	1:250,000	1921
Southern California #1	California	1:250,000	1948
Southern California #2	California	1:250,000	1924
Southern California #2	California	1:250,000	1948
Southern California #3	California	1:250,000	1931
Southern California #3	California	1:250,000	1948
Sperry Glacier	Montana	1:4,800	1953
Sperry Glacier	Montana	1:6,000	1960
Spring City Mining District	Missouri	1:24,000	ca. 1916
Sugarloaf-Saint Kevin Mining Districts	Colorado	1:24,000	ca. 1930
Summitville Mining Area	Colorado	1:12,000	ca. 1936
Superior Coal District	Wyoming	1:24,000	1943
Tacoma (land classification)	Washington	1:125,000	1900
Taos and Vicinity	New Mexico	1:125,000	1944
Taylorsville	California	1:31,680	1893
Taylorsville	California	1:31,680	1940
Telluride Mining District	Colorado	1:12,000	1929
Tennmile District	Colorado	1:31,680	1914

Tenmile Mining District (north half)	Colorado	1:12,000	1942
Tenmile Mining District (south half)	Colorado	1:12,000	1942
Tennessee River Basin	Tennessee	1:1,000,000	1920
Tennessee River Basin and adjoining areas (mineral resources)	Tennessee	1:500,000	1933
Terlingua	Texas	1:50,000	1902
Terlingua	Texas	1:50,000	1929
Terlingua	Texas	1:125,000	1904
Tintic Mining	Utah	1:9,600	1898
Tintic Mining District	Utah	1:9,600	1913
Tintic Mining (locator map)	Utah	1:250,000	1902
Tinton and Vicinity	South Dakota-Wyoming		1944
Tobias Peak (east half)	California	1:96,000	ca. 1936
Tombstone	Arizona	1:24,000	1906
Tombstone	Arizona	1:24,000	1942
Tombstone and Vicinity	Arizona	1:6,000	1948
Tombstone Mining Map	Arizona	1:6,000	1908
Tongass National Forest	Alaska	1 in. = 12 mi.	1946
Tongass National Forest	Alaska	1 in. = 12 mi.	1951
Tonopah	Nevada	1:12,000	1910
Tuxekan	Alaska	1:62,500	1948
Tyrone	New Mexico	1:24,000	1922
Tyrone	New Mexico	1:24,000	1948
Valdez and Vicinity	Alaska	1:62,500	1930
Vanderbilt Mansion National Historic Site	New York	1:3,600	1946
Vicksburg National Military Park	Mississippi	1:9,600	1935
Virginia Mining District	New Mexico	1:24,000	1931
Wallace and Vicinity	Idaho	1:24,000	ca. 1937
Ward-Sunset Mining Area	Colorado	1:24,000	ca. 1937
White City, Kansas (north half)	Kansas	1:20,000	ca. 1927
White City, Kansas (south half)	Kansas	1:20,000	ca. 1927
Willamette Valley (8 sheets)	Oregon	1:31,680	ca. 1909
Willow Creek	Wyoming	1:24,000	1945
Wind Cave National Park	South Dakota	1:24,000	ca. 1934
Wind Cave National Park and Vicinity	South Dakota	1:24,000	1957
Winnebago	Wisconsin	1:62,500	1911
Woodbine (north half)	Kansas	1:20,000	ca. 1927
Woodbine (south half)	Kansas	1:20,000	ca. 1927
Yellowstone National Park	Wyoming-Montana-Idaho	1:125,000	1930
Yellowstone National Park	Wyoming-Montana-Idaho	1:125,000	1954
Yellowstone National Park	Wyoming-Montana-Idaho	1:125,000	1961
Yellowstone National Park (administrative map)	Wyoming-Montana-Idaho	1:125,000	1912
Yellowstone National Park (shaded relief)	Wyoming-Montana-Idaho	1:125,000	1961
Yellowstone National Park, Cañon Sheet	Wyoming	1:125,000	1886
Yellowstone National Park, Canyon Sheet	Wyoming	1:125,000	1901
Yellowstone National Park, Canyon Sheet	Wyoming	1:125,000	1907
Yellowstone National Park, Gallatin Sheet	Wyoming	1:125,000	1886
Yellowstone National Park, Gallatin Sheet	Wyoming	1:125,000	1901
Yellowstone National Park, Gallatin Sheet	Wyoming	1:125,000	1908
Yellowstone National Park, Lake Sheet	Wyoming	1:125,000	1886
Yellowstone National Park, Lake Sheet	Wyoming	1:125,000	1901
Yellowstone National Park, Lake Sheet	Wyoming	1:125,000	1906
Yellowstone National Park, Shoshone Sheet	Wyoming	1:125,000	1886
Yellowstone National Park, Shoshone Sheet	Wyoming	1:125,000	1908

Yellowstone National Park (panoramic map)	Wyoming-Montana-Idaho	1:187,500	n.d.
Yerington	Nevada	1:24,000	1915
Yerington	Nevada	1:24,000	1951
Yorktown Battlefield (east sheet)	Virginia	1:4,800	1931
Yorktown Battlefield	Virginia	1:9,600	1931
Yosemite National Park (administrative map)	California	1:125,000	1909
Yosemite National Park (administrative map)	California	1:125,000	1910
Yosemite National Park	California	1:125,000	1932
Yosemite National Park	California	1:125,000	1948
Yosemite National Park	California	1:125,000	1953
Yosemite National Park and Vicinity	California	1:125,000	1958
Yosemite National Park (panoramic map)	California	1:187,500	n.d.
Yosemite Valley	California	1:24,000	1922
Yosemite Valley	California	1:24,000	1949
Yosemite Valley (shaded relief)	California	1:24,000	1949
Yosemite Valley	California	1:24,000	1958
Yosemite Valley (shaded relief)	California	1:24,000	1958
Yosemite Valley [drawn by J. T. G.]	California	---	1865
Zion (canyon section)	Utah	1:31,680	1957
*Zion (canyon section)	Utah	1:31,680	1964
Zion National Monument (northern part)	Utah	1:31,680	1946

## Appendix 23

### National Mapping Division - Plans and Coordination Branch - Administrative Files, 1942-60 (entry 405)

Miscellaneous memorandums to Atlantic Region and Central Region Engineers, 1950-53  
Miscellaneous memorandums to Rocky Mountain Region Engineer, XA and XB Projects, and Pacific Region Engineer, 1948-53  
Aerial photography for regions, 1949-53  
Allotments and expenditures for regions, 1950-53  
Bureau of Reclamation mapping for regions, 1949-53  
Equipment for regions, 1948-53  
Helicopter contracts, Rocky Mountain and Pacific Regions, 1948-57 (2 files)  
Miscellaneous requisitions for regions and Washington Office, 1953-57  
Office space for regions and Washington Office, 1949-57 (2 files)  
Personnel for regions, 1949-56  
Personnel, Plans and Coordination Branch, 1946-55 (2 files)  
Personnel, bulletins, pamphlets and memorandums, 1952-59  
Production control for regions, 1951-53  
Projects done for the Army for regions, 1949-53  
Cooperation - Atlantic Region, Connecticut, Delaware, Washington D. C., Georgia, and Indiana, 1946-53  
Cooperation - Atlantic Region, Kentucky, 1948, 1950-53 (1 file and 1 bundle)  
Cooperation - Atlantic Region, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, and Ohio, 1945-53 (1 file and 1 booklet)  
Cooperation - Atlantic Region, Pennsylvania, Puerto Rico, South Carolina, Tennessee, Vermont, Virginia, Virgin Islands, 1946-53  
Cooperation - Central Region, Alabama, Arkansas, Florida, Kansas, Iowa, Illinois, Louisiana, Mississippi, 1946-53  
Cooperation - Central Region, Minnesota, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, Wisconsin, 1948-53 (1 file and 1 stapled report)  
Cooperation - Rocky Mountain Region, Colorado, Montana, New Mexico, Wyoming, Texas, 1949-53  
Cooperation - Rocky Mountain Region, Alaska, 1950-58 (3 files)  
Cooperation - Pacific Region, Utah, Washington, Hawaii, 1949-53  
Cooperation, Federal agencies - Atomic Energy Commission, US Air Force - Aeronautical Chart and Information Center, Forest Service, Department of Justice, US Navy, and Department of Agriculture, 1946-54  
Topographic Division, fiscal procedures, 1948-53  
Coast and Geodetic Survey, maps, 1947  
Cooperation - Interior Department, Office of the Secretary, and Office of Territories, 1948-54  
Cooperation - Interior Department, Bureau of Reclamation, National Park Service, Bureau of Mines, Bureau of Land Management, Bureau of Indian Affairs, 1945-54 (1 file, 1 booklet, and 1 unbound table)  
Cooperation, USGS - Conservation Division, Geologic Division, Publications Office, and Water Resources Division, 1946-53  
Cooperation - Interior Department, Centennial Celebration, 1949  
Management Improvement, Geological Survey, 1950-52  
Memorandums and letters from Topographic Branches and units to Branch of Accounts, Branch of Map Distribution, Field Equipment, Topographic Division, and Information Officer; and miscellaneous letters from Survey divisions, 1946-53  
Equipment - Office Equipment, elevation meter, helicopters, and stereo and photogrammetric equipment, 1946-55 (1 file and 2 booklets)  
Reports and statistics, annual report for the Secretary, 1949-56  
Topographic Division, articles and papers on topographic mapping, 1944-53 (1 file and 1 bundle)  
Topographic Division, Security regulations, 1947-54  
Topographic Division, technical memorandums of instructions, ca. 1942-49  
Map distribution - sales and discontinuation, 1953-57

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Memorandums to heads of bureaus and offices, 1947-50  
Memorandums to heads of bureaus and offices, 1950-53 (2 files)  
Memorandums for the record, 1948-53  
Memorandums for Surface Water field offices, 1948-52  
Miscellaneous Service Division, 1949-53  
Orders - Departmental, 1946-53 (2 files)  
Orders - Executive, 1924-52  
Secretary of the Interior, 1949-53  
Solicitor, 1952  
Accounts Division, 1948-53 (4 files)  
Acquisition of lands, or interests in lands by the Geological Survey, 1941-49  
Administrative Circulars, 1951-53 (2 files)  
Administrative Digest, 1952-53  
Administrative Officer, 1952-53  
Alaskan Investigations, 1948-53 (2 files)  
Alaska Territory, 1948-53  
Branch of Service and Supply, 1950-53  
Budget Officer, 1921-53 (2 files)  
Chief - Business and Clerical Section, 1948-52  
Chief Counsel, Geological Survey, 1949-53 (2 files)  
Chief, General Services Section, 1952-53  
Chief, Surface Water Branch, 1952-53 (2 files)  
Chief, Water Resources Division, 1949-55 (2 files)  
Columbus Equipment Development Laboratory, 1949-52 (5 files)  
Columbus Equipment Laboratory, 1951-53 (3 files)  
Conservation Branch, 1949-52  
Correspondence and Record Section, 1949-51  
Director, 1949-52 (8 files)  
Division of Distribution, 1922-52  
Division Procedure, 1931-50 (2 files)  
Esso Standard Oil Company, 1951-54  
Executive Officer, 1949-53 (4 files)  
Field Equipment Division, 1949  
Fiscal Management, 1948-53  
Fiscal Officer, Chief, 1948-52  
Geologic Branch (Chief Geologist), 1949-53

Gulf Oil Corporation, 1951-54  
Information, Office of, 1949-53  
Library, 1949-52  
Map Information, 1941-53  
Map Information, 1949-51  
Map Reproduction, 1930-53  
Orders - Survey, 1915-53 (2 files)  
Paley Commission Report, 1952-53 (2 files)  
Personnel Announcements, 1950-53  
Personnel Branch (Employment and Record Section), 1949-53  
Personnel Officer, 1949-53 (3 files)  
Personnel Unit, 1949-52  
Photographic Laboratory, 1949  
Placement Assistant, 1951-53  
President's Materials Policy Commission, 1950-51  
Program for the Pacific Northwest, 1950 (bound booklet)  
Program Control, 1951-53  
Property Maintenance Section, 1949-53  
Publication Section, 1949-53  
Purchasing Officer, 1949-53  
Records Management Officer, 1952  
Section of Texts, 1919-53  
Staff Geologist, 1949-53  
Staff Officer, 1948-51  
Staff Scientist (Pacific Northwest), 1950-53 (2 files)  
Standard Oil Company, 1936-52  
Topographic Division, Chief of, 1949-53  
Water Resources Policy Commission, 1950-52 (4 files)

## Appendix 27

### Water Resources Division - Correspondence Concerning District Engineers and Other Division Employees, 1908-57 (entry 433)

The position titles shown reflect the highest promotion or last duty station of the employee. Many employees, especially district engineers, served in other positions and at other duty stations.

Adams, Robert W. (Engineer in Charge of Ground Water Investigations in Mississippi), 1941-46  
Andrews, Grace C. (Secretary), 1955-57  
Armentrout, Warren R. (Engineering Aid), 1941-46  
Armstrong, Wallace (Hydraulic Engineer), 1931-51  
Aronow, Saul (Geologist), 1947-54  
Austin, Verle L. (Hydraulic Engineer), 1933-53  
Bach, W. Kenneth (Hydraulic Engineer), 1938-54  
Baldwin, G. Clyde. (District Engineer, Idaho Falls, Idaho), 1911-1928 (2 files)  
Ballard, Howard A. (Engineering Aid), 1941-53  
Barber, DeLoss H. (District Engineer, Montgomery, Ala.), 1924-53 (4 files)  
Barksdale, Henry C. (Assistant Hydraulic Engineer, Trenton, N.J.; later New Jersey Department of Conservation and Development), 1923-29  
Barrows, Edgar L. (Hydraulic Engineer), 1931-55  
Bartlett, Ronald B., 1957 [1 page]  
Batchelder, Charles L. (District Engineer, St. Paul, Minn.), 1918-39 (2 files)  
Baumgartner, John A. (Assistant Engineer), 1923-30  
Beardin, Hubert W. (Engineering Aid), 1942-49  
Beckman, Henry C. (District Engineer, Rolla, Mo.), 1916-44 (7 files)  
Beeler, Robert H. (Engineering Aid), 1949-56  
Bell, Francis M. (District Engineer, Atlanta, Ga. and Chattanooga, Tenn.), 1928-38, 1941-45 (3 files)  
Berkenbosch, John C., (Hydraulic Engineer), 1934-55  
Bigwood, Burke L. (District Engineer, Hartford, Conn.), 1919-44 (3 files)  
Bishop, Ernest W. (Geologist), 1949-55  
Bolon, Harry C. (Associate Hydraulic Engineer), 1929-40  
Booz, Gordon D. (Hydraulic Engineer), 1952-57  
Boyer, Marion C. (Hydraulic Engineer), 1928-54  
Brandvold, Glen E. (Engineering Aid), 1950-55  
Brashears, Maurice L. (Geologist), 1936-52  
Bratschi, William G. (Hydraulic Engineer), 1933-57  
Briggs, Revoe C. (Hydraulic Engineer), 1924-47, 1949-56  
Broadhurst, William L. (Geologist), 1942-53  
Buchanan, Agnes D. (Administrative Assistant), 1922-55  
Burchard, Edwin D. (District Engineer, Asheville, N.C.), 1919-49 (6 files)  
Burnham, Willis L. (Geologist), 1952-57  
Burt, Edward Mead (Geologist), 1951-55  
Butler, Stanley S. (Hydraulic Engineer), 1940-55  
Canfield, George H. (District Engineer, Portland, Oreg.), 1915-49 (5 files and loose material)  
Cardwell, William D. E. (Geologist), 1950-56  
Carson, Max H. (District Engineer, Honolulu, Hawaii), 1917-45 (4 files)  
Christopherson, Fritz C. (District Engineer, Madison, Wis.), 1923-54 (4 files)  
Corbett, Don M. (District Engineer, Indianapolis, Ind.), 1923-44 (3 files)  
Covert, Clermont C. (District Engineer, Albany, N.Y.), 1911-26 (3 files)  
Crandall, Lynn (District Engineer, Idaho Falls, Idaho) 1916-44 (2 files)  
Crawford, Lawrence C. (District Engineer, Iowa City, Iowa), 1940-44 (3 files)

Currier, Wayne A. (Engineering Aid, Albany District), 1942-45  
 Cutter, Russell C. (Engineer Aid, Boston, Mass.), 1945-46  
 Dale, Bertha K. (Engineer Draftsman), 1943-46  
 Daelberg, Oskar T. (Hydraulic Engineer, Portland, Oreg.), 1942-46  
 Davies, David, L., Jr. (Hydraulic Engineer, Jackson, Miss.), 1939-46  
 Davis, J. D. (Assistant Engineer, Oklahoma City, Okla.), 1944-47  
 Davis, Thenton L. (Hydrographic Engineer, Atlanta, Ga.), 1943-46  
 Dickinson, William E. (District Engineer, Tucson, Ariz.; Hydraulic Engineer, Los Angeles, Calif.), 1916-40  
 (5 files and loose material)  
 Dirzulaitis, Joseph J., (Dual Appointment: District Engineer, University, Va., and Chief Engineer,  
 State Conservation and Development Commission, Va.) (8 files)  
 Ebert, Fred C. (Hydrolic Engineer, Los Angeles, Calif.), 1914-43 (2 files)  
 Eisenlohr, William S., Jr. (Junior Engineer, Virginia District), 1928-29  
 Ellsworth, Clarence E. (District Engineer, Austin, Tex.), 1908-53 (9 files)  
 Emerson, Charles J. (Associate Engineer, San Francisco, Calif.), 1916-46  
 Erskine, Harlan M. (District Engineer, Charleston, W. Va.; Engineer in Charge, Pittsburgh, Pa.), 1940-44  
 Esterly, Nellie L. (Administrative Assistant), 1931-55  
 Ferguson, George E. (District Engineer, Ocala, Fla.), 1928-44 (2 files)  
 Fiedler, Albert G. (Associate Engineer, Roswell, N. Mex.; Engineer, Minneapolis, Minn.), 1918-29 (2 files)  
 Follansbee, Robert, (District Engineer, Denver, Colo.), 1909-49 (11 files)  
 Gardiner, John H. (District Engineer, Fort Smith, Ark. and Tucson, Ariz.), 1921-40 (6 files)  
 Godwin, Albert B. (Junior Engineer, Austin, Tex.), 1929  
 Gray, Glenn A. (District Engineer, Austin, Tex.), 1913-18  
 Grosbach, Homer E. (District Engineer, Indianapolis, Ind., and Chicago, Ill.), 1920-43 (6 files)  
 Grover, Nathan C. (Chief Hydraulic Engineer, USGS), 1913-39 (2 files)  
 Hagensen, Philip (Junior Hydraulic Engineer). 1941-48  
 Hall, Warren E. (District Engineer, Asheville, N.C.), 1910-36 (2 files)  
 Harrington, Arthur W. (District Engineer, Albany, N.Y.), 1917-44 (8 files)  
 Henshaw, Fred F. (District Engineer, Portland, Oreg), 1911-29 (3 files)  
 Hickerson, Homer C. (Junior Engineer, Louisville, Ky.), 1943-45  
 Hill, Henry F. (Assistant to the Chief Hydraulic Engineer, Boston, Mass.), 1922-46 (2 files)  
 Hoff, Joseph C. (Junior Clerk, St. Paul, Minn.), 1939-42  
 Horton, Albert H. (District Engineer, Newport, Ky., and Middle Atlantic States District, College Park, Md.;  
 Chief, Division of Power Resources), 1911-45 (2 files)  
 Hoyt, John C. (Chief, Division of Surface Waters; Hydraulic Engineer), 1911-44 (3 files)  
 Hoyt, William G. (District Engineer, Upper Mississippi District, Madison, Wis.), 1911-32, 1934-50  
 (3 files and loose material)  
 Johnson, Berkeley (District Engineer, Lansing, Mich. and Santa Fe, N. Mex.), 1921-44 (7 files)  
 Jones, Edward E. (Associate Hydraulic Engineer, Tacoma, Wash.), 1919-31 (3 files)  
 Kaplan, Albert Bernard (Hydraulic Engineer), 1945-46  
 Karably, Louis S. (Geologist), 1946  
 Kasel, Rudolph G. (District Engineer, Iowa City, Iowa; Chief, Division of Surface Water), 1923-47 (7 files)  
 Kasner, Charlotte F. (Scientific Aid), 1943-46  
 Kessler, William (District Engineer, Charleston, W. Va.), 1929-41 (6 files)  
 King, W. R. (District Engineer, Chattanooga, Tenn.), 1915-35 (5 files)  
 Kinnison, Harvey B. (District Engineer, Boston, Mass.), 1918-44 (8 files)  
 Kremsky, Meyer (Hydraulic Engineer), 1937-46  
 Kunesch, Joseph F. (Port au Prince, Haiti; and District Engineer, Honolulu, Hawaii), 1916-48 (4 files)  
 Lamb, William A. (District Engineer, Helena, Mont.), 1911-38 (5 files and loose material)  
 Lamson, John L. (Associate Engineer), 1920-33  
 LaRue, Eugene C. (Hydraulic Engineer, Salt Lake City, Utah; and Portland, Oreg.), 1912-48 (10 files);  
 correspondence, notes, and draft reports of work for the Land Classification Board and other investigations,  
 1915-23 (7 bundles)  
 Lee, Lasley (District Engineer, Columbus, Ohio), 1921-38 (6 files and loose material)

Lewis, Douglas D. (Junior Engineer, Tucson, Ariz.; Acting District Engineer, Lincoln, Nebr.), 1929-33, 1941-44 (2 files)

Mangan, John W. (District Engineer, Harrisburg, Pa.), 1923-44 (7 files)

McCashin, Clarence E. (District Engineer, Montgomery, Ala.; and Chattanooga, Tenn.), 1918-41 (7 files)

McGlashan, Harry D. (District Engineer, San Francisco, Calif.), 1911-44 (10 files); correspondence, memorandums, and telegrams regarding Fowler's plan (Forest Service) on investigating water-power resources, 1921 (1 file)

Meinzer, Oscar E. (Geologist in Charge, Division of Ground Water), 1915-40 (3 files)

Morgan, J. Holloway (District Engineer, Chicago, Ill.; District Engineer, Urbana, Ill.), 1916-43 (7 files)

Murphy, Edward C. (Hydraulic Engineer, Napa, Calif.), 1914-35 (3 files)

Newell, Thomas R. (District Engineer, Boise, Idaho), 1917-44 (6 files)

Osborne, Cecil J. (Junior Engineer, Denver, Colo.), 1938-46

Parker, Glenn L. (District Engineer, Tacoma, Wash.; Chief, Water Resources Branch), 1913-47 (11 files and loose materials)

Parker, Gordon E. (Junior Engineer, Indianapolis, Ind.), 1941

Parker, Philip S. (Junior Engineer, Denver, Colo.) 1923

Parkinson, Clyde P. (Assistant Engineer, Albany, N.Y.), 1936-47

Parsons, Charles C. (PWA Forman, Tacoma, Wash.), 1934-35

Parsons, Edwin D. (Junior Chemist, Roswell, N. Mex.), 1939-42

Parsons, Jacqueline F. (Clerk-Stenographer, Stafford, Ariz.), 1944-45

Parsons, Walter, J., JR. (Junior Engineer, Madison, Wis.; Helena, Mont.), 1926-30

Pashby, Gene E. (Engineering Aid, Pierre, S. Dak.), 1948

Patch, Mrs. Winifred Graham (Clerk-Stenographer, Tucson, Ariz.; Washington, D.C.), 1936-39

Patterson, Viola Ann (Temporary Stenographer, Columbus, Ohio), 1930

Paul, Duane Myron (Junior Hydraulic Engineer, Harrisburg, Pa.), 1934-39

Paul, Edith (Clerk), 1918-19

Paulsen, Carl G. (District Engineer, Boise, Idaho; Assistant Chief Hydraulic Engineer), 1918-46 (7 files)

Paulsen, Wesley W. (Junior Geologist, Long Beach, Calif.), 1942-46

Pearson, William H. (Laborer, Washington, D. C.), 1944-45

Pease, Russell S. (Junior Engineer, Boston, Mass.), 1938-39

Pellen, George M. (Assistant Clerk-Stenographer, Washington, D.C.), 1938-43

Pentz, Mervin A. (Assistant Geologist), 1933-36

Pepper, Jack W. (Hydraulic Engineer, Ocala, Fla.), 1939-46

Perrin, Charlotte (Steno, Indianapolis, Ind.), 1930-34

Perrin, William W. (Junior Engineer, Columbus, Ohio), 1922-24

Perry, Grace V. (Regarding an interview), 1931

Perrey, Joseph I. (Assistant Engineer, Columbus, Ohio), 1927-29

Peters, Harry S. (Junior Engineer, Topeka, Kans.), 1934-35

Peters, Ronald H. (PWA Application), 1936

Peterson, Dean F. (Junior Hydraulic Engineer, Salt Lake City, Utah), 1938-39

Petmecky, Mrs. Margaret K. (Clerk-Stenographer, Austin, Tex.), 1940-45

Petretic, George J. (Junior Chemist), 1936, 1942

Peyton, Jean (Clerk-Stenographer, Charlottesville, Va.), 1943-44

Peyton, Wythe M., Jr. (Junior Engineer, Asheville, N.C.), 1934-35

Pfarnier, Chester W. (Junior Hydraulic Engineer, Albany, N.Y.), 1936

Phelps, Leonard C. (Junior Engineering Aide, Long Beach, Calif.), 1941-42

Philbin, Patrick (Skilled Laborer, Columbia River at the International Boundary), 1938-39

Phillips, E. L., 1931

Phillips, Jean F. (Junior Engineering Aid, Portland, Oreg.), 1943-44

Phillips, Kenneth N. (Associate Engineer, Portland, Oreg.), 1920-30

Pickens, William G. (Scientific Aid, Albuquerque, N. Mex.), 1948

Pickop, Edwin M. (Junior Engineer, Hawaiian District), 1920-22

Pierce, Charles H. (District Engineer, Boston, Mass.), 1917-31 (2 files)

Pierce, William G. (Junior Hydraulic Engineer), 1933-34

Pierce, William M. (Junior Hydraulic Engineer, Rolla, Mo.), 1939-43

Pihlstrom, C. H. Dale (Junior Hydraulic Engineer, St. Paul, Minn.), 1942-45  
 Pinkney, Harold W. (Junior Engineer, Fort Smith, Ark.) 1934-36  
 Piper, Arthur M. (Assistant Geologist, Pittsburgh, Pa.), 1925-27  
 Pipkin, James D. (Junior Engineer, Fort Smith, Ark.), 1939-46  
 Platt, William T. (Chemist), 1946  
 Plesce, Anthony J. (Junior Clerk-Stenographer), 1942  
 Plunkett, John (Claim against U.S. for loss of horse), 1931  
 Plusnin, Basil A. (Junior Hydraulic Engineer, Albany, N.Y.), 1942-44  
 Podgorski, Edward J. (Geologist, Albany, N.Y.), 1945-46  
 Pogue, Richard W., 1930-31  
 Pole, M. Charlotte (Clerk-Stenographer, Baton Rouge, La.), 1942-44  
 Pool, Doris (Clerk-Stenographer, University, Ala.), 1942-43  
 Poor, Ernest R. (Re: Appointment), 1946  
 Porter, E. A. (District Engineer, Salt Lake City, Utah), 1911-15  
 Porteous, Lewis G. (Re: Appointment), 1941  
 Porter, Charles W. (Engineer Aid, Tucson, Ariz.), 1945  
 Porter, Livingston, Jr., (Geologist, Santa Barbara, Calif.), 1942-46  
 Poss, Robert J. ( Re: Appointment), 1930  
 Post, Arthur L. (Hydraulic Engineer, Rolla, Mo.), 1939-45  
 Post, Edward (Junior Engineer, Helena, Mont.), 1930-43  
 Potter, Frances (Temp, Clerk-Stenographer, Albuquerque, N. Mex.), 1937  
 Powell, Morrel A. (Junior Classifier), 1917-45  
 Powell, Ralph W. (Assistant Hydraulic Engineer, Columbus, Ohio), 1937-38  
 Powers, Howard A. (Geologist, Maui, Hawaii), 1932-34  
 Pratt, Mrs. Genevieve (Assistant Clerk-Stenographer, Salt Lake City, Utah), 1927  
 Pratt, Joseph Hyde (Engineer Consultant), 1938-41  
 Pratt, Oliver Laurens (Junior Engineer, Austin, Tex.), 1939-40  
 Price, Herman S. (Assistant Engineer, Helena, Mont.), 1919-21  
 Price, Jerome L. (Junior Engineering Aide, Baton Rouge, La.), 1942-43  
 Price, W. L. (Foreman, Ocala, Fla.), 1933-34  
 Prince, A. H. (Observer), 1930-36  
 Pringle, Thomas B. (Junior Engineer, South Charleston, W. Va.), 1933-34  
 Prior, Charles H. (Junior Engineer, Chattanooga, Tenn.), 1928  
 Pritchett, Henry C. (Assistant Engineer, Tucson, Ariz.), 1923-30  
 Prock, George D. (Junior Engineer, Austin, Tex.), 1941-42  
 Puffer, Charles G. (Field Assistant, Ariz.), 1918  
 Purton, Astley B. (District Engineer, Salt Lake City, Utah), 1917-42 (7 files)  
 Putz, Claire E. (Re Employment), 1928  
 Radack, Stanley B. (Geologist, Miami, Fla.), 1943-45  
 Radka, Lawrence E. (Re Appointment), 1936  
 Rae, Mrs. Esther D. (Clerk-Stenographer, Denver, Colo.), 1919-21  
 Ramsey, Mrs. Marie T. (Clerk-Stenographer, Rolla, Mo.), 1936-42  
 Randall, Richard V. (Engineering Aide, Williston, N. Dak.), 1946  
 Randolph, Burr H. (Hydraulic Engineer, Iowa City, Iowa), 1939-46  
 Randolph, Mrs. Nora A. (Junior Clerk, Roswell, N. Mex.), 1928  
 Rano, Filamena C. (Junior Clerk-Stenographer, St. Paul, Minn.), 1940-43  
 Rarey, Nellouise (Clerk-Stenographer, Washington, D.C.), 1935  
 Raspet, Rudolph (Recorder, Hawaii), 1938-39  
 Rasmussen, Nels R. (Engineering Aid, Lansing, Mich.), 1947-48  
 Rau, Paul W., Jr. (Re: Appointment), 1941  
 Rauworth, Elizabeth B. (Re Appointment), 1933  
 Ray, Mrs. June F. (Junior Clerk-Stenographer, Savannah, Ga.), 1937-39  
 Ray, Mrs. Marina B. (Junior Clerk-Stenographer, Columbia, S.C.), 1936-39  
 Read, Robert B. (Re Appointment) 1942

Reams, Sanford N. (Junior Engineer, Columbus, Ohio), 1934-35  
 Reed, Clarence R. (Junior Engineer, San Francisco, Calif.), 1928-29  
 Reed, Fred D. (Hydraulic Engineer, Denver, Colo.), 1936-39  
 Reed, Jim (Re: Appointment), 1931  
 Rehm, Wilda (Clerk-Stenographer, Tacoma, Wash.), 1943  
 Reichman, Mrs. Stella (Temporary Clerk, Salt Lake City, Utah), 1927  
 Reeves, Max D. (Junior Chemist), 1936-41  
 Reid, Harold Victor (Engineering Draftsman, Miami, Fla.), 1944  
 Reid, Margaret, A. (Junior Clerk-Stenographer, Albany, N.Y.), 1930  
 Reinhardt, Charles Orville (Re Appointment), 1939  
 Reinheimer, Herbert S. (Junior Engineering Aide, University, Miss.), 1941-42  
 Reker, Carl C. (Junior Geologist, Tallahassee, Fla.), 1942-46  
 Remington, Robert H. (Junior Engineer, Honolulu, Hawaii), 1920  
 Renick, B. Coleman (Assistant Geologist), 1923-27 (2 files)  
 Rice, Edward B. (District Engineer, Baton Rouge, La.), 1929-44  
 Rice, Roger C. (District Engineer, Tucson, Ariz.), 1916-23 (3 files)  
 Rupp, Vernon W. (Assistant Hydraulic Engineer, Asheville, N. C.), 1928-40 (2 files)  
 Saunders, John I. (District Engineer, Fort Smith, Ark.), 1924-44 (3 files)  
 Saville, Thorndike (Professor of Hydraulic and Sanitary Engineering; Dean, College of Engineering,  
 New York University; Chief Engineer, Department of Conservation and Development, Chapel Hill, N.C.),  
 1924-38 (3 files and loose material)  
 Schrader, Floyd F. (Junior Engineer, University, Va.), 1929-31  
 Schumacher, K. Fritz (Re: Appointment), 1929  
 Smith, G. E. P. (Professor of Irrigation Engineering, University of Arizona), 1917-29  
 Snowden, James R. (Engineering Aid, Rolla, Mo.), 1942-44  
 Soule, Stephen B. (District Engineer, Madison, Wis.), 1920-38 (4 files)  
 Speer, Paul R. (District Engineer, St. Paul Minn.), 1926-29, 1932-36, 1939-44 (5 files)  
 Spiegel, Jacob B. (District Engineer, Tokeka, Kansas), 1915-45 (8 files)  
 Stackpole, M. Reginald (District Engineer, Augusta, Maine), 1917-44 (3 files)  
 Stearns, Harold T. (Associate Geologist, and Senior Geologist, Honolulu, Hawaii), 1920-47, 1949  
 (5 files and loose material)  
 Sundstrom, Raymond W. (Re: Appointment), 1928  
 Tiencken, Wilfred P. (Junior Engineer, Indianapolis, Ind.), 1934-37  
 Thompson, David G. (Senior Geologist, Trenton, N. J.), 1917-27, 1931-43 (5 files)  
 Thomson, Medford T. (District Engineer, Atlanta, Ga.), 1939-44 (2 files)  
 Toth, Albert S. (Deferment File), 1943-44  
 Tuttle, Alonzo H. (District Engineer, Helena, Mont.), 1918-35, 1938-44 (4 files)  
 Tuttle, Trigg (Associate Engineer, Austin, Tex.), 1922-30  
 Veatch, Fred M. (Associate Engineer, Boise, Idaho; Hydraulic Engineer, St. Louis, Mo.; District Engineer,  
 Louisville, Ky. and Tacoma, Wash.), 1923-32, 1934-45 (8 files and loose material)  
 Wallace, Donald S. (District Engineer, Ocala, Fla., and Charlottesville, Va.), 1921-44 (6 files)  
 Waring, Gerald A. (Associate Engineer, Calif.), 1915-19, 1943 (1 file)  
 Wayne [formerly Wasylikiw], Myron A. (Hydraulic Engineer, Charleston, W. Va.), 1940-47 (2 files)  
 Wells, Joseph V. B. (District Engineer, Louisville, Ky.), 1929-37, 1940-44 (3 files and loose material)  
 White, Walter N. (Associate Hydraulic Engineer, Millford, Utah), 1925-27  
 Wiazack, Mrs. Gladys Moses (Clerk-Stenographer, Middle Atlantic District), 1935-39  
 Widman, Mrs. Elizabeth A. (Engineering Aide, Lansing, Mich.), 1942-46  
 Wittala, Sulo W. (Junior Engineer, Indianapolis, Ind.), 1940-46 (2 files)  
 Wiggins, Wilford C. (Junior Engineer), 1923-26  
 Wilcomb, Carroll F. (Assistant Hydraulic Engineer, Logan, Utah), 1945-46  
 Wilder, David S. (Junior Hydraulic Engineer, Rolla, Mo.), 1938-41  
 Wildman, John P. (Junior Engineer, Asheville, N.C.), 1930  
 Wile, Ruth H. (Clerk-Stenographer, College Park, Md.), 1944-45  
 Wiles, Ernest G. (Re: Appointment), 1934

Wiley, Harry R. (Junior Engineer, South Charleston, W. Va.), 1934-35  
 Wilkinson, Marvin A. (Engineering Aide, Rolla, Mo.), 1946  
 Williams, Adrain H. (Junior Engineer, Tucson, Ariz.), 1927-29  
 Williams, David C. (Junior Hydraulic Engineer, Columbus, Ohio), 1938-43  
 Williams, H. T. (Re: Appointment), 1930  
 Williams, H. V. (Forman), 1934  
 Williams, M. Dean (Re: Appointment), 1943  
 Williams, W. Robert (Junior Engineer), 1938-46  
 Williams, Evelyn Caroline (Engineering Aide, Chattanooga, Tenn.), 1943-44  
 Williams, Gordon R. (Associate Hydraulic Engineer), 1930-41  
 Williams, Kenneth T. (Junior Chemist), 1929-33  
 Willis, Ernest L, Jr. (Junior Hydraulic Engineer, Austin, Tex.), 1938-41  
 Willman, Mrs. Lucy Mae (Junior Clerk, Asheville, N.C.), 1928-29  
 Wilson, Mrs. Edith C. (Junior Clerk-Stenographer, University, Miss.), 1940-42  
 Wilson, Mrs. Ruth (Clerk-Stenographer, Lawrence, Kans.), 1939-42  
 Wiltshire, Lucie M. (Copist), 1919-21  
 Wingate, Katherine A. (Junior Clerk-Stenographer), 1931-33  
 Winslow, Allen G. (Junior Hydraulic Engineer, Tucson, Ariz.), 1942  
 Withee, Warren (Hydraulic Engineer, Chattanooga, Tenn.), 1920-38 (2 files)  
 Witt, Philip A. (Junior Chemist, Austin, Tex.), 1942-43  
 Witte, Herbert Walter (Re: Appointment), 1938-39  
 Witter, Joan S. (Clerk-Stenographer, Washington, D.C.), 1933-34  
 Wolfe, Barbara A. (Junior Engineering Aid, Columbus, Ohio), 1943-44  
 Womersley, Mrs. Irene (Assistant Clerk-Stenographer, Portland, Oreg.), 1936-43  
 Wood, Auburn E. (Engineering Aide, Knoxville, Tenn.), 1943-44  
 Wood, Bertha (Junior Clerk-Stenographer, Charlottesville, Va.), 1942-43  
 Wood, Mrs. Martha Burns Kittle (Scientific Aid, Washington, D.C.), 1944  
 Woodworth, Rosemary (Junior Clerk-Stenographer, Urbana, Ill.), 1935-43  
 Woolley, Ralf R. (Senior Hydraulic Engineer, Salt Lake City, Utah), 1917-42 (10 files and loose material)  
 Woolrych, Edmund H. (Junior Engineer, St. Louis, Mo.), 1934-37  
 Worcester, Samuel A. (Junior Engineer), 1934-38  
 Workman, Effie T. (Sr. Clerk, Asheville, N.C.), 1920-45  
 Workman, Leroy Vernon (Re: Appointment), 1936  
 Woster, Howard C. (Junior Hydraulic Engineer, Tacoma, Wash.), 1929-38  
 Wyer, Samuel S. (Consulting Engineer, Columbus, Ohio), 1929  
 Yarborough, Robert W., Jr. (Junior Engineer, Austin, Tex.), 1933-37  
 Yarnell, D. L. (Senior Drainage Engineer, Department of Agriculture), 1930-33  
 Yearsley, Mrs. Elva H. (Clerk-Stenographer, Logan, Utah), 1943-45  
 Yeates, Phyllis (Clerk-Stenographer, Logan, Utah), 1945-46  
 Yeatman, Mrs. Elsie L. (Clerk-Stenographer, Denver, Colo.), 1929-30  
 York, James R. (Engineering Aide, Ocala, Fla.), 1945  
 Youngquist, C. Vernon (District Engineer, Columbus, Ohio), 1934-44 (3 files and loose material)  
 Zainey, Genevieve M. (Junior Clerk-Stenographer, Indianapolis, Ind.), 1942-43  
 Zander, Ruth (Clerk, Urbana, Ill.), 1934-35  
 Zaontz, Rita B. (Junior Stenographer, Columbus, Ohio), 1930  
 Zieno, Angelo (Junior Hydraulic Engineer, Albany, N.Y.), 1942

## Appendix 28

### Water Resources Division - Records Concerning Interstate River Compacts and Regional Projects, 1923-54 (entry 455)

Arkansas River Compact, 1946-53  
Belle Fourche River Compact, 1942-47  
Canadian River Compact, 1950-52  
Central Arizona, 1949-50  
Cheyenne River Compact, 1948-50  
Colorado River Authority, 1937-51  
Colorado River Basin, 1940-50  
Colorado River Compact, 1942-53  
Colorado River Forecast Committee, 1945-48  
Columbia River Basin, 1944-51  
Columbia River Compact, 1952-53  
Columbia River (unbound material), 1944-50  
Columbia Valley Administration, Legislation, 1949  
Costilla Creek Compact, 1946-47  
Crab Creek, 1941-42  
Davis Dam, 1950  
Gila River Basin, 1940-41  
International Columbia River Engineering Board, 1944-48  
Kansas River Basin, 1948-49  
Little Tallahatchie River Silt Project, 1938-40  
Mississippi River Commission, 1941-47  
Mississippi River Flood, 1927-28  
Mississippi River Power Company, 1923-33  
Missouri River Basin, 1945-53  
Missouri River Basin Compact, 1952-54  
North Platte River Investigation, 1945-48  
Ohio River Basin, 1945-50  
Ohio River Basin Laboratory, 1947  
Phelps Dodge Corporation (Gila River), 1942-48  
Potomac River Basin, 1945-50  
Red River Compact, 1950  
Republican River Compact, 1941-54  
Rio Grande Compact Commission, 1939-53  
Sabine River Compact, 1952-53  
Safford Valley Report, 1945-47  
St. Francis River Silt Project, 1938-40  
Sanke River Compact, 1949-51  
Upper Colorado River Basin Compact, 1944-53  
Ute Creek, 1948  
Wapato Project, 1936-42  
Western States, Flood Hazard of Snow Cover, Winter, 1948-49  
Wind River Basin, 1949-51  
Yadkin-Pee Dee River Basin, 1940  
Yellowstone River Compact, 1943-53

## Appendix 29

### Water Resources Division - Records of the Subcommittee on Hydrologic Data of the Federal Interagency River Basin Committee, 1947-48 (entry 491)

- Map 1 Saco, Androscoggin, Presumpscot, Kennebec, Machias, St. Croix, and St. John River Basins [envelope #3]
- Map 2 Housatonic, Thames, and Merrimac River Basins - Lake Champlain Drainage [envelope #3]
- Map 3 Hudson River Basin and St. Lawrence Drainage in New York [envelope #3]
- Map 4 Susquehanna and Delaware River Basins [envelope #3]
- Map 5 Potomac, Rappahannock, York, and James River Basins [envelope #4]
- Map 6 Chowan, Roanoke, Tar, Neuse, and Cape Fear River Basins [envelope #5]
- Map 7 Pee Dee, Santee, and Edisto River Basins [envelope #5]
- Map 8 Savannah, Ogeechee, and Altamaha River Basins [envelope #6]
- Map 9 Satilla, St. Marys, St. Johns, and Suwannee River Basins [envelope #6]
- Map 10 Southern Florida Drainage [envelope #6]
- Map 11 Apalachicola and Ochlockonee River Basins [envelope #6]
- Map 12 Choctawhatchee, Yellow, Escambia, and Alabama River Basins [envelope #6]
- Map 13 Tombigbee, Pascagoula, and Pearl River Basins [envelope #6]
- Map 14 Mississippi River (Natchez to the mouth), Calcasieu, Mermentau, and Vermillion River Basins [envelopes #6 & #7]
- Map 15 Mississippi River (Helena to Natchez), Yazoo, Big Black, and Ouachita River Basins [envelopes #6 & #7]
- Map 16 Mississippi River (Chester to Helena), St. Francis River Basin [envelope #6]
- Map 17 Ohio River (Madison to Uniontown), Wabash River Basin [envelopes #8 & #9]
- Map 18 Tennessee River Basin (below Hales Bar Dam), Cumberland and Green River Basins [envelopes #10 & #11]
- Map 19 Ohio River (Point Pleasant to Madison), Kanawha, Big Sandy, Licking, Kentucky, Scioto, and Miami River Basins [envelope #12]
- Map 20 Tennessee River Basin (above Hales Bar Dam) [envelopes #13 & #14]
- Map 21 Ohio River Basin (above Point Pleasant), and Lake Erie Drainage [envelope #15]
- Map 22 Great Lakes Drainage (in Michigan) and Maumee River Basin [envelope #16]
- Map 23 Great Lakes Drainage (in Michigan and Wisconsin) [envelope #17]
- Map 24 Mississippi River (Louisiana to Chester), Illinois, Kaskaskia and Meramac River Basins [envelopes #18 & #19]
- Map 25 Mississippi River (Fairmont to Louisiana), Cedar, Skunk, and Des Moines River Basins [envelope #20]
- Map 26 Mississippi River (Prairie Du Chien to Rock Island), Rock and Wapsipinicon River Basins and Lake Michigan Drainage [envelope #20]
- Map 27 Mississippi River Basin (St. Paul to Prairie Du Chien), Wisconsin, Root, Chippewa, and St. Croix River Basins [envelope #20]
- Map 28 Mississippi River Basin (above St. Paul) [envelope #20]
- Map 29 Lake Superior and Lake of the Woods Drainage (in Minnesota) [envelope #20]
- Map 30 Red River of the North [envelope #20]
- Map 31 Missouri River (Nebraska City to Herman), Osage, Gasconade, and Grand River Basins [envelopes #21 & #22]
- Map 32 Smoky Hill and Lower Republican River Basins [envelopes #21 & #22]
- Map 33 Upper Republican River Basin, North Platte River (Ft. Laramie to North Platte) and South Platte River (Sublette to North Platte) [envelopes #21 & #22]
- Map 34 North Platte River Basin (above Ft. Laramie) South Platte River Basin (above Sublette) [envelopes #21 & #22]
- Map 35 Platte River Basin (below North Platte), Missouri River (above Blair to Nebraska City) [envelopes #21 & #22]
- Map 36 Platte River (Niobrara to above Blair), James and Big Sioux River Basins [envelopes #21, #22 & #23]

Map 37 Missouri River (above Pierre to Niobrara), Niobrara and White River Basins [envelopes #21 & #22]

Map 38 Missouri River (Mobridge to above Pierre), Cheyenne and Owl River Basins [envelope #23]

Map 39 Missouri River (Williston to Mobridge), Grand, Cannonball, Heart and Little Missouri River Basins [envelope #23]

Map 40 Missouri River (Zortman to Williston), Milk and Musselshell River Basins [envelope #24]

Map 41 Missouri River Basin (above Zortman) [envelope #25]

Map 42 Lower Yellowstone River - Tongue and Powder River Basins [envelope #26]

Map 43 Upper Yellowstone River Basin [envelope #29]

Map 44 Arkansas River (Van Buren to Little Rock), White River Basin [envelope #27]

Map 45 Arkansas River (Tulsa to Van Buren), Grand, Verdigris and Lower Canadian River Basins [envelope #27]

Map 46 Arkansas River (Garden City to Tulsa), Middle Canadian, Lower Cimarron and Salt Fork River Basins [envelope #27]

Map 47 Arkansas River (Lamar to Garden City), Upper Cimarron and Upper Canadian River Basins [envelopes #28, #30 & #31]

Map 48 Rio Grande Basin (above Espanola) and Arkansas River Basin (above Lamar) [envelopes #28, #30 & #31]

Map 49 Red River (Denison to Grand Ecore), Little and Sulphur River Basins [envelopes #7 & #32]

Map 50 Red River Basin (above Denison) [envelope #31]

Map 51 Sabine, Naches and Trinity River Basin [envelopes #30 & #31]

Map 52 Lower Brazos, Lower Colorado, Guadalupe, San Antonio and Nueces River Basins [envelopes #30 & #31]

Map 53 Brozos River (South Bend to Washington), Little River Basin and Colorado River (Ballinger to Marble Falls), Llano and San Saba River Basin [envelopes #30 & #31]

Map 54 Brozos River Basin (above South Bend), Colorado River Basin (above Ballinger [envelopes #30 & #31]

Map 55 Rio Grande (below Eagle Pass) [envelope #31]

Map 56 Rio Grande (Fort Quitman to Eagle Pass) [envelope #31]

Map 57 Rio Grande (Espanola to Fort Quitman) Rio Puerco Basin [envelopes #30 & #31]

Map 58 Pecos River Basin (above Carsbad) [envelopes #30 & #31]

Map 59 Colorado River (below Boulder Dam) Williams River Basin [envelopes #31 & #33]

Map 60 Gila River Basin [envelope #33]

Map 61 Little Colorado and San Juan River Basins [envelopes #33, #34 & #35]

Map 62 Colorado River (Halls Crossing to Boulder Dam) Virgin River Basin [envelopes #33 & #36]

Map 63 Colorado River (above Halls Crossing), Gunnison, Delores and Fremont (or Dirty Devil) River Basin [envelopes #37 & #38]

Map 64 Green River Basin [envelopes #33 & #39]

Map 65 Great Salt Lake Basin [envelopes #33 & #40]

Map 66 Sevier River Basin [envelopes #33 & #41]

Map 67 Warner Lakes, Honey Lake, and Malheur Lake Drainage [envelopes #42, #43 & #44]

Map 68 Humbolt, Carson, and Truckee River Basins [envelopes #33 & #45]

Map 69 Walker River (near Schurz) [no envelope found]

Map 70 Salton Sea and Southern California Coastal Drainage [envelopes #33 & #48]

Map 70A Los Angeles, San Gabriel and Santa Ana River Basins [envelope #48]

Map 71 San Joaquin, Kern, Santa Clara, Santa Ynez, Santa Maris and Salinas River Basins [envelope #49]

Map 72 Sacramento, Eel and Russian River Basins [envelope #50]

Map 73 Klamath, Rogue, and Umpqua River Basins [envelope #51]

Map 74 Columbia River (below Umatilla), Willamette, Deschutes, John Day, Cowlitz, and Klickitat River Basins [envelope #52]

Map 75 Columbia River (Grand Coulee to Umatilla), Yakima, Chelan, and Okanogan River Basins [envelope #53]

Map 76 Columbia River (International Boundary to Grand Coulee), Pend Orielle, Spokane, and Lower Snake River Basins [envelope #54]

Map 77 [no envelope or map found]

Map 78 Snake River (King Hill to below the Salmon River), Grand Ronde, Malheur, Owyhee, Boise, Weisner, and Payette River Basins [envelope #55]

Map 79 Snake River Basin (above King Hill) and Salmon River Basin [envelope #56]

## Appendix 30

### Ground Water Branch - Administrative Correspondence Files, 1919-43 (entry 574)

#### *Ground Water Branch, 1919-39*

Abstracts  
Accounts, Division of  
Administrative Geologist  
Agriculture, Department of  
Air-Conditioning  
Alabama - Inquiries  
Alabama - Walter B. Jones, State Geologist  
Albright, Horace M. (United States Potash Company)  
American Association for the Advancement of Science  
American Association of Petroleum Geologists  
American Society of Civil Engineers  
American Association of Water Well Drillers  
American Water Works Association  
Annual Reports  
Andrews, David A.  
Arizona - Cooperation  
Arizona - Salt River Valley Water Users' Association  
Arizona - Inquiries  
Arkansas - Cooperation  
Arkansas - Inquiries  
Arkansas - Arkansas Geological Survey and Arkansas Agricultural Experiment Station  
Automobile Insurance  
A - Miscellaneous  
Babcock, Horace M.  
Bach, W. Kenneth  
Baker, Roger C.  
Barber, DeLoss H.  
Barksdale, Henry C.  
Bell, Francis M.  
Bennett, Robert R.  
Bigwood, Burke L.  
Blank, Horace R.  
Brashears, Maurice L., Jr.  
Bridges, Thomas W.  
Brown, Glen F.  
Brown, Russell H.  
Bryan, Kirk  
Burchard, Edwin D.  
Burleigh, Harry P.  
Byers, Alan C.  
B - Miscellaneous  
Cady, Richard C.  
California - geology and ground water hydrology of the Mokelumne area, by Arthur M. Piper, Hoyt S. Gale,  
Harold E. Thomas, and Thomas W. Robinson, status of  
California - East Bay Municipal Utility District  
California - Los Angeles and Orange Counties  
California - Mohave River Basin (David G. Thompson)

California - Mokelumne River  
 California - Santa Ana Investigation (David G. Thompson)  
 California Well Drillers Association  
 California - inquiries  
 Carson, Max H.  
 Cederstrom, Dagfin J.  
 Chicago, University of  
 Chief Clerk  
 Chief Geologist  
 Chief Hydraulic Engineer  
 Civil Works Administration  
 Colby, Bruce R.  
 Cole, Charles F.  
 Collins, William D.  
 Colorado Water Well Drillers Association  
 Colorado - Inquiries  
 Colvin, Robert H.  
 Commerce, Department of  
 Connecticut - Cooperation  
 Connecticut - Inquiries  
 Conover, Clyde S.  
 Conservation Branch - Herman Stabler  
 Cooper, Hilton H., Jr.  
 Cosmos Club  
 Crandall, Lynn  
 Creech, Mrs. Hulda M.  
 Crickmay, Geoffrey W.  
 Cross, William P.  
 Cumley, James C.  
 C - Miscellaneous  
 Deep-well meter  
 Dennis, P. Eldon  
 Detweiler, Abraham L.  
 Director  
 Dirzulaitis, Joseph J.  
 District of Columbia  
 District Engineers' Conference, 1938  
 Drainage Basin Projects:  
     Columbia Basin Irrigation Project  
     Delaware River Drainage Basin  
     Minnesota Drainage  
     Lower Mississippi "A" Basin - Ouachita River Sub-basin  
     Neosho-Verdigris Basins  
     Tennessee River Basin  
     St. Francis Basin  
 D - Miscellaneous  
 Ebert, Fred C.  
 Eckel, Edwin B.  
 Economic Geologists, Society of  
 Engineering News-Record  
 E - Miscellaneous  
 Federal Club  
 Federal Power Commission  
 Federal Works Agency

Ferris, John G.  
 Fiedler, Albert G.  
 Field Equipment, Division of  
 Fishel, Vinton C.  
 Florida  
 Florida Ship Canal  
 Florida, City of Pensacola  
 Florida - Cooperation and Florida State Geological Survey  
 Florida - Inquiries  
 Follansbee, Robert  
 Forrest, Kyle  
 Foster, Vellora M.  
 Frye, John C.  
 F - Miscellaneous  
 Gale, Hoyt S.  
 Gasoline purchases  
 Geological Congress, International  
 Geological Society of America  
 Geology, Journal of  
 George, William O.  
 Georgia  
 Georgia, Warm Springs  
 Georgia - Inquiries  
 Ground Water Estimates  
 Guam (Harold T. Stearns)  
 Guyton, William F.  
 G - Miscellaneous  
 Hale, William E.  
 Hall, George M.  
 Harrell, Marshall A.  
 Harrington, Arthur W.  
 Hartwell, Oliver W.  
 Hawaii  
 Hawaii - Cooperation  
 Hauser, Junius F.  
 Hewett, Donnel Foster  
 History of Science Society, The  
 Horton, Robert E.  
 Howell Drillers News  
 Hubbert, M. King, Prof (Columbia University)  
 Hydrologic Laboratory; Hydraulic Laboratory  
 H - Miscellaneous  
 Idaho - General  
 Idaho - Kootenai  
 Idaho - Snake River (Harold T. Stearns)  
 Idaho - Inquiries  
 Illinois  
 Illinois - East St. Louis Drainage District  
 Illinois State Geological Survey  
 Illinois Water Well Drillers Association  
 Illinois - Inquiries  
 Indian Affairs, Office of  
 Indiana  
 Indiana - Inquiries

Inquiries - Miscellaneous  
 Iowa  
 Iowa - Cooperation  
 Interviews  
 I - Miscellaneous  
 Jacob, Charles E.  
 Johnson, Berkeley  
 Johnson, Douglas W. (Columbia University)  
 Johnston, William D., Jr.  
 Justice, Department of  
 J - Miscellaneous  
 Kansas - Cooperation  
 Kansas - Geological Survey (Raymond C. Moore)  
 Kansas - Inquiries  
 Kinnison, Harvey B.  
 Klaer, Fred H., Jr.  
 Knechtel, Maxwell M.  
 K - Miscellaneous  
 Lamb, William A.  
 Lang, Joe W.  
 Lang, Webster B.  
 LaRocque, George A., Jr.  
 Lee, Frederick W.  
 Leggette, Ralph M.  
 Legislation  
 Leighton, Morris M. (Illinois Geological Survey Division)  
 Librarian  
 Lindgren, Waldemar  
 Livingston, Penn P.  
 Loeltz, Omar J.  
 Lohman, Stanley W.  
 Lonsdale, John T.  
 Louisiana - Cooperation  
 Louisiana - Inquiries  
 Lynch, Walter A.  
 L - Miscellaneous  
 McCashin, Clarence E.  
 McClelland, Carl A.  
 McDonald, Harris R.  
 McGlashan Harry D.  
 McGuinness, Charles L.  
 MacDonald, Gordon A.  
 Maher, John C.  
 Magan, John W.  
 Mailing List  
 Maine - Inquiries  
 Marlin, Elwin Lee  
 Maryland - Inquiries  
 Massachusetts - Inquiries  
 Meinzer, Oscar E.  
 Meinzer - Acknowledgments of paper on "History and Development of Ground-water Hydrology"  
 Merriam, Carroll F.  
 Michigan - Cooperation  
 Michigan - Inquiries

Mines, Bureau of  
 Minnesota Well Drillers Association  
 Minnesota - Inquiries  
 Mississippi - Cooperation  
 Mississippi Valley Committee  
 Mississippi - Inquiries  
 Missouri - Inquiries  
 Missouri Water Well Drillers Association  
 Monroe, Watson H.  
 Montana - Flathead Lake  
 Montana - Inquiries  
 Morgan, Arthur M.  
 Morrison, Roger B.  
 Murphy, Franklin M.  
 Murray, C. Richard  
 M - Miscellaneous  
 National Emergency Council  
 National Park Service  
 National Research Council  
 National Resources Committee  
 Navy Department  
 Nebraska Conservation and Survey Division  
 Nebraska Well Drilling Association  
 Nebraska, State of  
 Nebraska - Cooperation  
 Nebraska - Condra, G. E., State Geologist  
 Nebraska - Inquiries  
 Nevada Agricultural Experiment Station  
 Nevada - Inquiries  
 Newell, Thomas R.  
 New Hampshire State Planning and Development Commission  
 New Hampshire - Inquiries  
 New Jersey - Cooperation  
 New Jersey  
 New Jersey Water Well Drillers Association  
 New Jersey - Inquiries  
 New Mexico - Cooperation  
 New Mexico - Conchas Dam  
 New Mexico - Lea County  
 New Mexico - Mimbres Valley  
 New Mexico - Silver City  
 New Mexico - Roswell Artesian Basin  
 New Mexico - Inquiries  
 New York - Department of Water Supply, Gas, and Electricity  
 New York - Inquiries  
 New York - Joint Legislative Committee, Frederick J. Slater  
 New York - Long Island, Miscellaneous  
 New York - Monroe County Regional Planning Board  
 New York - Nassau County  
 New York - Village of Ossining  
 New York - Suffolk County  
 New York - Water Power and Control Commission  
 News Items - For Secretary's Office  
 Noble, Levi F.

North Carolina, Elizabeth City  
 North Carolina - Cooperation  
 North Carolina - Inquiries  
 North Dakota Geological Survey  
 North Dakota Well Drillers Association  
 North Dakota - Inquiries  
 Nye, S. Spenser  
 N - Miscellaneous  
 O - Miscellaneous  
 Parker, Glenn L.  
 Pecos River Joint Investigation  
 Pennsylvania - Cooperation  
 Pennsylvania - Department of Internal Affairs  
 Pennsylvania  
 Pennsylvania - Inquiries  
 Pentz, Mervin A.  
 Personnel [alphabetically]  
 Phi Beta Kappa  
 Pi Gamma Mu  
 Piper, Arthur M.  
 Pittman, Harry F.  
 Poland, Joseph F.  
 Post Office Department  
 Powers, Howard A.  
 Pratt, Joseph Hyde  
 Prince, A. H.  
 Publications  
 Public Works  
 O-P - Miscellaneous  
 P - Miscellaneous  
 Q - Miscellaneous  
 Reed, Edwin W.  
 Renick, Coleman B.  
 Resettlement Administration  
 Rio Grande Joint Investigation  
 Robinson H. H.  
 Robinson, Thomas W.  
 Rose, Nicholas A.  
 Q-R - Miscellaneous  
 R - Miscellaneous  
 Sayre, A. Nelson  
 Schaefer, Edward J.  
 Schoff, Stuart L.  
 Secretary's Memorandums and correspondence  
 Sigma Xi  
 Simpson, Howard E.  
 Smith, George E. P.  
 Soil Conservation Service  
 Soil Erosion Projects (Miscellaneous, Kansas, Missouri, North Carolina, Oklahoma, South Carolina, Texas,  
     Washington, Wisconsin)  
 Soil Erosion Projects  
 South Carolina - Inquiries  
 South Dakota - Inquiries  
 South Dakota - Fort Meade

South Dakota - Timber Lake  
 Standards, Bureau of  
 Stearns, Harold T.  
 Springfield, Victor T.  
 Subsistence Homesteads, Division of  
 Sundstrom, Raymond W.  
 S - Miscellaneous  
 Taylor, George C., Jr.  
 Taylor, George H.  
 Tennessee - Cooperation  
 Tennessee - Inquiries  
 Tennessee - Walter H. Pond, State Geologist  
 Tennessee - Miscellaneous  
 Texas - Inquiries  
 Theis, Charles V.  
 Thomas, Harold E.  
 Thompson, David G.  
 Tolman, Carl F. (Stanford University)  
 Topographic Branch  
 Treasury Department  
 Turner, Samuel F.  
 T - Miscellaneous  
 Utah State Engineer  
 Utah - Dam Sites  
 Utah - Nephi, Moroni, and Miscellaneous  
 Utah - Rehabilitation Board  
 Utah - Ogden  
 Utah - Salt Lake City  
 Utah - Salt Lake City Investigation  
 Utah - Inquiries  
 U - Miscellaneous  
 Vermont - Cooperation  
 Veterans Administration  
 Virgin Islands  
 Virginia - Cooperation  
 Virginia - Inquiries  
 V - Miscellaneous  
 Waite, Herbert A.  
 War Department  
 Waring, Gerald A. (Division of Grazing)  
 Warner, David C.  
 Warren, Moultrie A.  
 Washington Academy of Sciences  
 Washington - City of Tacoma  
 Washington - Inquiries  
 Water Resources Bulletin  
 Water Resources Committee  
 Water Works Engineering  
 Wells, Francis G.  
 Wenzel, Leland K.  
 Westendick, Frank C.  
 White, Walter N.  
 Wisconsin  
 Wisconsin - Inquiries

Wisconsin Well Drillers Association  
Works Progress Administration  
Work Requested  
Wyoming - Cooperation  
Wyoming - Inquiries  
W - Miscellaneous  
X-Y-Z - Miscellaneous  
Youngquist, C. Vernon  
Y - Miscellaneous  
Z - Miscellaneous

#### Ground Water Branch, 1940-41

Abstracts  
Accounts, Division of  
Adams, Robert W.  
Administrative Geologist  
Agriculture, Department of  
Akin, P. Donald  
Alabama - Cooperation  
Alabama - Inquiries  
American Association for the Advancement of Science  
American Association of Petroleum Geologists  
American Society of Civil Engineers  
American State Geologists, Association of  
American Water Works Association  
Anderson, Keith E.  
Annual Report (1940)  
Arizona - Gila River  
Arizona - Inquiries  
Arkansas - Cooperation  
Arkansas - Inquiries  
A - Miscellaneous  
Babcock, Horace W.  
Bach, W. Kenneth  
Bahama Islands - Inquiries  
Baker, Roger C.  
Barksdale, Henry C.  
Bennett, Robert R.  
Berthiaume, Sheridan A.  
Brashears, Maurice L., Jr.  
Bratton, Donald H.  
Brown, Glen F.  
Brown, Russell H.  
Byran, Kirk  
Byers, Alan C.  
B - Miscellaneous  
Cady, Richard C.  
California - Santa Maria Valley  
California - Santa Ynez River Basin  
California - Inquiries  
Carlston, Charles W.  
Cederstrom, Dagfin J.  
Chief Clerk  
Chief Hydraulic Engineer

Chief Geologist  
 Chief Topographic Engineer  
 Collins, William D.  
 Colorado - Inquiries  
 Colvin, Robert H.  
 Commerce, Department of  
 Connecticut - Inquiries  
 Conover, Clyde S.  
 Cooper, Hilton H., Jr.  
 Cross, William P.  
 Cuba - Inquiries  
 Cushing, Elliott M.  
 C - Miscellaneous  
 Defense Information  
 Delaware - Inquiries  
 Dennis, P. Eldon  
 Detweiler, Abraham L.  
 Director  
 District of Columbia - Inquiries  
 Drainage Basin Projects: Mobile-Suwannee River Basin; Pearl-Pascagoula River Basin;  
     Miscellaneous Drainage Projects  
 Drescher, William J.  
 Dupont de Nemours, E. I. & Company  
 D - Miscellaneous  
 Economic Geologists, Society of  
 Economic Geology  
 Engineer News-Record  
 Erosion, Division of  
 E - Miscellaneous  
 Federal Power Commission  
 Fellom, Roger  
 Ferris, John G.  
 Fiedler, Albert G.  
 Field Equipment, Division of  
 Fishel, Vinton C.  
 Florida - Cooperation  
 Florida State Geological Survey  
 Florida - Inquiries  
 Foley, Frank C.  
 Foster, Vellora M.  
 Frye, John C.  
 F - Miscellaneous  
 Garrett, Arthur A.  
 Geological Society of America  
 Geophysical Section  
 George, William O.  
 Georgia Department of Natural Resources  
 Georgia - Inquiries  
 Gerardi, Anglo P.  
 Ground Water Estimates [mostly Indiana]  
 Guyton, William F.  
 G - Miscellaneous  
 Hale, William E.  
 Hart, Rodney

Hawaii - Cooperation  
 Hawaii - Inquiries  
 Hill, Raymond A.  
 H - Miscellaneous  
 Idaho - Inquiries  
 Illinois - Inquiries  
 Indiana - Cooperation  
 Indiana - Inquiries  
 Inquiries - Miscellaneous  
 Interviews  
 Iowa - Cooperation  
 I - Miscellaneous  
 Jacob, Charles E.  
 J - Miscellaneous  
 Kansas - Cooperation - Kansas Geological Survey  
 Kansas - Inquiries  
 Kazmann, Raphael G.  
 Kentucky - Inquiries  
 Klaer, Fred, H., Jr.  
 K - Miscellaneous  
 Lang, Joe W.  
 LaRoque, George A.  
 Latta, Bruce F.  
 Leggette, Ralph M.  
 Library - Survey  
 Livingston, Penn  
 Loeltz, Omar J.  
 Lohman, Stanley W.  
 Louisiana - Cooperation  
 Louisiana - Inquiries  
 L - Miscellaneous  
 McGuinness, Charles L.  
 McCauley, Thomas, Jr.  
 McDonald, Harris R.  
 MacDonald, Gordon A.  
 Maher, John C.  
 Maine - Inquiries  
 Maryland - Inquiries  
 Massachusetts - Inquiries  
 Maxey, George B.  
 Meinzer, Oscar E.  
 Mexico - Inquiries  
 Michigan - Cooperation  
 Michigan - Inquiries  
 Minnesota - Inquiries  
 Mississippi - Cooperation  
 Mississippi - Inquiries  
 Missouri  
 Montana - Inquiries  
 Morgan, Arthur W.  
 Morrison, Roger B.  
 Mundorff, Maurice J.  
 Murray, C. Richard  
 M - Miscellaneous

Nace, Raymond L.  
 National Resources Planning Board  
 National Research Council  
 Navy Department  
 Nebraska - Cooperation  
 Nebraska State Conservation and Survey Division  
 Nebraska - Inquiries  
 Nevada - Cooperation and Inquiries  
 Newcomb, Reuben C.  
 New Hampshire - Inquiries  
 New Jersey - Inquiries  
 New Mexico - Mimbres Valley  
 New Mexico - Inquiries  
 New York - Inquiries  
 New York - Water and Power Control Commission  
 North Carolina - Cooperation  
 North Carolina - Elizabeth City  
 North Carolina - Inquiries  
 North Carolina State Board of Health  
 North Dakota - Cooperation  
 North Dakota - Inquiries  
 N - Miscellaneous  
 Observation Wells - Committee on  
 Odum, Dr. Hilmar  
 Offsetting  
 Ogden, Evelyn M.  
 Ohio, Canton  
 Ohio, Canton (A. Nelson Sayre)  
 Ohio Chamber of Commerce  
 Ohio - Cooperation  
 Ohio - Inquiries  
 Ohio - Mill Creek Valley Conservation Association  
 Oklahoma Conservation Commission and Geological Survey  
 Oklahoma Geological Survey  
 Oklahoma - Inquires  
 Oregon  
 Oregon - Inquiries  
 O - Miscellaneous  
 Parker, Garald G.  
 Pecos River Joint Investigation  
 Pennsylvania - Cooperation (Department of the Internal Affairs)  
 Pennsylvania - Inquiries  
 Personnel  
 Phelps, Leonard C.  
 Piper, Arthur M.  
 Pittman, Harry F.  
 Poland, Joseph F.  
 Public Works Reports  
 P - Miscellaneous  
 Ranney Water Collector Corporation  
 Rasmussen, William C.  
 Reed, Edwin W.  
 Reports of Construction and Maintenance  
 Robinson, John W.

Robinson, Thomas W.  
 Rose, Nicholas A.  
 R - Miscellaneous  
 Sayre, A. Nelson  
 Schaefer, Edward J.  
 Schoff, Stuart L.  
 Smith, Clay T.  
 Soil Conservation Projects  
 South Carolina - Cooperation  
 South Carolina - Inquiries  
 South Dakota - Inquiries  
 Speer, Paul R.  
 Standards, Bureau of  
 Stearns, Harold T.  
 Stringfield, Victor T.  
 Stuart, Wilbur T.  
 Sundstrom, Raymond W.  
 S - Miscellaneous  
 Taylor, George C., Jr.  
 Taylor, George H.  
 Tennessee - Cooperation  
 Tennessee - Inquiries  
 Texas - Cooperation  
 Texas - Inquiries  
 Theis, Charles V.  
 Thomas, Harold E.  
 Thompson, David G.  
 Topographic Branch  
 Turner, Samuel F.  
 T - Miscellaneous  
 U. S. Employees' Compensation Commission  
 Upson, Joseph E.  
 Utah - Cooperation  
 U - Miscellaneous  
 Vermont - Inquiries  
 Virgin Islands  
 Virgin Islands - Inquiries  
 Virginia - Cooperation  
 Virginia - Inquiries  
 Virginia - Virginia Beach  
 V - Miscellaneous  
 Wahrhaftig, Clyde  
 Waite, Herbert A.  
 War Department  
 Waring, Gerald A.  
 Warren, Moultrie A.  
 Washington, - Inquiries  
 Wenzel, Leland K.  
 Westendick, Frank C.  
 West Virginia - Cooperation  
 West Virginia - Inquiries  
 Wheelan, Berea D.  
 White, Walter N.  
 Williams, Charles C.

Wilson, Edith C.  
 Wilson, Woodrow W.  
 Womersley, Irene  
 Works Projects Administration  
 Worts, George F.  
 Wyoming - Cooperation  
 Wyoming - Inquiries  
 W - Miscellaneous  
 Youngquist, C. Vernon

Ground Water Branch, 1942  
 American Water Works Association  
 Anderson, Keith E.  
 Arizona - Gila River Conference  
 Arkansas - Cooperation  
 A - Miscellaneous  
 Barksdale, Henry C.  
 Bennett, Robert R.  
 Brashears, Maurice L.  
 Broadhurst, William L.  
 Brown, Glen F.  
 Brown, Russell H.  
 B - Miscellaneous  
 Carlston, Charles W.  
 Cederstrom, Dagfin J.  
 Chief Geologist  
 Chief Hydraulic Engineer  
 Chief Topographic Engineer  
 Commerce, Department of  
 Cooper, Hilton H.  
 C - Miscellaneous  
 Dennis, P. Eldon  
 Director  
 D - Miscellaneous  
 Economic Geology  
 E - Miscellaneous  
 Federal Power Commission  
 Federal Works Agency  
 Field Equipment, Division of  
 Fishel, Vinton C.  
 Florida State Geological Survey  
 Forms - General  
 Frye, John C.  
 F - Miscellaneous  
 George, William O.  
 Georgia - Cooperation  
 Graham, Jack B.  
 Greenlee, Arthur L.  
 Guyton, William F.  
 G - Miscellaneous  
 Hale, William E.  
 H - Miscellaneous  
 Indiana  
 I - Miscellaneous

Jacob, Charles E.  
 Jeffords, Russell M.  
 Kazmann, Raphael G.  
 Klaer, Fred H., Jr.  
 K - Miscellaneous  
 Lang, Joe W.  
 LaRocque, George A.  
 Leggette, Ralph M.  
 Livingston, Penn  
 Lohman, Stanley W.  
 Louisiana - Cooperation  
 L - Miscellaneous  
 McDonald, Harris R.  
 McGuinness, Charles L.  
 Maher, John C.  
 Maryland - Cooperation  
 Maxey, George B.  
 Meinzer, Oscar E.  
 Meinzer, Oscar E. - Extra copies of Circular Memorandums by  
 Morgan, Arthur M.  
 Morrison, Roger B.  
 Mundorff, Maurice J.  
 M - Miscellaneous  
 Nace, Raymond L.  
 Navy Department  
 Nebraska Conservation and Survey Division  
 North Carolina, Elizabeth City  
 North Dakota State Geological Survey  
 N- Miscellaneous  
 Ohio - Cooperation and C. V. Youngquist  
 Oklahoma - Cooperation  
 O - Miscellaneous  
 Parker, Garald C.  
 Piper, Arthur L.  
 Pittman, Harry F.  
 Poland, Joseph F.  
 P - Miscellaneous  
 Rasmussen, William C.  
 Reclamation, Bureau of  
 Reed, Edwin W.  
 Robinson, Thomas W.  
 Rose, Nicholas A.  
 R - Miscellaneous  
 Sayre, A. Nelson  
 Schoff, Stuart L.  
 Stearns, Harold T.  
 Stringfield, Victor T.  
 Sundstrom, Raymond W.  
 Swenson, Frank A.  
 S - Miscellaneous  
 Taylor, George C., Jr.  
 Taylor, George H.  
 Tennessee - Cooperation  
 Texas State Board of Water Engineers

Theis, Charles V.  
 Thomas, Harold E.  
 Thompson, David G.  
 Turner, Samuel F.  
 T - Miscellaneous  
 U. S. Employees' Compensation Commission  
 Utah - Cooperation  
 U - Miscellaneous  
 Virginia - Cooperation  
 Virginia, Newport News  
 Waite, Herbert A.  
 War Department  
 Waring, Gerald A.  
 Warren, Moultrie A.  
 War work with cooperative funds  
 Water Resources Bulletin  
 Wenzel, Leland K.  
 Westendick, Frank C.  
 West Virginia Geological and Economic Survey  
 White, Walter N.  
 W - Miscellaneous

#### Ground Water Branch - 1943

Abstracts, Annotated Bibliography of Economic Geology  
 Accounts, Division of  
 Agriculture, Department of  
 Alaska Highway  
 American Water Works Association  
 Arizona - Cooperation  
 Arkansas - Cooperation  
 A - Miscellaneous  
 Baker, Roger C.  
 Barksdale, Henry C.  
 Bennett, Robert B.  
 Brashears, Maurice L.  
 Brenner, Freda S.  
 Broadhurst, William L.  
 Brown, Glen F.  
 Brown, Russell H.  
 Bryan, Kirk  
 B - Miscellaneous  
 Cady, Richard C.  
 California - Cooperation and Inquiries  
 Carlston, Charles W.  
 Cederstrom, Dagfin J.  
 Chief Geologist  
 Chief Hydraulic Engineer  
 Collins, William D.  
 Commerce, Department of  
 Conover, Clyde S.  
 Cooper, H. L., Jr.  
 Cross, William P.  
 Cushing, Elliott M.  
 C - Miscellaneous

Delaware Cooperation and Inquiries  
 Dennis, P. Eldon  
 Denny, Eugene D.  
 Director  
 D - Miscellaneous  
 Economic Geology, Society of  
 E - Miscellaneous  
 Ferris, John G.  
 Field Equipment  
 Fielder, Albert G.  
 Fishel, Vinton C.  
 Florida - Cooperation and Inquiries  
 Foley, Frank C.  
 F - Miscellaneous  
 Geological Society of America  
 Georgia - Cooperation and Inquires  
 Gerardi, Angelo P.  
 Graham, Jack B.  
 Greenlee, Arthur L.  
 Guyton, William F.  
 G - Miscellaneous  
 Herrick, Stephen M.  
 H - Miscellaneous  
 Idaho - Cooperation  
 Illinois - Cooperation  
 Indiana - Cooperation  
 Inter-American Affairs (South America)  
 Iowa - Cooperation  
 I - Miscellaneous  
 Jacob, Charles E.  
 Jeffords, Russell M.  
 Kansas - Cooperation  
 Kazmann, Raphael G.  
 Kentucky - Cooperation and Inquiries  
 Klaer, Fred H., Jr.  
 LaRocque, George A.  
 Livingston, Penn P.  
 Lohman, Stanley W.  
 Louisiana - Cooperation and Inquires  
 L - Miscellaneous  
 MacDonald, Gordon A.  
 McDonald, Harris R.  
 McGuinness, Charles L.  
 Maher, John C.  
 Maryland - Cooperation  
 Maxey, George B.  
 Meinzer, Oscar. E.  
 Michigan - Inquiries and Cooperation  
 Mines, Bureau of  
 Miscellaneous memorandums to field men  
 Mississippi - Cooperation  
 Morgan, Arthur M.  
 Mundorff, Maurice J.

Murray, C. Richard  
 M - Miscellaneous  
 Nace, Raymond L.  
 National Planning Board  
 National Research Council  
 Nebraska - Cooperation and Inquiries  
 Nevada - Cooperation  
 New Jersey - Cooperation  
 New Mexico - Cooperation and Inquiries  
 North Carolina - Cooperation and Inquiries  
 North Dakota - Cooperation  
 N - Miscellaneous  
 Ohio - Cooperation and Inquires  
 Oklahoma - Cooperation  
 Open file - replies from field men to Oscar E. Meinzer  
 Parker, Garald G.  
 Pennsylvania - Inquiries and Cooperation  
 Piper, Arthur M.  
 Poland, Joseph P.  
 Purchasing Office, Memorandums to  
 Reclamation, Bureau of  
 Reed, Edwin W.  
 Robinson, Thomas W.  
 Rose, Nicholas A.  
 Sayre, A. Nelson  
 Schaefer, Edward J.  
 Standards, Bureau of  
 Stearns, Harold T.  
 Stringfield, Victor T.  
 Stuart, Wilbur T.  
 Sundstrom, Raymond W.  
 Taylor, George C., Jr.  
 Taylor, George H.  
 Tennessee - Cooperation and Inquiries  
 Texas - Inquires and Cooperation  
 Theis, Charles V.  
 Thompson, David G.  
 Turner, Samuel F.  
 T - Miscellaneous  
 Unklesbay, Athel G.  
 Upson, Joseph E.  
 U - Miscellaneous  
 Virginia - Cooperation  
 Virgin Islands  
 Waite, Herbert A.  
 War Department  
 Warren, M. A.  
 West Virginia - Cooperation and Inquiries  
 White, Walter N.  
 Youngquist, Lewellyn W.

## Appendix 31

### Ground Water Branch - Administrative Correspondence Files, 1944-53 (entry 575)

#### Ground Water Branch, 1944:

Alabama, Tuscaloosa  
Arizona, Tucson  
Arkansas - Cooperation  
California - Long Beach and Santa Barbara  
Florida - Miami and Tallahassee  
Georgia, Savannah  
Hawaii, Honolulu  
Indiana, Indianapolis  
Iowa, Iowa City  
Kansas, Lawrence  
Kentucky, Louisville  
Louisiana, Baton Rouge  
Maryland, Baltimore  
Massachusetts  
Michigan  
Mississippi, University  
Montana  
Nebraska, Lincoln  
Nevada, Las Vegas  
New Jersey, Trenton  
New Mexico, Albuquerque  
New York, Jamaica, Long Island  
North Carolina, Raleigh  
North Dakota, Grand Forks  
Ohio, Columbus  
Oklahoma, Norman  
Oregon, Portland  
Pennsylvania, Philadelphia  
Rhode Island  
Tennessee, Memphis  
Texas, Austin  
Utah, Salt Lake City  
Virginia, Charlottesville  
West Virginia, Morgantown  
Wisconsin  
Wyoming, Cheyenne

#### Ground Water Branch, 1944:

Accounts, Division of  
Agriculture, U. S. Department of  
Alaskan Highway  
American Water Works Association  
A - Miscellaneous  
B - Miscellaneous  
Chief Geologist  
Chief Hydraulic Engineer  
Commerce, U.S. Department of

C - Miscellaneous  
 Director  
 Drainage Basins  
 Economic Geologists, Society of  
 E - Miscellaneous  
 Federal Power Commission  
 Division of Field Equipment  
 F - Miscellaneous  
 Geological Society of America  
 Ground Water Estimates  
 G - Miscellaneous  
 H - Miscellaneous  
 I - Miscellaneous  
 J - Miscellaneous  
 K - Miscellaneous  
 Librarian  
 L - Miscellaneous  
 Miscellaneous memorandums  
 M - Miscellaneous  
 National Reclamation Association  
 National Research Council  
 N - Miscellaneous  
 Personnel  
 Project Estimates (Postwar Projects)  
 P - Miscellaneous  
 Quality of Water  
 Reclamation, Bureau of  
 R - Miscellaneous  
 Suggestions Committee  
 S - Miscellaneous  
 T - Miscellaneous  
 U - Miscellaneous  
 V - Miscellaneous  
 War Department  
 Water Resources Committee  
 West Virginia Inquiry  
 W - miscellaneous

Ground Water Branch, 1945:

Alabama, Tuscaloosa  
 Arizona, Tucson  
 Arkansas  
 California, Long Beach and Santa Barbara  
 Colorado, Denver  
 Florida, Miami  
 Florida, Tallahassee  
 Georgia, Savannah  
 Hawaii, Honolulu  
 Idaho  
 Indiana, Indianapolis  
 Iowa, Iowa City  
 Kansas, Lawrence  
 Kentucky, Louisville  
 Louisiana, Baton Rouge

Maryland, Baltimore  
 Massachusetts  
 Michigan  
 Mississippi, University  
 Nebraska, Lincoln  
 Nevada, Las Vegas  
 New Jersey, Trenton  
 New Mexico, Albuquerque  
 New York, Jamaica, Long Island  
 North Carolina, Raleigh  
 North Dakota, Grand Forks  
 Ohio, Columbus  
 Oklahoma, Norman  
 Oregon, Portland  
 Pennsylvania, Philadelphia  
 Rhode Island  
 South Dakota  
 Tennessee, Memphis  
 Texas, Austin  
 Utah, Salt Lake City  
 Virginia, Charlottesville  
 West Virginia, Morgantown  
 Wisconsin  
 Wyoming, Cheyenne

Ground Water Branch, 1945:

Accounts, Division of  
 American Society of Civil Engineers  
 American Water Works Association  
 Arkansas - Cooperation (El Dorado Investigation)  
 A - Miscellaneous  
 Branch Charges  
 B - Miscellaneous  
 Chief Geologist  
 Chief Hydraulic Engineer  
 Chile  
 Commerce, U. S. Department of  
 C - Miscellaneous  
 Director  
 D - Miscellaneous  
 Economic Geologists, Society of  
 Federal Power Commission  
 Division of Field Equipment  
 Geological Society of America  
 H - Miscellaneous  
 INCODEL (Interstate Commission on the Delaware River Basin)  
 I - Miscellaneous  
 Laboratory Methods  
 L - Miscellaneous  
 Michigan (Iron River Investigation)  
 Miscellaneous Memoranda  
 Miscellaneous Memoranda to Field Offices  
 Missouri River Basin Investigation  
 M - Miscellaneous

Nevada (Steamboat Springs Investigation)

N - Miscellaneous

Property

Puerto Rico

P - Miscellaneous

Reclamation, Bureau of

R - Miscellaneous

Suggestions Committee

S - Miscellaneous

T - Miscellaneous

U - Miscellaneous

V - Miscellaneous

War Department

Water Works Engineering

Water Resources Committee

W - Miscellaneous

Ground Water Branch, 1946:

Alabama, Tuscaloosa

Arabia

Arizona, Tucson

Arkansas

California, Long Beach

California, Santa Barbara

Colorado, Denver

Florida, Miami

Florida, Tallahassee

Georgia, Atlanta

Hawaii, Honolulu

Idaho

Indiana, Indianapolis

Iowa, Iowa City

Kansas, Lawrence

Kentucky, Louisville

Louisiana, Baton Rouge

Maryland, Baltimore

Massachusetts

Michigan

Mississippi, University

Missouri River Basin Project

Nebraska, Lincoln

Nevada, Las Vegas

New Jersey, Trenton

New Mexico, Albuquerque

New York, Jamaica, Long Island

North Carolina, Raleigh

North Dakota, Grand Forks

Ohio, Columbus

Oklahoma, Norman

Oregon, Portland

Pennsylvania, Philadelphia

Rhode Island

South Dakota

Tennessee, Memphis

Texas, Austin  
Utah, Salt Lake City  
Virginia, Charlottesville  
West Virginia, Morgantown  
Wisconsin  
Wyoming, Cheyenne

Ground Water Branch, 1946:

Accounts, Division of  
Agriculture, U. S. Department of  
American Society of Civil Engineers  
American Water Works Association  
Budget Estimates  
B - Miscellaneous  
Chief Clerk  
Chief Geologist  
Chief Hydraulic Engineer  
Columbia Basin  
Commerce, U. S. Department of  
Coordination Committee  
C - Miscellaneous  
Conference - Field Men  
Conference - Ground Water and Water Resources; Regional Meeting, Water Resources Branch at  
Montgomery Alabama; East-Central Water Resources Conference at Indianapolis, Indiana  
DeBucharanne, C. D. (accident)  
Deferments  
Director  
Drainage Basins  
Economic Geologists  
Federal Power Commission  
F - Miscellaneous  
Geological Society of America  
H - Miscellaneous  
I - Miscellaneous  
J - Miscellaneous  
Laboratory  
Librarian  
L - Miscellaneous  
Miscellaneous Memoranda  
Miscellaneous Memoranda to Field  
Mississippi, Upper Embayment Investigation  
Missouri River Basin Project  
M - Miscellaneous  
N - Miscellaneous  
Property  
Puerto Rico  
P - Miscellaneous  
Reclamation, Bureau of  
R - Miscellaneous  
Suggestions Committee  
S - Miscellaneous  
Virgin Islands  
War Department  
W - Miscellaneous

Ground Water Branch, 1947:

Accounts, Division of  
American Association for the Advancement of Science  
American Geophysical Union  
American Water Works Association  
Annual Reports - Secretary  
Arkansas River Basin  
A - Miscellaneous  
Budget Estimates  
B - Miscellaneous  
Chief Geologist  
Chief Hydraulic Engineer  
Colorado River Basin  
Columbia Basin  
Commerce, U.S. Department of  
Conference - Field Men  
Cooperation Committee  
Coordination Northwest (Piper)  
C - Miscellaneous  
Director  
Economic Geologists, Society of  
F - Miscellaneous  
Geological Society of America  
Ground Water Program  
G - Miscellaneous  
I - Miscellaneous  
Joint Research and Development Board  
J - Miscellaneous  
Laboratory  
Librarian  
L - Miscellaneous  
Miscellaneous Memoranda  
Miscellaneous Memoranda to the Field  
Missouri River Basin Project  
M - Miscellaneous  
N - Miscellaneous  
Publications  
Puerto Rico  
P - Miscellaneous  
P - Philippines, Palestine, Panama, Peru  
Reclamation Association  
Reclamation, Bureau of  
Research and Development  
R - Miscellaneous  
Suggestions Committee  
Superior Accomplishment Recommendation  
S - Miscellaneous  
War Department  
W - Miscellaneous  
Congressional Hearings - Material

Ground Water Branch 1947:

Alabama, Tuscaloosa  
Arizona, Tucson  
Arkansas - Cooperation  
California, Long Beach and Santa Barbara  
Colorado, Denver  
Florida, Miami and Tallahassee  
Georgia, Atlanta  
Hawaii, Honolulu  
Idaho, Boise  
Indiana, Indianapolis  
Iowa, Iowa City  
Kansas, Lawrence  
Kentucky, Louisville  
Louisiana, Baton Rouge  
Maryland, Baltimore  
Massachusetts, Boston  
Michigan  
Mississippi, University  
Nebraska, Lincoln  
Nevada, Carson City  
New Jersey, Trenton  
New Mexico, Albuquerque  
New York (Jamaica and Albany)  
North Carolina, Raleigh  
North Dakota, Grand Forks  
Ohio, Columbus  
Oklahoma, Norman  
Oregon, Portland  
Pennsylvania, Philadelphia  
Rhode Island  
South Dakota  
Tennessee, Memphis  
Texas, Austin  
Utah, Salt Lake City  
Virginia, Charlottesville  
West Virginia, Morgantown  
Wisconsin, Madison  
Wyoming, Cheyenne

Ground Water Branch, 1948-53:

Alabama, Tuscaloosa  
Alaska, Arctic Ground Water Research  
Alaska  
Alaska, Bureau of Yards and Docks  
Arizona, Holbrook, Phoenix, Navajo  
Arizona, Tucson  
Arkansas, Little Rock  
Arkansas Bauxite Project  
California, Santa Barbara  
California, Sacramento  
Colorado, Denver  
Connecticut  
Connecticut, Middletown

Delaware  
Florida, Miami  
Florida, Tallahassee  
Georgia, Atlanta  
Guam, Trust Territory  
Hawaii, Honolulu  
Idaho, Boise  
Illinois  
Indiana, Indianapolis  
Iowa, Iowa City  
Kansas, Lawrence  
Kentucky, Louisville  
Louisiana, Baton Rouge  
Maryland, Baltimore  
Maryland, Salisbury  
Massachusetts, Boston  
Michigan, Ishpeming  
Michigan, Lansing  
Minnesota  
Minnesota, Minneapolis  
Minnesota, St. Paul  
Mississippi  
Mississippi, University  
Montana  
Montana, Billings  
Nebraska, Lincoln  
Nevada, Carson City  
New Hampshire  
New Jersey, Trenton  
New Mexico, Albuquerque  
New York, Jamaica, Mineola, and Albany  
New York, Mineola  
New York, Albany  
North Carolina, Raleigh  
North Dakota, Bismarck  
North Dakota, Grand Forks  
Ohio, Columbus  
Oklahoma, Norman  
Oregon, Portland  
Pennsylvania, Philadelphia  
Rhode Island  
Rhode Island, Providence  
South Carolina  
South Dakota  
Tennessee, Memphis  
Texas, Austin  
Texas, El Paso  
Utah, Salt Lake City  
Vermont  
Virginia, Charlottesville  
Virginia  
Virgin Islands  
Washington  
Washington, Tacoma

West Virginia  
West Virginia, Morgantown  
Wisconsin  
Wisconsin, Madison  
Wyoming  
Wyoming, Cheyenne

Ground Water Branch 1948-53:

Acquisition of Lands  
Alaska  
Alaska Projects  
American Geophysical Union  
American Institute of Mining and Metallurgical Engineers  
American Society of Civil Engineers  
American Standards Association  
American Water Works Association  
Arid Zone, Committee on  
Arkansas River Basin  
Arkansas - Red-White River Basin Inter-agency Committee  
Army, Department of  
Artificial Recharge  
Authorized Certifying Officers  
Data for 1951 Automobile Report  
A - Miscellaneous  
Branch History  
Budget Estimates  
Bureau of Land Management  
B - Miscellaneous  
Carpenter, Charles  
Central and Southern Florida Flood Control District  
Central Arizona Project  
Central Valley Basin, California  
Chief Counsel  
Chief Geologist  
Chief Hydraulic Engineer  
Colorado Projects  
Colorado River Basin  
Columbia Basin  
Columbus Equipment Laboratory  
Commerce, U.S. Department of  
Conference - Field Men  
Conservation Foundation  
Cooperation Committee  
Coordination - Northwest (Piper)  
C - Miscellaneous  
Director  
Summary of Drilling Contracts  
D - Miscellaneous  
Economic Geologists, Society of  
Employees Compensation, Bureau of  
Equipment  
Executive Officer  
E - Miscellaneous  
Federal Observation Well Program

Report of Field Trips  
 Fish and Wildlife Service  
 Fort Berthold  
 F - Miscellaneous  
 Geological Society of America  
 Geologic Names, Committee on  
 Geophysics Branch  
 "Glacial & Pre-glacial Drainage"  
 Great Lakes Hydrology  
 Ground Water Programs  
 G - Miscellaneous  
 Hoover Committee  
 Hornum, Neils  
 H - Miscellaneous  
 Illinois Waterway  
 Indian Affairs, Office of  
 Industrial Waste Disposal  
 Inter-Agency Committee on Hydrologic Data  
 Inter-Agency River Basin Committee  
 Invention Reports  
 I - Miscellaneous  
 Jacob, Charles E.  
 Joint Research and Development  
 J - Miscellaneous  
 Field Reports for Keck Elements  
 K - Miscellaneous  
 Labor Department - Wage Rates  
 Laboratory  
 Leases  
 Lincoln Hydrologic Laboratory  
 Literature, Ground Water  
 L - Miscellaneous  
 Project Mahoney  
 Mining Hydrology - Research  
 Miscellaneous Memoranda  
 Miscellaneous Memoranda to Field  
 Mississippi Basin Flood Control Project  
 Mississippi - Upper Embayment Investigation  
 Missouri River Basin Project  
 Mountain Home Project, Idaho  
 Munitions Board  
 M - Miscellaneous  
 National Park Service  
 National Research Council  
 National Resource Committee  
 National Security Resources Board  
 National Water Well Association  
 Navajo Indian Reservation Project  
 Navy Department  
 Navy Department, Bureau of Yards and Docks  
 New Hampshire  
 New York  
 N - Miscellaneous  
 Organization, "Councils" for Field Offices

O - Miscellaneous  
 Pacific Northwest Council  
 Passamaquoddy Project, Army Corps of Engineers  
 Personnel  
 Phreatophytes (Salt Cedar) Investigations  
 Projects  
 Publications  
 Puerto Rico  
 P - Miscellaneous  
 Q - Miscellaneous  
 Radioactivity  
 Reclamation, Bureau of  
 Reconstruction Finance Corporation  
 Renewable Resources, Subcommittee on  
 Reports  
 Research  
 Research - Pine Barrens  
 Research - Eureka Mine, Nevada  
 Research and Development  
 Research Projects  
 R - Miscellaneous  
 Secretary's Office  
 Secretary's Report  
 Soil Conservation Service  
 Sonic Research Survey  
 Southwest Field Committee  
 Staff Geologist  
 State Cooperative Agreements  
 Suggestions Committee  
 Synthetic Fuel Plants, Data on  
 S - Miscellaneous  
 T - Miscellaneous  
 U - Miscellaneous  
 Virgin Islands  
 War Department  
 War Department, Sixth Army Area  
 Water Resources Committee  
 Water Well Journal  
 Well Drilling  
 Well Numbering (Systems)  
 Well Specifications  
 Well Specifications, No. 1086  
 W - Miscellaneous  
 Y - Miscellaneous

## Appendix 32

### Quality of Water Branch - Records Concerning Field Offices and Laboratories, 1939-52 (entry 601)

Air Force, Department of, 1946-52  
Alaska, General, 1918-50  
Alaska, 1951-52  
Alaska, Palmer Laboratory, 1950-51  
Albuquerque - Proceedings of the Quality of Water Branch Sediment Conference, 1952  
American Chemical Society, 1950-51  
American Water Works Association - Chesapeake Section, 1949-52  
American Water Works Association - Miami Conference, 1946-47  
Arkansas, General, 1946-47  
Arkansas, Fayetteville Laboratory, 1947-48  
Arkansas, Fayetteville Laboratory, 1948-49  
Arkansas, Fayetteville Laboratory, 1949-50  
Arkansas, Fayetteville Laboratory, 1950-51  
Arkansas, General, 1951-52  
Army, Department of, 1942-52  
California, 1948-51  
California, 1951-52  
Colorado River Basin, 1945-51  
Columbia River Basin, 1944-50  
Equipment Development Laboratory - Columbus Ohio, 1949-51  
Fish and Wildlife Service, 1947-51  
Florida, Ground Water, 1946-52  
Florida, Ocala, Laboratory, 1951-52  
Florida, South and Central (includes Everglades Project), 1948-52  
Florida State Geological Survey (includes the St. Johns River), 1942-52  
Florida, Tallahassee, 1946-52  
Florida, Pinellas County, 1943-49  
Iowa, 1940-50  
Iowa, Surface Waters, 1939-52  
Kentucky, 1949-52  
Louisiana, 1944-49  
Louisiana, 1949-51  
Louisiana, Investigations in Southwestern Louisiana, 1950-52  
Maryland, 1949-51  
Michigan, 1946-51  
Mississippi River Basin, 1947-52  
Missouri River Basin, 1949  
Missouri River Basin, 1949-50  
Missouri River Basin, 1950  
Missouri River Basin, 1950-51  
Missouri River Basin, 1951  
Missouri River Basin, 1952  
Navy Department, 1946-52  
Nevada - Steamboat Springs, 1944-46  
New Mexico, Albuquerque, 1946-47  
New Mexico, Albuquerque, 1947-48  
New Mexico, Albuquerque, 1948-49  
New Mexico, Albuquerque, 1949-50

New Mexico, Albuquerque, 1950-51  
 New Mexico, Albuquerque, 1951-52  
 New Mexico, Albuquerque, (Frank C. Ames), 1951-52  
 New Mexico, Albuquerque, Sediment (Frank C. Ames), 1949-51  
 New Jersey, Ground Water, 1941-52  
 New York, 1947-52  
 North Carolina, Raleigh, 1946-47  
 North Carolina, Raleigh, 1947-48  
 North Carolina, Raleigh, 1948-49  
 North Carolina, Raleigh, 1949-50  
 North Carolina, Raleigh, 1950-51  
 North Carolina, Raleigh, 1951-52  
 Ohio, Water Resources Board, 1945-50  
 Ohio River Valley Water Sanitation Commission, 1948-50  
 Ohio, 1946-50  
 Ohio Regional Laboratory, 1947-48  
 Ohio Regional Laboratory, Columbus, 1948-49  
 Ohio Regional Laboratory, Columbus, Floor Plans, 1948  
 Ohio Regional Laboratory, Columbus, 1949-50  
 Ohio Regional Laboratory, Columbus, 1950-51  
 Ohio Regional Laboratory, Columbus, 1951-52  
 Ohio, Toledo Laboratory, 1947-48  
 Ohio, Toledo Laboratory, 1948-49  
 Oklahoma, Cooperation, 1946-47  
 Oklahoma, 1947-48  
 Oklahoma, Stillwater, 1948-49  
 Oklahoma, Stillwater Laboratory, 1949-50  
 Oklahoma, Stillwater Laboratory, 1950-51  
 Oklahoma, Stillwater Laboratory, 1951-52  
 Pacific Northwest, 1949-52  
 Pennsylvania, Ground Water, 1945-51  
 Pennsylvania, Surface Water (Projects), 1944-51  
 Pennsylvania, Schuylkill Haven Laboratory, 1947-52  
 Pennsylvania, 1946-52  
 Pennsylvania Requisitions, 1951  
 Pollution, 1947-50  
 Reclamation, Bureau of, 1945-52  
 Rubidoux Laboratory, 1945-52  
 Savannah River Salinity Studies, 1945-51  
 Schuylkill Haven, Pennsylvania; Philadelphia; Toledo - Purchase Orders, 1947-48  
 Schuylkill Haven, Pennsylvania; Philadelphia, Pa.; Columbus, Ohio, 1948-49 (Field Requisitions)  
 Schuylkill Haven, Pennsylvania; Philadelphia, Requisitions, 1948-50  
 South Carolina, Cooperation, 1945-51  
 Suggestions Committee  
 Temperature of Surface Waters, 1946-49  
 Tennessee, 1947-50  
 Texas, Austin, 1946-47  
 Texas, Austin, 1947-48  
 Texas, Austin, 1948-49  
 Virginia, 1943-51  
 Washington Office, Quality of Water, Requisitions, 1949-50  
 Washington Office, Quality of Water, Requisitions, 1950-51  
 Water Utilization Committee, 1950-52

## Appendix 33

### General Hydrology Branch - General Correspondence Files, 1920-59 (entry 636)

Organization and Management, Atlanta, Ernest L. Hendricks, 1952-56  
Organization and Management, Salt Lake City, Harold V. Peterson, 1954  
Organization and Management, Rocky Mountain Area, 1952-58  
Organization and Management, Equipment Development - General, 1955-58  
Organization and Management, Equipment Development, Laboratory (Keith S. Essex), 1956-59  
Organization and Management, Equipment Research (EDL) (Arthur H. Frazier), 1941, 1956-59  
Organization and Management, Delaware River Draft Report, 1958  
Organization and Management, Project Hydrologist, Delaware River (Garald G. Parker [Sr.]), 1956-57  
Organization and Management, Project Hydrologist, Delaware River (Garald G. Parker [Sr.]), 1958  
Organization and Management, Project Hydrologist, International (Wilbur D. Simons), 1955-57  
Organization and Management, Water Loss Investigations, 1949-57  
Finance & Budget Fiscal Records, 1945-48  
Finance & Budget, Technical Coordination Branch, 1949-54  
Finance & Budget Purchase Orders, FY 1951  
Finance & Budget Purchase Orders, Expense Vouchers, Travel Authorizations, FY 1952  
Finance & Budget Accounts Expense Vouchers, FY 1953  
Finance & Budget, Purchase Orders, FY 1953  
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## Appendix 34

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- Box 1            Reports [transmittal letters], 1953-56  
                  Peterson, Harold V., 1940-43  
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- Box 2            Task Force, Review of "A Water Policy for the American People," 1950-51 (2 binders)
- Box 3            Minutes of meetings, Departmental Task Force to consider the Report of the President's Water  
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- Box 4            Areal soil conservation, 1951-55  
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- Box 5            Cheyenne River Basin, 1950-56  
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- Box 6            Lake Mead water loss studies, 1948-58 (2 files)
- Box 7            Water-loss conferences, 1948-53  
                  Lake Mead administration and personnel, 1951-53  
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- Box 8            Waterton-Belly Rivers investigations, 1951-53  
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- Box 9            Waterton-Belly Rivers Board, draft and reference material, 1949-55  
                  Waterton-Belly Rivers Engineering Committee, Minutes, 1948-50  
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Box 11 Waterton-Belly Rivers, reports, 1948-53

Box 12 Columbia River Basin, Correspondence, 1944-55 (4 files)

Box 13 Columbia River, 1936-41  
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Box 14 Columbia River - Grand Coulee, Statements at Spokane Hearings, 1941  
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- Box 29 "Memorandum re Conditions in the Kootenay Valley in the vicinity of Creston, British Columbia," 1940  
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- Box 30 Sage Creek, 1945-51 (3 files)  
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- Box 31 St. Mary and Milk Rivers, reports and documents, 1915-42 (7 items, printed)  
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- Box 32 St. Paul District Office, General, 1928-51  
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- Box 34 "Water Resources of the Saint John River Basin, Quebec, Maine, New Brunswick," Interim report to  
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- Box 35 Special Board, Interior, Principles regarding water and power, U.S. and Canada, 1951-55  
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- Box 36 Pacific Northwest Governors' Policy Committee, 1954-58 (2 files)
- Box 37 Mexican Treaty, 1944-45  
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## Appendix 35

### General Hydrology Branch - Reports and other Records concerning Water Sources for Livestock, 1942-59 (entry 638)

- 1942: "Geology and its effect on flood runoff in the Lower Moapa Valley, Nevada"  
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"Prospective well sites for stock-watering purposes in Hurricane Grazing District No. 1, Arizona"  
"Proposed location of stock-water wells in Arizona Grazing District No. 2, Kingman District"  
"Location of prospective sites for stock wells in Arizona Grazing District No. 3"  
"Location of stock-well sites in the Hopi Indian Reservation, Arizona"  
"Suggestive water development program for wild life, Organ Pipe Cactus National Monument, Arizona"  
"Location of prospective stock-water well sites and comments on other phases of soil and moisture activities being carried on in the Navajo Reservation, Arizona and New Mexico"  
"Development of watering places for wild life in Wupatki National Monument, Arizona"  
"Location of prospective well sites for stock-water wells in the Hualpai Indian Reservation, Arizona"  
"Prospects for providing a ground water supply sufficient for irrigation of a proposed feed center located on the Hassayampa Plain near Wickenburg, Arizona"  
"Prospective locations for stock-wells in the Big Sandy Valley, Arizona"
- 1943 "Results of geophysical measurements on the Papago Indian Reservation, Arizona, and near Kingman, Arizona"  
"Prospective stock-well sites in Arizona Grazing District No. 2"  
"Some prospective stock-well sites in Nevada Grazing District No. 5"  
"Some prospective stock-well sites in the Papago Indian Reservation, Arizona"  
"Some prospective well locations in Arizona Grazing District No. 3"  
"Observations regarding some proposed spring development in the Hualpai Indian Reservation, Arizona"  
"Prospective stock-well sites in Arizona Grazing District No. 4, Graham and Greenlee Counties, Arizona"  
"Development of springs and location of prospective stock-wells in Nevada Grazing District No. 5"
- 1944: "Some prospective stock-well sites in Nevada Grazing District No. 4"  
"Results of recent resistivity explorations for stock-well locations in the Kingman Grazing District, Arizona"  
"Prospect for developing ground-water supplies near Shiprock, New Mexico, and near Peach Springs, Arizona"  
"Prospects for obtaining a school well near Nagesi Trading Post, San Juan County, New Mexico"  
"Description of proposed stock-well sites in Grazing Districts Nos. 1, 2, 3, 4, 5, and 6, New Mexico"  
"Investigation of proposed stock-well sites in Grazing Districts Nos. 2, 10, 3, and 4, Utah Region"  
"Prospective stock-well sites in Vermillion Grazing District No. 11, Utah"

- 1945: Prospective stock-well sites, stock tanks and spring developments in Escalante Grazing District No. 5, Utah"
- "Prospective stock-well sites in Grand Grazing District No. 9, Utah"
- "Proposed stock-well sites in the San Rafael Grazing District No. 7, Utah"
- "Prospective stock-well sites in Duchesne Grazing District No. 8, Utah"
- "Water supply at the Carson Colony, Jack's Valley Ranch and the Dresslerville Colony, Nevada"
- "Prospective stock-well sites in the Virginia City Grazing District, Nevada"
- "Prospective stock-well sites in Jordan Valley Grazing District No. 4, Oregon"
- "Stock-water development in parts of the Owyhee Desert located west of the South Fork of the Owyhee River and south of the Nevada-Oregon Boundary. All within the Elko Grazing District"
- "Stock water development in parts of the Pyramid Grazing District, Nevada"
- "Suggestions concerning range water developments in parts of the Elko Grazing District, Nevada"
- "Prospects for obtaining a successful well in the Ferguson Desert, Western Utah"
- "Proposed stock-watering projects on public domain in Coconino, Maricopa, Yavapai and Yuma Counties, Arizona"
- "Prospective stock water developments on Indian allotments in the Southwestern part of Oregon Grazing District No. 4"
- "Stock-water supplies on public domain in Estancia Valley and Encino Basin, New Mexico"
- 1946: "Prospective stock-well sites in the Fort Hall Indian Reservation, Idaho"
- "Prospective stock-well sites in Safford Grazing District No. 4, Graham and Greenlee Counties, Arizona"
- "Prospective stock-well sites in the Bonneville and Pahvant Grazing Districts, Utah"
- "Examination of proposed stock-well sites on public domain in Maricopa and Yavapai Counties, Arizona"
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- "Location of prospective stock-well sites in the Goshute and Independence Valleys, Nevada"
- "Domestic water supply for the Moapa Indian Agency, Nevada"
- "Examination of proposed stock-well sites in Tensleep Grazing District 1, Wyoming"
- "Examination of proposed stock-well sites on the Horse Prairie Soil and Moisture Project in Grazing District 5, Montana"
- "Examination of proposed well site in Bridger Grazing District 4, Montana"
- "Examination of proposed stock-well sites on public domain in Beaverhead and Madison Counties, Montana"
- 1947: "Prospective well sites on Adams and Anderson leases on public domain near Winkelman, Arizona"
- "Examination of proposed well site on Wickenburg community allotment, Maricopa Grazing District 3, Arizona"
- "Examination of proposed well sites in Wyoming Grazing District 2"
- "Prospects of stock-water wells on the Arapahoe Tribal Pasture, Wind River Indian Reservation, Wyoming"
- "Water-supply studies and investigations for proposed new school sites and enlargement of existing schools on the Navajo Indian Reservation"
- "Examination of proposed stock-well sites on public domain in Pima County, Arizona"
- "Proposed stock-well sites in Grazing Districts 1-4, 6 and 7, New Mexico"
- "Proposed stock-well sites in the Indian Wells Valley and Cuddleback Lake Valley, California"
- "Proposed stock-well sites in the San Rafael Grazing District No. 7, Utah"
- "Proposed stock-well sites in the Western part of the Pahvant Grazing District No. 3, Utah"

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 "Reservoir lining materials located in Escalante Grazing District No. 5, Utah"  
 "Examination of proposed well-site on stock trail near Mayoworth, Wyoming"  
 "Prospective stock-well sites on the Day and Stevens grazing allotments, Greenlee County, Arizona"  
 "Investigations of range-water prospects in part of the Wind River Indian Reservation, Wyoming"  
 "Location of prospective stock-well sites in the Ruby and Steptoe Valleys, Elko County Grazing District, Nevada"  
 "Prospective stock-well sites in the Paradox, Disappointment and Pioneer Valleys, Colorado"  
 "Prospective stock-well sites in the Lakeside Mountain Region, Utah"  
 "Stock water development in Little Gypsum and Pioneer Valleys, Montrose and San Miguel Counties, Colorado"
- 1949: "Range water resources of a part of the Elko Grazing District, Elko County, Nevada"  
 "Examination of proposed well-site in Cumberland Unit, Grazing District No. 4, Wyoming"
- 1950: "Prospective stock-well sites in Arizona Grazing District No. 2, Kingman, Arizona"  
 "Prospective stock-well sites in the Tule Valley and Charleston Mountain Area, Nevada"  
 "Prospective stock-well sites in the Arizona Grazing District No. 3, Wickenburg, Arizona"  
 "Prospective stock-watering sites in Bonneville Grazing District, Utah No. 2"  
 "Examination of proposed stockwell sites in Grazing District 5, Wyoming"  
 "Prospective stock-well sites in the Duckwater Area, Nye and White Pine Counties, Nevada"
- 1951: "Stock watering sites on parts of the Arizona Strip"  
 "Prospective stock-well sites in the Puddle Valley Area, Tooele County, Utah"  
 "Investigation of well site in Topaz Valley, Juab County, Utah"  
 "Examination of possible stock-water well sites in the Stansbury Mountain Area"  
 "Water losses from stock reservoirs in Cheyenne Basin as indicated by performance of observation reservoirs during 1950-1951 water year (supplement to report "the effect of stock reservoirs on runoff in the Cheyenne Basin above Angostura Dam)"  
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 "General prospects of stock-water development by wells in the Nipple Rim, Seven Mile Ridge, and Great Divide Areas, Moffat County, Colorado"  
 "Water supply for the St. George, Washington County, Utah C. A. A. Station"
- 1952: "Island Ranch proposed stock-well site in Skull Valley, Tooele County, Utah"  
 "Examination of proposed well site near the Pryor Mountains in Bridger Grazing District 4, Carbon County, Montana"  
 "Examination of proposed well site in the Carter Draw Area, Grazing District 2, Fremont County, Wyoming"

- "Examination of 4 proposed well sites in Northwestern Natrona County near Lost Cabin, Wyoming"
- "Prospective stock-well sites in Twin Falls Grazing District west of Malad, Oneida and Power Counties, Idaho"
- "Further investigations for stock-watering sites on parts of the Arizona "Strip" "
- "Investigations of possible stock-well sites in western Mesa County, Colorado"
- "Location of prospective stock-well sites in the area west of Rio Grande, San Ysidro Grazing District No. 1, New Mexico"
- 1953: "Stock-well investigation in the eastern part of Elko Grazing District, Nevada"
- "Examination of proposed well site near Elk Mountain, Grazing District No. 4, Lincoln County, Wyoming"
- "Prospective stock-well sites in the Honey Lake Grazing District a few miles east of Susanville, California, and in the Cal-Neva Unit near Flanigan, Nevada"
- "Report of an examination of the Fort Duchesne, Utah, Area"
- 1954: "Examination of proposed well sites in the Red Desert Area, Grazing District No. 4, Sweetwater County, Wyoming"
- "Stock-well investigations along the Owyhee River in southeastern Oregon" (draft and report)
- "Stock-well investigations in the Denio Area, Harney County, Oregon" (draft and report)
- "A report of well-site investigations in four areas in Pyramid Grazing District, Humboldt County, Nevada"
- "Examination of proposed well sites in the Sand Gulch and Crooks Mountain Areas, Fremont County, Wyoming"
- "Prospective well sites near Kanab, Utah"
- "Examination of the Bitner Well, Massacre Lake District, Nevada"
- "Examination of proposed well sites in southern and eastern Elko County, Nevada"
- "Examination of proposed well site in Gobbler Draw, Grazing District No. 1, Carbon County, Montana"
- "Estimated precipitation and runoff for the Arizona Strip"
- "Report of geological conditions at several reservoir sites in the Hurricane Wash Drainage Basin, Mohave County, Arizona"
- "Stock-water development program for the Bonneville Grazing District, Tooele and Juab Counties, Utah"
- "Report of geological conditions at several reservoir sites in the Hurricane Wash Drainage Basin, Mohave County, Arizona"
- "Proposed well site near Bumblebee, Yavapai County, Arizona"
- "Proposed well site locations in Elko County, Nevada"
- "Prospective well sites in Nye and White Pine Counties, Nevada"
- 1955: "Proposed headquarters well site in the San Simon Valley near Bowie, Arizona"
- "Supplemental stock-well studies in Utah, Tooele, and Juab Counties, Utah"
- "Examination of proposed well sites in the Worland-Hyattville, and No Water Creek Areas, Washakie County, Wyoming"
- "Examination of proposed well sites in the Whiskey Gap and Arkansas Creek Areas, Carbon County, Wyoming"
- "Examination of proposed well sites near Fremont Butte, Grazing District No. 5, Sublette County, Wyoming"
- "Examination of proposed stock-well sites near Muskrat Creek, Grazing District No. 2, Fremont County, Wyoming"
- "Examination of proposed well sites near Boulder Lake, Sublette County, Wyoming"
- "Proposed test well in the Cane Spring Desert, Garfield County, Utah"
- "Proposed land treatment program near Canon City, Bureau of Land Management District 8, Colorado"

"Prospective stock-wells in Boise Grazing District, Owyhee and Elmore Counties, Idaho"  
 "Prospective stock-wells in the Salmon Grazing District, Idaho"  
 "Examination of proposed Arrow Head Dam Site on E-K Creek, Natrona County, Wyoming"

- 1956:
- "Prospective stock-well sites - Rio Grande Valley, New Mexico"
  - "Examination of proposed well sites near Baggs, Carbon County, Wyoming"
  - "Proposed well site on Jackson Wash, Washington County, Utah"
  - "Prospective stock-well sites in Nevada Grazing District No. 5, Lincoln County, Nevada"
  - "Examination of proposed well sites in Elko Grazing District, Nevada"
  - "Examination of proposed stock-well sites in Southeastern Montana, Powder River Grazing District No. 3"
  - "Examination of proposed stock-well site at Poncha Pass Reseeding Area, Saguache County, Colorado"
  - "Examination of proposed stock-well sites in Grazing District 5, Wyoming"
  - "Additional stock-well sites in the Honey Lake Grazing District, Lassen County, California"
  - "Stock-well investigations in Twin Falls and Owyhee Counties, Idaho"
  - "Examination of proposed well site in Grazing District 4, White Pine County, Nevada"
  - "Examination of proposed stock-well sites in Grazing District 5, Lincoln County, Idaho"
  - "Examination of selected grazing allotments in Bureau of Land Management Grazing District M-5 Montana, for development of stock-water wells"
  - "Proposed drilling on the Sand Hills Unit, Utah Grazing District No. 11"
  - "Investigation of proposed stock-well sites near Eagle, Colorado, in Colorado Grazing District 2"
  - "Investigation of proposed well sites on Bureau of Land Management District 4, Colorado"
  - "Further investigations and recommendations on the proposed Zumwalt Detention Structure - Hurricane Wash, Arizona"
  - "Proposed well site in the Vance Agee Allotment near O'Neil, Elko County, Nevada"
  - "Proposed well sites in the La Sal Area, San Juan County, Utah"
  - "Examination of proposed dam sites in New Mexico, Districts 1 and 7"
  - "Examination of proposed well sites in Basin Grazing District, Harney County, Oregon"
  - "Proposed well site near Grassy Mountain, Tooele County, Utah"
  - "Development of stock-water sources in the Madeline Plains Community Watershed, Lassen County, California"
  - "Examination of proposed well sites on Eighteen Mile Creek Area in Bureau of Land Management District 4, Wyoming"
- 1958:
- "Examination of several proposed well sites and reservoir sites in the Arizona Strip, Mohave County, Arizona"
  - "Examination of proposed well sites on the west side of San Luis Valley, Colorado"
  - "Proposed well sites near Squaw Mountain, Southwestern Elko County, Nevada"
  - "Well site examinations in the Carson City Grazing District, Nevada"
  - "Examination of proposed well sites near Warren in Grazing District No. 4, Carbon County, Montana"
  - "Examination of proposed well locations in Northeastern Fergus County and eastern Petroleum County, Grazing District 6, Lewistown, Montana"
  - "Examination of proposed stock-well sites in Escalante Grazing District No. 5, Wayne County, Utah"
  - "Examination of proposed well sites in the Vermillion Grazing District 11, Utah"
  - "Examination of proposed well sites in Grazing District 5, Lincoln County, Idaho"
  - "Examination of proposed well sites in Grazing District 1, Owyhee and Twin Falls Counties, Idaho"
  - "Examination of proposed well sites in the Minidoka Division, District 3, Butte County, Idaho"
  - "Examination of proposed well sites on public domain in Esmeralda County, Nevada"
  - "Examination of proposed stock-well sites in Twin Falls Grazing District 2, Twin Falls County, Cassia County, and Oneida County, Idaho"

"Examination of two grazing allotments near Saguache in the northwestern part of San Luis Valley, Colorado, for prospective stock-well sites"  
"Proposed wells along the Tongue River and Powder River, Custer, Rosebud, and Powder River Counties, Montana"

1959:

"Examination of proposed well site in Red Gulch Creek near Shell, Wyoming"  
"Examination of seven proposed well sites in Grazing District No. 4, Carbon County, Montana"  
"Proposed well site in Horse Hollow, Cedar City Valley, Iron County, Utah"  
"Prospective stock-well sites in Lassen and Modoc Counties, California"  
"Proposed test drilling near Fall River Mills, Shasta County, California"  
"Hydrology of stock-water development in eastern part of Owyhee Grazing District, Idaho"  
"Examination of proposed well sites in Eighteen Mile Canyon and Bridger Bench Areas in Bureau of Land Management District 4, Wyoming"  
"Proposed well sites on Grand Wash, Mohave County, Arizona"  
"Examination of proposed well site areas along the north side of Fort Peck Reservoir and Phillips and Valley Counties, Montana"  
"Examination of three proposed well sites in Grazing District 5, Montana"  
"Examination of proposed well site, Niobrara County, Wyoming"  
"Proposed well sites in the Longview Grazing District, Oregon"  
"Examination of proposed well site near Big Piney in Bureau of Land Management District 5, Wyoming"  
"Examination of proposed well sites in Bureau of Land Management Grazing Districts 1 and 6, Garfield, Rio Blanco, and Moffatt Counties, Colorado"

## Appendix 36

### General Hydrology Branch - General Files of the Reports Section, 1889-1966 (entry 639)

- 1800 Broad River at Anthony Shoals, Georgia - W. J. Lester, 1905, 1906
- 1801 Allotments and Appropriations, 1889-1908, 1935; Roster of Employees, 1905; Essays on Water Resources Investigations of Survey, and Division of Hydrology, n.d.
- 1802 Data regarding streams in San Diego and Riverside Counties, Calif., 1906; Floods in Southern California, 1914, 1916
- 1806 Methods of obtaining flood discharge measurements, 1906
- 1807 "Report on the Sawkill Watershed," Pennsylvania, n.d.
- 1808 "Hydrographic Gazetteer Memoranda" for waterways in Minnesota, South Dakota, and Iowa, n.d.
- 1809 Runoff data from New England stations, 1907-8; Runoff data for the Potomac River, Shenandoah River, James River, Eastern Maryland Streams, Raritan River, Passaic River, Susquehanna River, Allegheny Drainage, Wabash Drainage, and Savannah River, ca. 1906
- 1830 Elevations and Distances along the Mississippi River, n.d.
- 1831 "Report of Water-power Reconnaissance in Southeastern Alaska," 1909-10, by John C. Hoyt - accompanied by graphs, photographs, and maps
- 1832 Minnesota River, 1906
- 1833 "Mexico and Her Opportunities," by Winthrop E. Scarritt, 1906
- 1843 "Cost of, and Intensity of Distribution of Gaging Stations to Properly Complete a Hydraulic Investigation of the Surface Water Resources of the United States," by R. H. Bolster, n.d.
- 1844 Hydraulic Rams, Pumps, and Windmills, 1907-20; Report - "Discharge Measurements, Hydraulic Turbine Tests, U.S.R.S. Minidoka Project Idaho," by Eugene C. LaRue, 1910-11
- 1855 "Report on water-supply available for the irrigation project of the Mountain Home Cooperative Irrigation Company," Idaho, 1917-18, by G. Clyde Baldwin
- 1856 Graefenburg Hydrophysical Station, near Utica, New York, 1904-6
- 1858 "Available Water-power at the United States Government Locks and Dams," n.d.; "Available Water-power at Private Dams," n.d.; Chicago-Fort Wayne-Toledo Canal Company, n.d.
- 1965 Replies concerning available data on surge at gaging stations, 1925 (in response to a request in the December, 1924 newsletter): Comments on fluctuations, 1941
- 1966 Newspaper clippings and a list of "popular" articles on conservation, ca. 1908-11
- 1967 Great Lakes and Saint Lawrence River, 1895, 1896, 1921, 1942
- 1977 Lock-Bar Steel Pipe, 1907
- 1981 Puerto Rico, Discharge Measurements, 1909, 1962
- 1987 Mill Creek near Old Fort, North Carolina, 1907, 1931, 1950
- 1992 (Head) Fall-Increasers, 1908
- 1993 Sketch map showing the Platt National Park and the town site of Sulphur, Indian Territory, n.d.
- 1994 Hauling Capacity--Steam and Electric Locomotives, n.d.
- 1996 "Niobrara River near Spencer, Nebraska -- Description of station and Instructions for computing records, September 1940"
- 2062 Nicholson Ship Log Company, 1904, 1907-8
- 2073 Number of water-power centers listed by State and Territory, 1908; Estimate of streamflow and water-power in the United States, 1908; Graph showing "Floods on Alabama River at Selma, Ala., 1892-1907"
- 2183 Mississippi and Ohio Rivers, flood and miscellaneous data, 1895-1914, 1927; Postcards of the Paris flood of 1910; Northeastern Flood, 1955-57; Far West Flood, 1955-58
- 2184 Acts passed by Congress authorizing the construction of dams across navigable rivers for Power Purposes, 1896-1906; Available water-power at private dams, n.d.; Available water-power at the U.S. Government locks and dams, 1904; List of State Boards and Commissions of water supply, drainage, etc. n.d.; Maintenance charges, United States locks and dams, 1906; Norkfos Dam, Glommen, Norway, photograph and plotted charts, n.d.

2185 Map - Distribution of Under Ground Waters in the San Joaquin Valley, 1905  
 2195 Comparisons of stations on Umpqua River, Oregon, n.d.  
 2199 Comparisons of stations in Yakima Valley, 1904-9; Comparisons of stations on the Willamette, Deschutes, Umatilla and Grande Ronde Rivers, 1905-8; Hydrographic Chart of the Yakima River Watershed, 1909; Comparisons of stations on the Snake River, 1905-8  
 2415-A "Progress of Hydrometric Investigations in Massachusetts, 1910-1913," by C. C. Covert and C. H. Pierce  
 2697 The New York Barge Canal, 1917-20; Straightening and dredging the channel of Canaleraga Creek, New York, 1915  
 2729 Red Rock River, near Monida, Montana, 1911-12  
 2811 Gaging stations in New England and Pennsylvania, 1908-10  
 2812 Drainage area and rating curve errors in 1906, 1907, and 1908 reports, 1907-10  
 2813 Memoranda for reading galleys and page proof of Water-Supply Papers, 1907-8; Stream measurements in Pennsylvania, 1908; Gage height ratings in Tennessee River Basin, 1904-9; Regarding a manuscript for the Ohio River Basin, 1909  
 2814 Water-Supply Paper No. 244, regarding publication, 1909-10  
 2815 Water-Supply Paper No. 245, regarding publication, 1909-10  
 2820 Water-Supply Paper No. 250, regarding publication, 1909-10  
 2822 "List of River Stations for Reports," - Washington and Oregon, ca. 1907; Data for 1908 progress report, Washington and Oregon, 1909; Notes on rating in Columbia River Drainage Basin - Columbia River at the Dalles, n.d.  
 2831 Water-Supply Paper No. 261, regarding publication, 1910-11  
 2832 Water-Supply Paper No. 262, regarding publication 1910; and Part II, 1909 report, 1910  
 2833 Water-Supply Paper No. 262, Part III, 1909 report, 1910-10  
 2834 Reports on gaging stations for 1909 report, 1910  
 2835 Water-Supply Paper No. 265, regarding publication, 1910-11  
 2836 Water-Supply Paper No. 266, regarding publication, 1909-11  
 2837 Water-Supply Paper No. 267, regarding publication, 1910-11  
 2838 Water-Supply Paper No. 268, regarding publication, 1909-11  
 2839 Water-Supply Paper No. 269, regarding publication, 1909-11  
 2840 Water-Supply Paper No. 270, regarding publication, 1906-10  
 2841 Water-Supply Paper No. 271, regarding publication, 1910-11; Station record analysis of East Fork Bruneau River near Three Creek, Idaho, 1953  
 2842 Water-Supply Paper No. 272, regarding publication, 1910-11  
 2851 Water-Supply Paper No. 281, and Federal Report, 1910, regarding publication, 1910-12  
 2852 Water-Supply Paper No. 282, regarding publication, 1911  
 2853 Water-Supply Paper No. 283, and 1910 Annual Report, 1911-12  
 2854 Water-Supply Paper No. 284, and Part IV, 1910 Annual Report, 1911-12  
 2855 Water-Supply Paper No. 285, regarding publication, 1911-12  
 2856 Water-Supply Paper No. 286, and Part IV 1910 Annual Report, regarding publication, 1911-12  
 2857 Water-Supply Paper No. 287, regarding publication, 1911  
 2858 Water-Supply Paper No. 288, regarding publication, 1911  
 2859 Water-Supply Paper No. 289, regarding publication, 1911-12  
 2860 Water-Supply Paper No. 290, regarding publication, 1911-12  
 2861 Water-Supply Paper No. 291, regarding publication, 1911-12  
 2862 Water-Supply Papers Nos. 292 and 312, regarding publication, 1910-13  
 2862-A Accuracy of Discharge measurements made on Snake River at Neeley, Idaho, 1910-11  
 3051 Discharge measurements for Gibbs Brook, near Crawfords, New Hampshire, 1912  
 3080 Papers on "Ordinary Flow," 1914-15, 1934; Water Supply Paper No. 353, 1915; Reports on gaging-station maintenance and gaging-station card catalog, 1911

3081 Instructions regarding publications and reports, General, 1902-11; 1910 Instructions regarding publications and reports; 1911 Instructions regarding publications and reports; 1912 Instructions regarding publications and reports; Instructions re publications and reports, 1911-20; Instructions, Memorandums, etc. - Computing Section, 1911-12; Survey Circulars and Bulletins, 1933-43  
 3081-A Observer's Instruction Book - proposed draft, 1908  
 3081-B Computation Rules, Discussion of, 1911  
 3082 Gages - Installation and Instructions for reading, 1911-12, 1920  
 3083 Automatic Gages, 1889-1957  
 3084 Meters - tests, rating, and installation, 1897-1957  
 3085 Cables and Cars, 1930-55; Arizona District - plans for cable cars, reels, protractors, 1922-25;  
 3086 Methods of making systematic streamflow measurements, 1903-41  
 3087 Vertical Velocity Curves, 1955-60  
 3087-A Velocity, maximum measured, 1948-59  
 3088 Ice Measurements and Winter Work, 1908-49  
 3089 Accuracy of steam gaging, 1903-57; replies to circular letter of November 14, 1903, 1903-4; replies to memorandum of February 27, 1920  
 3090 Computations of discharge measurements, ca. 1904-59; "Notes on Basic Factors in the Determination of Rating Curves for flow of Streams," B. J. Peterson, and "River Discharge Rating Curves," J. H. Morgan, 1925-27  
 3091 Reports, Progress, etc., 1906-8  
 3092 Office Methods, 1903-58  
 3092-A Office Manual, 1920-55  
 3092-C Office Manual, Water Resources Branch Circular, October 5, 1945 (Replies and Summary), 1944-46  
 3093 Radio in Stream Gaging, 1946-47  
 3100 Eau Claire River at Wausau, Wisconsin (cross reference only, 1914)  
 3140 "Report of Reconnaissance of Rockaway River Drainage Basin above Boonton, N.J.," ca. 1914  
 3174 "Water Resources of the Jordan Valley District, Oregon," by L. W. Roush, 1914  
 3216 "Water Resources of Salmon Falls Creek near San Jacinto and Contact, Nevada," by Arthur W. Harrington, 1914  
 3218 Gaging station on Squaw Creek near Goldendale, Washington, 1912-13  
 3250 Gaging station on Hood River near Tucker's Bridge, Oregon, 1913  
 3306 Water-Supply Paper No. 370, regarding publication, 1914-15  
 3340 Missouri River at Hermann, Missouri, Special Computations, 1898-1928  
 3434 Discharge Integrators, 1914-66  
 3434-A Graph Subdivider, 1945-46  
 3512 Canyon Creek, at Bowman's Dam, near Emigrant Gap, California, 1913-14  
 3564 Little Tennessee River at Judson and Almond, North Carolina, Nantahala River at Almond, North Carolina, and the Tuckaseegee River at Bryson City, North Carolina, 1912-13  
 3741 Massachusetts Special Report, 1915-16  
 3949 "The Preservative Treatment of Farm Timbers," n.d.  
 3950 "Partial Report--on the Swamp and Overflow Lands of the United States," Sledge Tatum, 1910; Miscellaneous pictures of swamps, probably collected by R. Follansbee during 1908-9  
 3951 Level Rod Tripod, 1925; Gurley Levels, and Leupold and Voelpel Levels, 1913  
 3953 Observations of Tidal Currents, 1914  
 4286 Waterfalls, 1907-53  
 4389 "Report on Cable Installation--Gila River near Clifton, Arizona," 1932  
 4443 Datum Planes, 1912-14  
 4770 Compilation of Monthly Discharge Records - Atlantic Coast Rivers, ca. 1897-1910; Monthly Discharge for Stations in Ohio River Basin, ca. 1901-10  
 4771 Rainfall data, ca. 1874-1907

4772	Long-time Records of Stream Flow, 1915
4863	Tests of Thirty Pound Sounding Weight, 1924
4865	Mississippi River flow, 1923-24
5810-A	Mississippi River Basin - Comparisons of Discharge (sample), 1934-58
5810-B	Missouri River Adjustment sheets, 1938 (sample), H. C. Beckman, 1937-40
5810-C	Ohio River Basin - Comparisons of Discharge (sample), 1939-41
5810-D	Tennessee River Basin - Comparisons of Discharge (sample), 1939
5949	Area in square miles, of 5 minute quadrilateral on earth's surface between latitudes 33 degrees and 42 degrees, 1937-54
6011	"Report on Construction of Gaging Stations in Upper Little Colorado River Basin, Arizona," 1930
--	Garnet Creek near Snellville, Georgia, 1954-61

## Appendix 37

### Conservation Division - Mission Control Files, 1901-80 (entry 642)

The following is an alphabetical list of the major file headings found in entry 642. Boxes containing files that are not listed appear below under the designation - Miscellaneous. A complete list of the file titles follows this list.

Coal - boxes 1-3  
Committees - boxes 3-6, 13-16, 25-31, 33-35, 42-44, 54-60, 80, 81, 221  
Computation - boxes 32, 33, 51-54  
Contracts - boxes 6-9, 22-25, 44-48, 50, 51, 221, 222  
Cooperation - boxes 48-50, 64-71, 75-79, 101-173, 176-191, 222-237  
Cooperative Agreements - boxes 81, 82  
Crises - boxes 72-75, 191-206  
Environment - box 82  
Exploration - boxes 206-214  
Geothermal Resources - boxes 214-216, 237-240  
Helium - boxes 241, 242  
Information - boxes 217-220, 242-264, 335  
Land - boxes 275, 276  
Land, Determinations, Known Coal-Leasing Areas - boxes 277, 278  
Land, Known Geothermal Resource Areas - boxes 336, 489, 490  
Land, Withdrawals - boxes 490, 491  
Leases - box 83  
Legal - boxes 9-13, 16, 17-22, 35-41, 60-64, 289-291, 323-326, 330-343, 349-367, 373-379, 383-389, 410-413, 436-439, 442-445, 468-471, 475-482, 489, 491-499  
Legal & Legislation - boxes 82, 83  
Mapping - boxes 367-369  
Meetings - boxes 346-349, 380-383  
Mines and Mining - boxes 83, 466-468  
Mineral Commodities - boxes 465, 466  
Minerals - boxes 83  
Miscellaneous file-title headings - boxes 1, 80, 83, 87, 88, 90-100, 206, 214, 221, 359, 354, 488  
Oil and Gas - boxes 83-87, 291-293, 316-323, 326-330, 390-393, 396, 397, 413-429, 432-436, 439-442, 449-465, 468, 471-475, 482-485, 499-502  
Oil-Leasing Cases - box 96  
Oil Shale - boxes 293, 294, 397-406, 445-448  
Organization and Management - boxes 304-311, 313-316, 407-410, 429-432, 448, 449  
Paleontology and Stratigraphy - box 311  
Personnel - boxes 87, 311, 312  
Phosphate - boxes 312, 313  
Physical Exploration - box 369  
Pollution - boxes 264-267, 298-300, 370-373, 393-396  
Potash - boxes 281-283, 300, 343-346  
Programs and Plans - boxes 272-274, 284, 294, 503-506  
Reports and Statistics - boxes 87, 88, 268-271, 278-281, 285-288, 301-303  
Research - boxes 295, 296  
Resources and Classification - boxes 88, 89  
Royalties - box 89  
Safety and Health - boxes 89, 90  
Sodium - boxes 296, 297, 486  
Sulphur - boxes 486-488  
Survey Advisory Committee - box 97  
Water - boxes 488, 489  
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This is a complete list of the file titles found in entry 642. An alphabetical list of the major file headings comprising the entry precedes this list.

- Box 1            Accounting [c.r. to Royalty Accounting Office and Administrative Office Files], n.d.  
Asphalt & Tar Sands, General, 1941, 1963-65  
Asphalt & Tar Sands, General, 1965-70  
Asphalt & Tar Sands, General, 1974-76  
Asphalt & Tar Sands, General, 1971-75  
Coal, General, 1910-11, 1921-22, 1942-ca. 1952  
Coal, General, 1957-69
- Box 2            Coal, General, 1970-71  
Coal, General, 1971-72  
Coal, General, 1972-73  
Coal, General, 1973  
Coal, General, 1973  
Coal, General, 1974
- Box 3            Coal, General, 1974-75  
Coal, General, 1970, 1975-76  
Coal Lands, Alaska, ca. 1915-17, 1948-75  
Committees, Advisory Groups, General, ca. 1913, 1964-72  
Committees, Advisory Groups, General, 1972-73
- Box 4            Committees, Advisory Groups, General, 1974  
Committees, Advisory Groups, General, 1974-76  
Committees, Advisory Groups, General, OCS, 1975-76  
Committees, Advisory Groups, General, OCS, 1975  
Committees, Advisory Groups, General, OCS, 1973-74  
Committees, Advisory Groups, General, OCS, 1960-68  
Committees, Advisory Groups, General, OCS, 1968-76
- Box 5            Committees, Advisory Groups, General, OCS, ca. 1972  
Committees, Advisory Groups, General, OCS, 1973-74  
Committees, Advisory Groups, General, OCS, 1974-76  
Committees, Advisory Groups, General, OCS, Review Committee on Safety of Continental Shelf  
Petroleum Operations, 1974-76  
Committees, Advisory Groups, General, OCS, Review Committee on Safety of Continental Shelf  
Petroleum Operations, 1974
- Box 6            Committees, Advisory Groups, OCS, [Federal] Council for Environmental Quality Task Force on  
Atlantic/Alaska Oil and Gas Development, 1973-75  
Committees, Advisory Groups, OCS, [Federal] Council for Environmental Quality Task Force on  
Atlantic/Alaska Oil and Gas Development, 1974  
Committees, Advisory Groups, OCS, [Federal] Council for Environmental Quality Task Force on  
Atlantic/Alaska Oil and Gas Development, 1974  
Committees, Advisory Groups, OCS, Fishing Industry Advisory Group, 1967-71  
Committees, Advisory Groups, General, Metal & Nonmetal Mine Safety Advisory Committee,  
1971-74  
Contracts, General, Pocket for Letters, 1968-73
- Box 7            Contracts, Gas Storage, Accident Field, Maryland, 1962-70  
Contracts, Gas Storage, Aliso Canyon Field, California, 1967-72  
Contracts, Gas Storage, Aliso Canyon Field, California, 1972-73  
Contracts, Gas Storage, Asbury Creek, Colorado, 1962-65  
Contracts, Gas Storage, Asbury Creek, Colorado, 1965-71  
Contracts, Gas Storage, Baker Field, Montana, 1972-74  
Contracts, Gas Storage, Bistineau, Louisiana, 1966-69
- Box 8            Contracts, Gas Storage, Bistineau, Louisiana, ca. 1965  
Contracts, Gas Storage, Bistineau, Louisiana, ca. 1966  
Contracts, Gas Storage, Bistineau, Louisiana, n.d.  
Contracts, Gas Storage, Bunker Hill Field, Wyoming, 1972  
Contracts, Gas Storage, Chalk Creek, Utah, 1960-62

Box 9      Contracts, Gas Storage, Chalk Creek, Utah, 1961-68  
 Contracts, Gas Storage, Clinton Township, Ohio, 1953-54  
 Contracts, Gas Storage, Cobb, Montana, 1960-61  
 Contracts, Gas Storage, Dry Creek, Montana, 1966-67  
 Contracts, Gas Storage, Duffield Field, New Mexico [out on a USGS internal loan]  
 Contracts, Gas Storage, Dutcher Sand, Oklahoma, 1967  
 Contracts, Gas Storage, East Mahoney Dome Field, Wyoming, 1971-73  
 Contracts, Gas Storage, Fruita Field, Colorado, 1970-71

Box 10      Legal, Claims and Litigations, Pauly Petroleum Inc. v. U.S., OCS, 1970  
 Legal, Claims and Litigations, Pauly Petroleum Inc. v. U.S., OCS, 1970  
 Legal, Claims and Litigations, Pauly Petroleum Inc. v. U.S., OCS, 1971-72  
 Legal, Claims and Litigations, People of the State of California v. Union Oil, OCS, 1970  
 Legal, Claims and Litigations, Reyes et al v. First Security Bank, Utah [c.r. to legal sized folder - see box 339]  
 Legal, Claims and Litigations, Walter Riley v. Bell Oil Company, 1970  
 Legal, Claims and Litigations, Santa Barbara and other Litigations, OCS, 1969-73  
 Legal, Claims and Litigations, Santa Barbara, Tort Claims, OCS [c.r. to legal sized folder - see box 339]  
 Legal, Claims and Litigations, Security Pacific National Bank v. U.S., OCS, 1969  
 Legal, Claims and Litigations, Seminole Nation v. U.S., 1954-ca. 1969  
 Legal, Claims and Litigations, Shoshone Tribe v. Hathaway, 1969  
 Legal, Claims and Litigations, Shoshone Tribe v. U.S., 1951-52  
 Legal, Claims and Litigations, Sierra Club v. Morton, 1973-74  
 Legal, Claims and Litigations, Sierra Club v. Morton, et al & Shell Oil Company, 1974-75  
 Legal, Claims and Litigations, Simons v. Vinson & Clark, 1966  
 Legal, Claims and Litigations, Simons v. Vinson & Clark, 1966-76  
 Legal, Claims and Litigations, Simons v. Vinson & Clark, 1967-76

Box 11      Legal, Claims and Litigations, Simons v. Vinson & Clark, 1967  
 Legal, Claims and Litigations, Simons v. Vinson & Clark, 1967  
 Legal, Claims and Litigations, Sinclair & Cherry v. Krug, 1949  
 Legal, Claims and Litigations, Standard Oil of California v. Morton [c.r. to legal sized folder - see box 339]  
 Legal, Claims and Litigations, State of California v. Union Oil, OCS, 1969-74  
 Legal, Claims and Litigations, Sun Oil et al v. U.S., OCS, 1971-72  
 Legal, Claims and Litigations, Sun Oil et al v. U.S., OCS, 1972-76  
 Legal, Claims and Litigations, Sun Oil et al v. U.S., OCS, 1972

Box 12      Legal, Claims and Litigations, Superior Oil v. Udall, OCS, 1968-73  
 Legal, Claims and Litigations, Tallman et al v. Udall, 1963-64  
 Legal, Claims and Litigations, Texaco Inc. v. Hickel, OCS, 1971-74  
 Legal, Claims and Litigations, Texas Pipe Line Co. v. Railroad Commission of Texas, 1937  
 Legal, Claims and Litigations, Margaret B. Thomas v. Krug, 1949  
 Legal, Claims and Litigations, TOSCO v. Udall, 1966  
 Legal, Claims and Litigations, Transwestern Pipeline v. Kerr-McGee, 1970-72  
 Legal, Claims and Litigations, Transwestern Pipeline v. Kerr-McGee, 1972-75  
 Legal, Claims and Litigations, Uintah & White River Ute v. U. S., 1947, 1955-58  
 Legal, Claims and Litigations, Umpleby and Wasatch Development Company v. Udall, 1960-64  
 Legal, Claims and Litigations, U.S. v. Chevron Oil Co., OCS [c.r. filed in legal sized folder - see box 336]  
 Legal, Claims and Litigations, U.S. v. Continental Oil Co., OCS, 1970  
 Legal, Claims and Litigations, U.S. v. Continental Oil Company & General Petroleum Corporation, 1947-50  
 Legal, Claims and Litigations, U.S. v. Walter G. Davis et al, 1959  
 Legal, Claims and Litigations, U.S. v. Walter G. Davis et al, 1960-61

Box 13      Legal, Claims and Litigations, U.S. v. Walter G. Davis et al, 1962-64  
 Legal, Claims and Litigations, U.S. v. Energy Resources Technology Land, Inc., 1961-62  
 Committees, Congressional, House Appropriations Committee, 1965-76  
 Committees, Congressional, Interior & Insular Affairs Committee, 1959-65

Committees, Congressional, Interior & Insular Affairs Committee, 1967-68  
 Committees, Congressional, Interior & Insular Affairs Committee, 1969-70  
 Committees, Congressional, Petroleum Resources, Senate Special Committee to Investigate, 1945  
 Committees, Congressional, Petroleum Resources, Senate Special Committee to Investigate, 1945,  
 1973-74

Box 14 Committees, Congressional, Interior & Insular Affairs Committee, 1971  
 Committees, Congressional, Interior & Insular Affairs Committee, 1972  
 Committees, Congressional, Interior & Insular Affairs Committee, 1972  
 Committees, Congressional, Interior & Insular Affairs Committee, 1972  
 Committees, Congressional, Interior & Insular Affairs Committee, 1972  
 Committees, Congressional, Interior & Insular Affairs Committee, 1973-74  
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Box 498 Legal, Laws & Regulations, CFR, Operating, Oil & Gas, Unit Forms of Agreement, OCS [c.r. filed in legal sized folders - see box 333]  
 Legal, Laws & Regulations, CFR, Operating, Oil & Gas, Unit Forms of Agreement, Alaska, [c.r. filed in legal sized folders - see box 334]  
 Legal, Other Minerals, Coal (30 CFR 211), 1975  
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Box 499 Legal, Other Minerals, Coal (30 CFR 211), 1975-76  
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 Oil and Gas, Competitive Leasing, General, OCS, 1970  
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Box 500 Oil and Gas, Competitive Leasing, General, OCS, 1971  
 Oil and Gas, Competitive Leasing, General, OCS, 1971  
 Oil and Gas, Competitive Leasing, General, OCS, 1971  
 Oil and Gas, Competitive Leasing, General, OCS, 1971  
 Oil and Gas, Competitive Leasing, General, OCS, 1971-72

Box 501 Oil and Gas, Competitive Leasing, General, OCS, 1972  
 Oil and Gas, Competitive Leasing, General, OCS, 1972-73  
 Oil and Gas, Competitive Leasing, General, OCS, 1973  
 Oil and Gas, Competitive Leasing, General, OCS, 1974-76  
 Oil and Gas, Competitive Leasing, General, OCS, 1973  
 Oil and Gas, Competitive Leasing, General, OCS, 1973

Box 502 Oil and Gas, Competitive Leasing, General, OCS, 1971  
 Oil and Gas, Competitive Leasing, Drainage Tracts, Louisiana-Texas, OCS, 1972-73  
 Oil and Gas, Competitive Leasing, Leasing Schedules, OCS, 1966-68  
 Oil and Gas, Competitive Leasing, Leasing Schedules, OCS, 1969-70  
 Oil and Gas, Competitive Leasing, Leasing Schedules, OCS, 1971-76  
 Oil and Gas, Competitive Leasing, Tract Size, OCS, 1954-76  
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Box 503 Programs and Plans, Special, Federal Assistance Review (FAR) Program, 1972-74  
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 Programs and Plans, Special, Land Information Analysis (LIA), 1975-76  
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 Programs and Plans, Special, Motion-Picture Program, 1974  
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Box 504 Programs and Plans, Special, Oil-Import Program, 1961-71  
 Programs and Plans, Special, OCS Oil & Gas Lease Management Program, 1971-76  
 Programs and Plans, Special, OCS Oil & Gas Lease Management Program, 1976  
 Programs and Plans, Special, Offshore Evaluation Program, 1974  
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Box 505	Programs and Plans, Special, Resource and Land-Information Program (RALI), 1972
	Programs and Plans, Special, Resource and Land-Information Program (RALI), 1972-73
	Programs and Plans, Special, Resource and Land-Information Program (RALI), 1974-76
	Programs and Plans, Special, Resource and Land-Information Program (RALI), 1972-76
	Programs and Plans, Special, Resource and Land-Information Program (RALI), ca. 1971
Box 506	Programs and Plans, Special, Resource and Land-Information Program (RALI), ca. 1971
	Programs and Plans, Special, Requests for Proposals (RFP), 1974-76
	Programs and Plans, Special, Requests for Proposals (RFP), 1974-76
	Programs and Plans, Special, Seaswab, OCS, 1975
	Programs and Plans, Special, Shallow-Core Program, Gulf of Alaska, 1975
	Programs and Plans, Special, Systems Design Analysis Program (SDA), 1974-75
	Programs and Plans, Special, Urban-Area Studies Program (UAS), 1974
	Programs and Plans, Special, War Program, 1942

## Appendix 38

### Conservation Division - Reports and other Records concerning the Operation of Power Systems on Federal Lands, 1909-48 (entry 644)

Adirondack Electric Power Corporation, 1917  
Alaska Gastineau Mining Company, 1918-48  
Alaska Treadwell Gold Mining Company, ca. 1914  
Alturas Electric Power Company, 1916  
(The) American Gas Company, 1917  
American Light and Traction Company, 1910-14  
American Potash and Chemical Corporation, 1932-44  
American Power and Light Company, 1911, 1913, 1916  
American Public Utilities Company, 1917  
American Telephone and Telegraph Company, 1913, 1916  
American Waterworks and Electric Company, 1914  
Anderson-Cottonwood Irrigation District, 1916-17  
Arizona Gas and Electric (see: Public Utilities Consolidated Corporation)  
Arizona Edison Company, 1934-44  
Arizona Power Company, 1915-44  
Arizona, State of - Sacaton to Florence Power Line, 1921  
Arkansas Valley Railway, Light and Power Company, 1916  
Ashton & St. Anthony Power Company, Ltd. (see: Warm Springs Power Company)  
August Mining Company, 1917-22  
Augusta-Aiken Railway & Electric Corporation of South Carolina, 1916  
Bagdad Copper Company, 1942-44  
(The) Baltimore & Ohio Railroad Company, 1915  
(The) Bard Creek Mining Company, 1921-25  
Bay State Street Railway Company, 1916  
Beaver River Power & Light Company, 1915  
Bend Water, Light & Power Company, 1915  
Black Canyon Irrigation District, 1914  
Black Rock Power & Irrigation District, 1918-33 (also see: Priest Rapids Irrigation District)  
Black Stream Electric Company, 1915  
Blue Hill Street Railway Company, 1915  
Board of Directors of State Institutions, 1924  
Bristol Silver Mine Company, 1932-43  
Buckhorn Mines Company, 1917  
Butte, Anaconda and Pacific Railway, 1915  
Cain, J. S. (Standard Power Plant), 1921-24  
California Electric Power Company, 1941-44 (also see: (The) Nevada-California Electric Corporation)  
California-Oregon Power Company, 1918-45  
California-Pacific Utilities Company, 1944  
California Railway and Power Commission, 1914  
California State Water Commission, 1919-26  
California Telephone & Light Company (see: Mt. Konocti Light & Power Company)  
Calumet & Arizona Mining Company, 1918-30  
Carolina Power & Light Company, 1943-48  
Castle Dome, 1944

Cedar Rapids Manufacturing & Power Company, 1915  
 Central Arizona, 1942-44  
 Central California Gas Company, 1914  
 Central Illinois Light Company, 1915  
 Central Maine Power Company, 1915  
 Chesapeake & Potomac Telephone Company, 1916  
 Chicago, Milwaukee & St. Paul Railway Company, 1924-44  
 Christmas Copper Company, 1918-37  
 (The) Cincinnati Gas & Electric Company, 1916  
 Citizens Utilities Company, 1936-44  
 Cleveland Electric Illuminating Company, Ohio, 1909  
 Coachella Valley Ice and Electric Company, 1916-17  
 Coast Counties Gas & Electric Company, 1917  
 Coast Valleys Gas & Electric Company, 1914  
 Cokeville Light and Power Company, 1917-24  
 (The) Colorado Power Company, 1912-22  
 Colorado Springs Light, Heat and Power Company, 1915-16  
 Columbia Basin Irrigation Project, 1919-20  
 Commonwealth Edison Company, 1914  
 Community Public Service Company, 1942-44  
 (The) Connecticut Power Company, 1913  
 Consolidated Electric Light Company, 1917  
 Consolidated Gas Electric Light and Power Company of Baltimore, 1916  
 Consumers' Ditch Company, 1916  
 Consumers' Power Company, 1917-20  
 Coronado Copper and Zinc Company, 1944  
 Cuyamaca Water Company, 1917  
 Dallas Electric Company, 1916  
 Deming Ice and Electric Company, 1943-44  
 Denver and Rio Grande Railroad (later Denver and Rio Grande Western Railroad), 1916, 1942-44  
 Denver Gas & Electric Light Company, 1916  
 Denver Union Water Company, 1914  
 Deschutes Power Company, 1916-27  
 Desert Power & Water Company, 1918-32  
 Detroit Edison Company, 1918  
 Dominguez Water Company, 1915  
 Duquesne Light Company, 1917  
 Eastern Oregon Light & Power Company, 1915  
 Economy Mines Company, 1918-44  
 Electric Properties Company, 1907-11  
 Elkhorn Power Line (cross reference: reports filed with Oscar Rohn)  
 Elko Lamoille Power Company, 1916-44  
 Elmore Irrigated Farms Association, 1917  
 El Paso Electric Company, 1941-44  
 Empire Water Company, 1915  
 Ermont Mines Inc., 1943-44  
 Escondido Utilities Company, 1915  
 Everett Gas Company, 1915  
 Farmers Reservoir and Irrigation Company, 1917  
 Flathead Irrigation Project, Montana (Indian Service), 1931-44  
 Fontana Power Company, 1916

Fresno Farms Company, 1915  
 Gallup Electric Light and Power, 1944  
 Garden City Telephone, Light & Manufacturing Company, 1916  
 Gem Irrigation District, 1917, 1919  
 General Electric Company, 1912, 1914  
 (The) General Gas & Electric Company, 1916  
 Georgia-Carolina Power Company, 1918  
 Glenwood Light & Water Company, 1919-45  
 Goldfield Consolidated Water Company, 1916  
 Goose Lake Valley Irrigation Company, 1917  
 Grand Canyon Power Development Company, 1916  
 Grangeville Electric Light & Power Company, 1918-27  
 Grays Harbor Railway & Light Company, 1915  
 Great Falls Power Company, 1914-17  
 Great Northern Power Company, 1916  
 Great Northern Utilities Company, 1930-44  
 Great Shoshone and Twin Falls Water Power Company, 1911-15  
 Great Western Power Company, 1915-35  
 Hagan Power and Light Company, 1928-33  
 Half Moon Bay Light and Power Company, 1914  
 Harkness, Sarah (McGammon, Idaho), 1915  
 Harmony Mines Company, 1934-35  
 Helena Light & Railway Company, 1916  
 Hood River Gas & Electric Company, 1915  
 Hope Metals Company, 1929-34, 1936, 1942-43  
 Horse Heaven Irrigation District, 1917, 1920  
 Huntington Land and Improvement Company, 1914  
 (The) Hydraulic Power Company of Niagara Falls, 1916  
 Idaho Farm Development Company, 1919  
 Idaho Irrigation Company, 1917  
 Idaho Light and Power Company, 1915  
 Idaho-Oregon Light and Power Company, 1913, 1915  
 Idaho Power & Light Company, 1916, 1943-44, 1947  
 Idaho Power Company, 1917, 1936-41  
 Idaho Traction Company, 1915  
 Imperial Water Company, No. 1, 1917  
 Indiana Power and Water Company, 1916  
 Inland Power & Light Company, 1927-38, 1942  
 (The) Inland Utilities Company, 1940-44  
 Intermountain Power Company, 1919-30  
 Intermountain Railway, Light & Power Company, 1918  
 International Traction Company, 1916  
 Iowa Railway and Light Company, 1915  
 Jefferson City Light, Heat & Power Company, 1916  
 Kansas City Railways Company, 1916  
 Kaiser Company, Inc., 1944  
 Kennecott Copper Corporation, 1934-44  
 King Hill Project, 1920  
 Kings River Reclamation and Conservation District, 1916  
 Kremmling Light & Power Company, 1944  
 Lahontan Power Company, 1914

Lake Fork Milling & Power Company, 1929, 1933, 1935  
 Lake Hemet Water Company, 1917  
 Lake Superior District Power Company, 1941-44  
 Laurentide Power Company, Ltd., 1916  
 Lewiston Flat Irrigation District, 1919  
 Lewiston-Sweetwater Irrigation Company, 1917  
 Lincoln Electric Cooperative, Inc., 1941  
 Lincoln Water & Light Company, 1916  
 Lindsay-Strathmore Irrigation District, 1916  
 Longmont, City of, 1919-43  
 Los Angeles, Department of Water & Power, 1919-44  
 Los Angeles, City of, 1915-19  
 Los Angeles Municipal League, 1916  
 Los Angeles Railway Corporation, 1914-15  
 Loveland, City of, 1916-48  
 Malad Reservoir Company, 1914  
 Manhattan Ice, Light and Power Company, 1915  
 Matanuska Electric Association, Inc., 1943-44  
 McGammon, Idaho, Village of, 1916 (also see: Sarah Harkness)  
 Meadows Light & Power Company, 1916  
 Mesilla Valley Electric Company, 1930-40  
 Methow-Okanogan Project, 1920  
 Miami Conservancy District, Ohio, 1917  
 (The) Middle West Utilities Company, 1917-21  
 Millard Land & Water Company, 1919  
 Minnesota Power & Light Company, 1928  
 Mississippi Power Company, 1943-44  
 Modesto Irrigation District, 1915  
 Moffat Coal Company, 1929-44  
 Mokelumne River Power Company, 1916-19  
 Mono Mining Company, 1925-32  
 Montana-Dakota Utilities Company, 1941-44  
 Montana Power Company, 1915-48  
 Montana Railroad and Public Service Commission, 1917  
 Montgomery Hydroelectric Company, 1917  
 (The) Morenci Water and Electric Company, 1943-44  
 Mosca Irrigation District, 1915  
 Mt. Konocti Light & Power Company (California Telephone & Light Company), 1915-23, 1928  
 Mountain King Mining Company, 1916-21  
 Mountain State Power Company, 1930-42  
 (The) Nevada-California Electric Corporation, 1915-40 (also see: California Electric Power Company)  
 Nevada Consolidated Copper Company (formerly Ray Consolidated Copper Company), 1921-41  
 Nevada Valleys Power Company, 1915-29  
 Nevada Power Company, 1918-35  
 New Jersey Public Service Corporation, 1915  
 New Mexico Power Company, 1942-44  
 Niagara Falls Power Company, 1913, 1916  
 Niagara, Lockport & Ontario Power Company, 1916  
 Nogales Electric, Ice & Water Company, 1915  
 Norfolk & Western Railway Company, 1917  
 Northern California Power Company, 1916

Northern Idaho & Montana Power Company, 1917  
 Northern New York Power Corporation, 1915  
 Northern Ohio Electric Corporation, 1916  
 Northern States Power Company, 1916  
 Northwest Light & Water Company, 1916  
 Northwest Transmission Company, 1927-29  
 Northwestern Electric Company, 1915  
 Oakley Irrigation Project, 1914  
 Ochoco Irrigation District, 1921  
 Ogden, Logan and Idaho Railway Company, 1914  
 Okanogan County Public Power, Public Utility District No. 1, 1948  
 Ophir Hill Consolidated Mining Company, 1920-28  
 Ora Corporation, 1915  
 Oro Electric Corporation, 1911, 1916  
 Oregon Short Line R. R., 1914  
 Pacific Coast Borax Company, 1942-44  
 Pacific Electric Railway Company, 1912, 1917  
 Pacific Gas and Electric Company, 1915-40  
 Pacific Light and Power Corporation, 1915-17  
 Pacific Portland Cement Company, Consolidated, 1923-27  
 Pacific Power Corporation, 1916-17  
 Pacific Power & Light Company, 1910-44  
 Pacific Public Service Corporation, 1917  
 Palouse Irrigation Project, 1916  
 Penobscot Mining Company, 1918-29  
 Phelps Dodge Corporation, 1919-44  
 Phillips Development Company, 1927-28  
 Pima County, 1942-43  
 Pit River Power Project, 1920  
 Pittsburgh Railways Company, 1917  
 Plumas Sierra Rural Electric Co-operative, 1944  
 Pocatello Water Company, 1915  
 Portland Railway, Light & Power Company, 1916  
 Portneuf-March Valley Irrigation Company, 1913  
 Potomac Electric Power Company, 1916  
 Power System - Department of Water and Power, 1944  
 Prairie Power Company, 1918  
 Priest Rapids Irrigation District (also see: Black Rock Power & Irrigation District), 1934-43  
 Providence Mining Corporation, 1941  
 Provo Reservoir Company, 1915, 1920  
 Public Service Company of Colorado, 1924-44  
 Public Utilities Consolidated Corporation, 1917-38  
 Puget Sound International Railway & Power Company, 1916  
 Puget Sound Power and Light Company, 1944  
 Puget Sound Traction, Light & Power Company, 1919  
 Rawlins Electric Company, 1942-43  
 Salmon River Power and Light Company, 1917-29  
 Salt River Project, 1916  
 Salt River Valley Water Users Association, 1925-42  
 San Diego Consolidated Gas & Electric Company, 1916, 1934-43  
 San Joaquin Light and Power Company, 1920-34

Santa Barbara Gas & Electric Company, 1915  
 Schmidt & Mace, 1916  
 Seattle, City of, 1918, 1920  
 Seattle Lighting Company, 1915  
 Seminole Power Company, 1918-33  
 Sespe Light & Power Company of Los Angeles, n.d.  
 Shawinigan Water and Power Company, 1916  
 (The) Shoshone County Power Company, 1918-28  
 Sierra & San Francisco Power Company, 1916-20  
 Sierra Electric Power Company, 1916  
 Sierra Pacific Power Company (also see: Truckee River Power Company), 1928-44  
 Silver Star, 1943  
 Sinks Canyon Power Company, 1920  
 Snowstorm Consolidated Mines, 1917  
 South Carolina Light, Power and Railway Company, 1912  
 Southeast Colorado Power Association, 1946  
 Southern Arizona Power Company, 1923-28  
 Southern California Edison Company, Ltd., 1915-44  
 Southern California Gas Company, 1912, 1917-18  
 Southern Counties Gas Company, 1915  
 Southern Idaho Water Power Company, 1915  
 Southern Pacific Utilities Company, 1913  
 Southern Power Company, 1916  
 (The) Southern Sierras Power Company, 1915-35  
 Southern Wyoming Utilities Company, 1941-44  
 Southwestern Portland Cement Company, 1942-44  
 Stannard, E. T., 1920  
 Stanolind Oil and Gas Company, 1932-48  
 Steifer Mining Company, 1917-44  
 Stevens County Electric Cooperative, Inc., 1942-44  
 Stone and Webster, 1915-16  
 Stonewall Electric Company, 1942-44  
 Suburban Light and Power Company, 1917  
 South Side Gas & Electric Company, 1915  
 Spokane & Inland Empire Railroad Company, 1919  
 Spring Valley Water Company, 1917  
 Standard Consolidated Mining Company, 1915  
 Swan Creek Electric Company, 1915  
 Thompson Falls Power Company, 1916 (also see: Montana Power Company)  
 Toronto Power Company, Ltd., 1914  
 Tri-County Light & Power Company, 1916  
 Trinchera Irrigation District, 1915  
 Truckee River Power Company (also see: Sierra Pacific Power Company), 1914-29  
 (The) Tucson Gas, Electric, Light & Power Company, 1942-44  
 Tulare County Power Company, 1915  
 Twentynine Palms Air Academy, 1943  
 Twin Falls North Side Land and Water Company, 1919  
 Twin Falls Oakley Land & Water Company, n.d.  
 Twin Falls-Salmon River Land & Water Company, 1917  
 Union Pacific Coal Company, 1922-45  
 (The) United Gas and Electric Corporation, 1915

United Light & Power Company, 1915, 1924  
 United Light and Railways Company, 1924  
 United Missouri River Power Company, n.d.  
 United Railroads of San Francisco, 1915  
 United States Engineers (War Department), 1936-43  
 United States Fuel Company, 1916-44  
 United States Gypsum Company, 1938-44  
 United States Irrigation Service, 1936-40  
 United States Potash Company, 1932-44  
 United States Public Service Company, 1917  
 United Verde Copper Company, 1916, 1944  
 Utah Line, 1943  
 Utah Power & Light Company, 1916-44, 1947  
 Utah Securities Corporation, 1912, 1916  
 Utah Water Storage Association, 1920  
 Vernal Milling and Light Company, 1916-24  
 Virginia Railway and Power Company, 1912-17  
 Wapinitia Irrigation Company, n.d.  
 Warm Springs Power Company (Ashton & St. Anthony Power Company, Ltd.), 1920-23  
 Washington Irrigation & Development Company, 1920  
 (The) Washington Water Power Company, 1915-48  
 Waterpower Development Association, 1916  
 Waterpower Development League, 1916  
 Wenatchee Valley Gas & Electric Company, n.d.  
 West Coast Power Company, 1943  
 West Okanogan Valley Irrigation District, 1916  
 West Virginia Traction & Electric Company, 1917  
 Western Colorado Power Company, 1918-47  
 Western States Gas and Electric Company, 1917  
 Western States Utilities Company, 1925-42  
 Westinghouse Electric & Manufacturing Company, 1917  
 Weyerhaeuser Lumber Company, 1915  
 Winslow Electric Light & Power Company, 1916  
 Wisconsin Railway, Light and Power Company, 1913-14  
 Wishart, Cameron, and Herrin, n.d.  
 Yosemite Power Company, 1916

## Appendix 39

Water and Power Branch - Records concerning Land and Stream Classification, 1894-1961 (entry 675)

- D-100-1-1 "Norwalk Harbor, Connecticut," 1906 [59th Cong., 2d Sess., HR Doc 262]
- D-100-1-1 1/2 Central Maine Power Company, 1913 [brochures]
- D-100-1-3 "Redevelopment of Old Canal Power at Cohoes Falls, NY", 1915 [article]
- D-100-1-4 "Connecticut River, between Hartford, Connecticut, and Holyoke, Massachusetts," 1915 [64th Cong., 1st Sess., HR Doc. 417]
- D-100-1-5 International Joint Commission, "In the Matter of the Applications of the St. Croix Water Power Company and the Sprague's Falls Manufacturing Company, Limited," Order and Opinion, 1915 [bound item]
- D-100-1-6 "St. Croix River, Maine," 1930 [71st Cong., 3d Sess., HR Doc. 643]
- D-100-1-7 "Pamunkey River, Virginia," 1930 [71st Cong., 2d Sess., HR Doc. 54]
- D-100-1-8 "Patuxent River, Maryland," 1930 [71st Cong., 2d Sess., HR Doc. 463]
- D-100-1-9 "Merrimac River, Massachusetts, between Haverhill and Lowell," 1911 [62nd Cong., 1st Sess., HR Doc. 9]
- D-100-2-1 Developed Water-power of Georgia, 1914 [statistical table and articles]
- D-100-2-2 Hafer, Claude, "Hydro-Electric Power Installations in Northern Georgia," 1914 [article]
- D-100-2-3 Improvement of Coosa River, Georgia and Alabama, 1916 [printed hearings]
- D-100-2-4 "Meherrin River, Virginia and North Carolina," 1930 [71st Cong., 2d Sess., HR Doc. 446]
- D-100-2-5 "Yadkin-Pee Dee River and Its Tributaries, North Carolina and South Carolina," 1944 [78th Cong., 2d Sess., HR Doc. 652]
- D-100-3-1 Locations of water power-sites on the Muskingum River, Ohio, 1908
- D-100-3-2 Switzer J. A., "Recent Water-power Developments in Tennessee," 1914 [article]
- D-100-3-3 "Salt River, Kentucky," 1930 [71st Cong. 2d Sess., HR Doc. 477]
- D-100-4-1 [Charge card]
- D-100-4-2 O'Neill, William and Horton, Albert H., Location of Potential Water Power in Various Michigan Townships, 1908
- D-100-4-3 Diversion of water from the Niagara River, 1912-14, hearings and other papers
- D-100-4-4 Power companies at Niagara Falls, 1913 [brochures]
- D-100-4-5 "Red River of the North, Minnesota and North Dakota," 1915 [63rd Cong., 3rd Sess., HR Doc. 1666]
- D-100-4-6 Brown, John C., Special Agent, Letter regarding a field examination of homestead entries along the banks of the Sturgeon and Little Fork Rivers, Minnesota, 1913
- D-100-4-7 "Manistique River, Michigan," 1929 [71st Cong., 2d Sess., HR Doc. 56]
- D-100-4-8 "Big Crazy River, New York," 1930 [71st Cong., 2d Sess., HR Doc., 490]
- D-100-4-9 "Winooshi River, Vermont," 1931 [71st Cong., 3d Sess., HR Doc. 785]
- D-100-4-10 "Peshtigo River, Wisconsin," 1930 [71st Cong., 2d Sess., HR Doc., 491]
- D-100-4-11 "Oconto River, Wisconsin," 1930 [71st Cong., 2d Sess., HR Doc. 489]
- D-100-4-12 "Ausable River, New York," 1930 [71st Cong., 2d Sess., HR Doc. 488]
- D-100-4-13 "Poultney River, New York and Vermont," 1930 [71st Cong., 2d Sess., HR Doc., 485]
- D-100-4-14 "Winooshi River, Vermont," 1931 [71st Cong., 3d Sess., HR Doc. 785]
- D-100-4-15 "Missisquoi River, Vermont," 1930 [71st Cong., 2d Sess., HR Doc. 496]
- D-100-5-1 [Charge card]
- D-100-5-2 [Charge card]
- D-100-5-3 "Kankakee River, Illinois and Indiana," 1931 [71st Cong., 3d Sess., HR Doc., 784]
- D-100-5-4 "St. Croix River, Wisconsin and Minnesota," 1930 [71st Cong., 2d Sess., HR Doc. 462]
- D-100-5-5 "Fox River, Wisconsin and Illinois," 1930 [71st Cong., 2d Sess, HR Doc., 410]

D-100-5-6 "Wisconsin River, Wisconsin," 1930 [71st Cong., 2d Sess., HR Doc. 259]

D-100-5-8 "Pembina River and Tributaries, North Dakota," 1944 [78th Cong., 2d Sess., HR Doc., 565]

D-100-5-9 "Des Moines River, Iowa," 1944 [78th Cong., 2d Sess., HR Doc., 651]

D-100-6-1 Census Bureau, Irrigation in the Arid States, 1909-11 (printed items)

D-100-6-2 Correspondence and forms concerning water rights adjudicated by the Wyoming Board of Control, 1916-26

D-100-6-3 Newell, Frederick H., "A Report on the Management of Property of the Canada Land and Irrigation Company, Ltd.," 1918, and "Proposed Joint Report on Reclamation of Northern Semi-arid Region," 1918

D-100-6-4 Land Classification Reports of Northern and Central Great Plains, Western Colorado and Utah, 1929-33 [several authors]

D-100-6-5 U. S. Geological Survey, "Mineral and Water Resources of Wyoming," 1959

D-100-6A-1 Murphy, Edward C., Report on Land Withdrawn for Water-power Purposes along the Red Rock Creek (River), Red Rock Lakes, and Beaverhead River, Montana, 1911

D-100-6A-2 Richards, Raymond, Location of power-sites in various counties in Montana, 1908

D-100-6A-3 Regarding an appropriation by the Pine View Ditch Company of water from Indian Creek, 1914; Brief of report by E. C. Galbraith relative to the project of the Pine View Ditch Company, n.d.

D-100-6A-4 Archibald, George B., Mineral Inspector, Letter regarding investigations of the Big Hole Basin, Montana, 1909

D-100-6A-5 Lamb, William A., Letters concerning land restoration, Madison River Project, Montana, 1911

D-100-6A-6 Letters concerning the Big Hole River Basin, Montana, 1917-19

D-100-6A-7 Memorandum of data regarding dam and reservoir on West Fork of Wise River, Montana, 1919

D-100-6A-8 Murphy, Edward C., Memorandum on present status of Lima Irrigation Project, Montana, 1919

D-100-6A-9 Plats showing location of creeks and ditches in Montana [possibly relating to water-rights case of Donovan Ranch Company], n.d.

D-100-6A-10 Deeds, John F. and White, Walter N., "Water-power and Irrigation in Madison River Basin, Montana," 1924; Locke, J. G., "Report on Madison Irrigation Project," 1909

D-100-6A-11 Deeds, John F. and White, Walter N., "Water Utilization Report - Big Hole River Basin, Montana," 1925

D-100-6A-12 Statistical reports from the Forest Service regarding stream gaging and ditch evaluations in Montana, 1910-24 [includes some data from 1886]

D-100-6A-13 Deeds, John F. and White, Walter N., "Preliminary report on water supply and its utilization in the Basins of Jefferson, Beaverhead, and Big Hole Rivers, Montana," 1925

D-100-6A-14 Red Rock River, Montana, 1945 [township diagrams]

D-100-6A-15 Soward, Kenneth S., Reconnaissance examination of the Taylor Fork (Eldridge) dam site, Gallatin County, Montana, 1954

D-100-6B-1 U. S. Reclamation Service, Results of Reclamation Work, 1902-11 [printed chart]

D-100-6B-2 Lamb, William A., "Report on Water-power in the Blackfeet Indian Reservation, Teton County," Montana, 1911

D-100-6B-3 Richards, Raymond, Location of power-sites in certain townships in Montana, 1908 [completed forms]

D-100-6B-4 Kramer, Edwin W., Capacities of Madison and Missouri River plants of Montana Power Company and effects of storage in the Hebgen Reservoir on Madison River, 1913

D-100-6B-5 Heron, Kenneth A., "The Valier - Montana Irrigation Project," 1915 [article]

D-100-6B-6 Letters concerning irrigation pumping projects in Prickly Pear Valley, Montana, 1914

D-100-6B-7 Stream Assessments, Montana, n.d.

D-100-6B-8 Savage, Hiram N. and Williams, Charles P., "Sun River Project, Montana, Water Supply" 1912; LaRue, Eugene C., Memorandum concerning irrigation possibilities in the Sun and Teton River Basins, Montana, 1912

D-100-6B-9 Deeds, John F., Memorandum concerning the irrigation of lands under the Marias Sub-project and Blackfeet Project of the Reclamation Service, 1916

D-100-6B-10 Letters concerning the classification of lands under the Spring Valley Unit of the Sun River Project, Montana, 1916

D-100-6B-11 Murphy, Edward C., "Water Utilization in Birch Creek Drainage, Montana," 1916

D-100-6B-12 Murphy, Edward C., "Water Utilization in Teton River Drainage, Montana," 1917; Murphy, Edward C., Memorandum on the Drouth in Montana: Its effects on land classification, 1919; Murphy, Edward C., "Report on Great Falls, HE 1395," Montana, 1918

D-100-6B-13 Murphy, Edward C., The possibilities of irrigation under a large project diverting from the Dearborn River, Montana, 1918

D-100-6B-14 Surface Water of the Blackfeet Indian Reservation, Montana, 1912

D-100-6B-15 Hoyt, John C., Power-site withdrawals on the Missouri River, 1909

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# **The United States Geological Survey: 1879-1989**





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**Inside front cover.** The national domain in 1879

# The United States Geological Survey: 1879 - 1989

By Mary C. Rabbitt

A history of the relation of geology during the first 110 years of the U.S. Geological Survey to the development of public-land, Federal-science, and mapping policies and the development of mineral resources in the United States

# DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, Jr., Secretary

## U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director



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**UNITED STATES GOVERNMENT PRINTING OFFICE: 1989**

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Free on application to the Books and Open-File Reports Section,  
U.S. Geological Survey, Federal Center,  
Box 25425, Denver, CO 80225

### Library of Congress Cataloging in Publication Data

Rabbitt, Mary C.  
The United States Geological Survey, 1879-1989.

(U.S. Geological Survey circular ; 1050)

Bibliography: p.

Supt. of Docs. no.: I 19.4/2:1050

1. Geological Survey (U.S.)-History. 2. Geology-United States-Surveys-  
History. I. Geological Survey (U.S.) II. Title. III. Series.

QE76.R28 1989 353.0085'55 89-600109

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# The United States Geological Survey: 1879-1989

By Mary C. Rabbitt

## INTRODUCTION

The United States Geological Survey was established on March 3, 1879, just a few hours before the mandatory close of the final session of the 45th Congress, when President Rutherford B. Hayes signed the bill appropriating money for sundry civil expenses of the Federal Government for the fiscal year beginning July 1, 1879. The sundry civil expenses bill included a brief section establishing a new agency, the United States Geological Survey, placing it in the Department of the Interior, and charging it with a unique combination of responsibilities: "classification of the public lands, and examination of the geological structure, mineral resources, and products of the national domain."<sup>1</sup> The legislation stemmed from a report of the National Academy of Sciences, which in June 1878 had been asked by Congress to provide a plan for surveying the Territories of the United States that would secure the best possible results at the least possible cost. Its roots, however, went far back into the Nation's history.

The first duty enjoined upon the Geological Survey by the Congress, the classification of the public lands, originated in the Land Ordinance of 1785. The original public lands were the lands west of the Allegheny Mountains claimed by some of the colonies, which became a source of contention in writing the Articles of Confederation until 1781 when the States agreed to cede their western lands to Congress. The extent of the public lands was enormously increased by the Louisiana Purchase in 1803 and later territorial acquisitions.

At the beginning of Confederation, the decision was made not to hold the public lands as a capital asset, but to dispose of them for revenue and to encourage settlement. The Land Ordinance of 1785 provided the method of surveying and a plan for disposal of the lands, but also reserved "one-third part of all gold, silver, lead, and copper mines to be sold or otherwise disposed of, as Congress shall thereafter direct,"<sup>2</sup> thus implicitly requiring classification of the lands into mineral and nonmineral. Mapping of the public lands was begun under the direction of the Surveyor-General, but no special provision was made for classifica-

tion of the public lands, and it thus became the responsibility of the surveyor. There was, of course, no thought in 1785 or for many years thereafter of employing geologists to make the classification of the mineral lands, for geology was then only in its infancy.

By 1879, eight classes of public lands had been recognized, each of which had separate regulations for disposition, but, except in a few cases, no special provision had been made to secure an accurate classification in advance of disposition. Of the mineral lands listed in the 1785 Ordinance, lead lands had been leased for a time and later sold, and copper lands had been sold, but no regulations were made about the lands bearing precious metals until 1866 when they were declared free and open to exploration and purchase. Iron lands, not mentioned in the 1785 Ordinance, were ruled "not mineral lands,"<sup>3</sup> and coal lands, also not mentioned, were offered for sale in 1863. The surveyors were still responsible for classification of the public lands, but, in actual practice, did not make the classification themselves but relied on affidavits from the interested parties.

Neither the public lands nor scientific investigations of any kind were mentioned in the Constitution of the United States, which superseded the Articles of Confederation in 1788. Scientific investigations and the construction of public works were both considered the prerogative or responsibility of the States or private institutions rather than the Federal Government. Of necessity, the Federal viewpoint changed in later years, but even so, the two were frequently treated alike.

Although the military engaged in some scientific activities, Congress did not authorize civilian scientific activities in the Federal Government until 1807 when it established the Coast Survey for the practical purpose of providing better charts of coastal waters and navigational aids for commercial interests. The Coast Survey, however, was unable to get underway until after the end of the War of 1812 and then had only a brief independent life before being transferred to the jurisdiction of the Navy.

In 1810, only 3 years after the Coast Survey was established and long before it got underway, Benjamin Silliman, Professor of Chemistry, Mineralogy, and Natural History at Yale, proposed to the Connecticut Academy of



**Figure 1.** Gentlemen engaged in geological pursuits, 1836.

Sciences that a geological survey be undertaken of part of the national domain, the State of Connecticut. The academy approved the idea but had no funds to carry it out, and another decade passed before a publicly supported geological survey was made.

## **GEOLOGICAL SURVEYS BEFORE THE CIVIL WAR**

The earliest geological surveys were made in support of agriculture, which was the basic occupation in the United States in the early 1800's. Manufacturing was then of importance only in a few areas, and mining was a quite insignificant part of the economy. Farmland in the Eastern and Southern States, however, was beginning to lose its fertility, and farmers were abandoning their holdings and moving westward. The westward migration increased to

enormous proportions after the War of 1812. In the summer of 1820, Stephen Van Rensselaer, president of the Agricultural Society of New York, using funds appropriated by the State Legislature, employed Amos Eaton, who had studied under Silliman at Yale, to make a geological survey of Albany County to aid in the improvement of agriculture. In the following year, Eaton made a geological and agricultural survey of the neighboring Rensselaer County. After two surveys in aid of agriculture, Eaton proposed and obtained approval to make a survey of the district adjoining the Erie Canal, one of a vast number of internal improvements that had been begun to link eastern markets and the newly settled regions beyond the Allegheny Mountains. A year earlier, Denison Olmsted, Professor of Chemistry, Mineralogy, and Geology at the University of North Carolina, also a former student of Professor Silliman, had approached the North Carolina State Board of Internal Improvements with the idea of making a geological and



**Figure 2.** Copper mining in Michigan, 1849.

mineralogical survey of the State, but the General Assembly in North Carolina, to which the Board had referred Olmsted's request, had instead authorized the Board of Agriculture to make such a survey in 1823.

In 1824, as the number and scope of internal improvements increased, Federal policy was changed as a matter of practical necessity. Congress authorized the Army Engineers to make engineering surveys to prepare estimates for roads and canals for national military, commercial, or postal purposes. Science in general, and geology in particular, however, remained almost exclusively the province of the States or private individuals for another decade.

Olmsted's first report, published in 1824, provided the inspiration for establishment of geological surveys on another basis. Olmsted devoted several pages of his report to the gold mines of North Carolina and in 1825 published a paper on the gold deposits in Silliman's *American Journal of Science and Arts*. Gold-bearing rock in place was discovered in North Carolina that very year and later in Virginia, South Carolina, and Georgia as well. The more practical-minded geologists seized upon the gold discoveries in the Southeastern States as a better means of promoting the establishment of geological surveys than either the improvement of agriculture or the need for internal improvements. During the early 1830's, several of the Eastern and Central States established State surveys "to

examine the geological structure, mineral resources, and products"<sup>4</sup> of their part of the national domain.

In 1834, just a year before the Geological Survey of Great Britain was established, Congress authorized the first Federal examination of the geological structure, mineral resources, and products of the public lands by permitting the Topographical Bureau of the U.S. Army to use \$5,000 of its appropriation for geological investigations and the construction of a geological map of the United States. The head of the Bureau, Colonel J.J. Abert, had based his request for funds on the importance of mineral resources, stating that "few subjects connected with the duties of this bureau open so many and so important national advantages, or are adapted to redound more to internal commercial prosperity" as the "development of these great resources of wealth and commercial intercourse, which now lie inert and buried in the bowels of the earth"<sup>5</sup> The geologist employed, however, proved a little too impractical for the Engineers and the survey was discontinued after 2 years.

In 1839, the Federal Government for the first time called on a geologist to classify public lands as Congress made plans to authorize the sale of the mineral lands in the Upper Mississippi Valley. David Dale Owen organized a force that made a survey of 11,000 square miles in a little more than 2 months, which led the Commissioner of the General Land Office to propose that "an officer skilled in the sciences of geology and mineralogy"<sup>6</sup> be appointed to



**Figure 3.** Mapping the region around the Great Salt Lake, 1849.

explore all the public lands and thus enable the Commissioner to discriminate between agricultural and mineral lands before putting them on the market. That idea came to nought, but in 1847, when Congress authorized the sale of mineral lands in the Lake Superior Land District in Michigan and the Chippewa Land District in the Territory of Wisconsin, it specified that geological examinations be made prior to the sale.

The change in the Federal attitude toward geology was part of a change in the Federal view of science in general. The Federal Government was not yet ready to accept science for its own sake but there was a growing realization that certain economic purposes could be aided by science, or, from the perspective of the first Commissioner of Patents in 1836, that the scientific activities of the Government should serve the great economic interests of the country. This same attitude was evident when Congress in 1836 authorized the United States Exploring Expedition, which had the backing of some of the country's most influential scientists, as an aid to commerce. Perhaps of even greater importance for the future of Federal geology was the establishment in 1838 of the Corps of Topographical Engineers to explore and map the continent. Americans were already beginning to feel it was their manifest destiny to overspread and possess the whole continent, and the Topographical Engineers for more than 2 decades provided geologists with opportunities to study the West.

America's manifest destiny was also to become a great industrial nation but that was not so apparent in the 1840's. Coal and iron were the basic elements of industrial development, but toward the end of that decade iron production had begun to decline and the mineral industry, except for coal, began to experience difficulties. The discovery of gold in California on January 24, 1848, altered the situation. In December 1848, President James Polk asked Congress to provide for a geological and mineralogical examination of the region where gold had been discovered and to take steps to preserve the mineral lands, especially those containing the precious metals, for the United States, or to dispose of them in such a manner as to secure a large return of money to the Treasury. The lameduck Congress took no action on these recommendations but in the closing days of the session established a new executive department, the Interior Department, which would include the General Land Office, the Pension Office, the Office of Indian Affairs, and the Census.

The discovery of gold gave great impetus to mining endeavors throughout the country, and this increased activity, combined with the prosperity after the Mexican War, interested several States in the South and the Midwest in establishing State geological surveys. It also made the development of better means of communication and transportation between the Eastern States and the western territories more urgent. In 1853, Congress appropriated \$150,000 for surveys to ascertain the most practical and



**Figure 4.** The Geological Exploration of the Fortieth Parallel (King survey), ca. 1869.

economical route for a railroad from the Mississippi River to the Pacific Ocean and authorized the Secretary of War to employ the Corps of Topographical Engineers to make the explorations and surveys. The Congress also took action on the mineral lands in California, excluding them from the General Land Office surveys, forbidding their preemption or selection by the State, and prohibiting settlement or location on them.

During the 1850's, while the Topographical Engineers explored four routes for the transcontinental railroad, the industrialization of the Nation quickened. In 1859, for the first time, the value of the products of U.S. industry exceeded the value of agricultural products. In that same year, gold was discovered in Colorado, silver was discovered at the Comstock lode in western Nevada to begin the era of silver mining in the West, and the first oil well in the United States was successfully drilled in northwestern Pennsylvania. By that time, the relationship between geological surveys and mineral resources was sufficiently clear that when gold mining in California became difficult and costly, the State Legislature established a Geological Survey, on April 21, 1860, to make an accurate and complete geological survey of the State.

The Civil War had a pronounced effect on science and on the industrial development of the United States. It brought to an end the second era of State surveys--only the California Geological Survey survived. It checked or halted the western mining frontier in some areas but allowed continued expansion in others. The usefulness of science for economic purposes was recognized on May 15, 1862, when the 37th Congress established the Department of Agricul-

ture "to acquire and diffuse \* \* \* useful information on subjects connected with agriculture" and for the first time authorized "practical and scientific experiments"<sup>7</sup> to obtain this information. The industrialization advanced significantly during the war. At the start of the war, American iron fabrication was inferior to that of Europe, but A.S. Hewitt of Cooper Hewitt iron manufacturers went to England in 1862 and learned the secret of the British process so well that in 1863 the Secretary of War boasted that American iron was superior to that obtained abroad. Alexander Holley, an American metallurgist, also visited England in 1862 and obtained the American rights to the Bessemer process for making steel; in 1865, he began to produce steel by that process in the United States.

## THE FOUR GREAT SURVEYS OF THE WEST

By 1867, the developing industries were making radical demands on the Nation's natural resources. Joseph S. Wilson, the Commissioner of the General Land Office, in his annual report written in the fall of 1866, assessed at some length the mineral resources of the public domain, and afterward stated that the proper development of the geological characteristics and mineral wealth of the country was a matter of the highest concern to the American people. On March 2, 1867, Congress for the first time authorized western explorations in which geology would be the principal objective: a study of the geology and natural resources along the fortieth parallel route of the transcontinental



**Figure 5.** Clarence King exploring an active glacier on Mount Shasta, 1870.

railroad, under the Corps of Engineers, and a geological survey of the natural resources of the new State of Nebraska, under the direction of the General Land Office. Looking back at that day's work in 1880, Clarence King, Director of the U.S. Geological Survey, remarked that "Eighteen sixty-seven marks, in the history of national geological work, a turning point, when the science ceased to be dragged in the dust of rapid exploration and took a commanding position in the professional work of the country."<sup>8</sup>

King was only 25 and 5 years out of Yale, where he had been a member of the first class to graduate from the Sheffield Scientific School, when he was appointed Geologist in charge of the Geological Exploration of the Fortieth Parallel. He had been a member of the Geological Survey of California when he conceived the idea of a geological survey along the route of the railroad then being built, had then interested the Engineers in the plan and secured their endorsement and that of the War Department, exhibiting political as well as scientific acumen. The Chief of Engineers told King he could expect to receive \$100,000 to finance the work for 3 years and was authorized to engage two assistant geologists, three topographic aides, two col-

lectors, a photographer, and necessary camp men. King chose as assistants well-trained young men, the geologists with graduate education in Europe, and planned the work in detail before taking the field.

Ferdinand V. Hayden, M.D., who had already established a reputation as a master of reconnaissance in the Upper Missouri country, was placed in charge of the survey of Nebraska, for which only \$5,000 was available. Hayden, 38, was a graduate of Oberlin College in Ohio and Albany Medical College. Except during the Civil War years, Hayden had been enthusiastically exploring the northern Great Plains region since 1853 when James Hall, the New York State Geologist, had sent him and Fielding B. Meek west to study the geology and collect fossils. In 1856 and 1857, Hayden had accompanied expeditions led by Lieutenant G.K. Warren and in 1859, the expedition led by Captain W.F. Reynolds, both of the Topographical Engineers.

Both the King and the Hayden surveys were successful. In 1870, the King survey, without solicitation, received additional funds for another 3 years in the field. The Hayden survey received additional appropriations in 1868 and 1869 for exploration in Wyoming and Colorado, and in



**Figure 6.** The Hayden survey in the Yellowstone area, 1871.

1869 was placed directly under the Secretary of the Interior. In 1870, Hayden presented to Congress a plan for the geological and geographical exploration of the Territories of the United States that looked forward to the gradual preparation of a series of geographical and geological maps of each of the territories on a uniform scale. With Congressional blessing the Hayden survey then became the Geological and Geographical Survey of the Territories under the Department of the Interior.

By that time two additional surveys had taken the field. On May 24, 1869, John Wesley Powell, Professor of Geology at Illinois State Normal University, and a party of nine men left Green River, Wyoming, in three small boats to explore the unknown canyonlands to the south and west. Powell's expedition was privately sponsored--its only public support an authorization to draw Army rations--and the members of the expedition were a mixed crew of nonprofessionals.

Powell, 35, was the son of an itinerant Methodist preacher. His formal schooling had ceased when he was 12, and his life thereafter had been spent in farming, studying, teaching, and exploring the Midwest until the outbreak of the Civil War. He enlisted in the Union Army in May 1861 and remained in the service until the war was over. After the war, Powell became professor of geology at Illinois Wesleyan University and then at Illinois State Normal University. In 1867 and 1868, he explored the Rocky Mountains in Colorado and eastern Utah and became convinced that the unknown canyonlands to the southwest could best be explored in boats. In a trip fraught with hardships, Powell

and five of the nine original members of the crew completed a journey down the Green River to the Colorado and through the Grand Canyon on August 13, 1869. In 1870, Professor Powell received an appropriation of \$10,000 from Congress to make a second trip down the Colorado, being required only to report his results to the Smithsonian Institution. On June 10, 1872, Congress appropriated another \$20,000 for completion of the survey.

The second new exploration in 1869 was led by Lieutenant George Wheeler, Engineer Officer on the staff of the Commanding General of the Army's Department of California (which covered California, Nevada, and Arizona). Wheeler, not quite 27, was a graduate of West Point in 1866 where he had ranked sixth in his class and won a commission in the elite Corps of Engineers. By 1869, exploration of the Colorado River and location of north-south routes across the Great Basin had become the most important projects of the Division of the Pacific, but when the Army learned of Powell's planned expedition, exploration of the Colorado was postponed.

In early June 1869, Lieutenant Wheeler received orders to organize and equip a party to make a thorough and careful reconnaissance of the country south and east of White Pine, Nevada, as far as the head of navigation on the Colorado, to obtain data for a military map and to survey the possibility of a wagon road and select sites for military posts. In 1871, the Engineers sent Lt. Wheeler to explore and map the area south of the Central Pacific Railroad in eastern Nevada and Arizona.



**Figure 7.** The Powell survey on its second trip down the Colorado River, 1871.

On his return from the 1871 expedition, Wheeler, convinced that the day of the pathfinder had ended, proposed a plan for mapping the United States west of the 100th meridian on a scale of 8 miles to the inch, expected to cost \$2.5 million and take 15 years. Congress authorized the program on June 10, 1872, the day on which funds were appropriated for completion of the Powell survey. Hayden that year was given \$75,000 for his Geological and Geographical Survey of the Territories.

Inevitably, conflicts developed between the Hayden survey, mapping the Territories of the United States, and the Wheeler survey, mapping the areas west of the 100th meridian. In 1874, Congress was provoked to a thorough discussion of civilian versus military control of mapping. In the testimony heard by the Congressional committee, much of it on the purposes and efficiency of the mapping, Powell credited King's Fortieth Parallel survey with the most advanced techniques, which Hayden and he had later adopted. In the end Congress concluded that each survey had been doing excellent work for the benefit of the people and that there was sufficient work for both the Interior Department and the War Department for years to come. The Secretary of the Smithsonian Institution had requested an additional appropriation for the Powell survey, which Congress granted but transferred the survey to the Department of the Interior, where it was at first called the second division of the Geological and Geographical Survey of the Territories. Later, because of tension between Powell and Hayden, the Powell survey became known as the Geographical and Geological Survey of the Rocky Mountain Region.

### **ESTABLISHMENT OF THE U.S. GEOLOGICAL SURVEY**

Deterioration of the economy led to another consideration of the problem of mapping the West in 1878. The King survey had by this time completed its reports, but the Hayden, Powell, and Wheeler surveys were still in the field. This time Congress turned to the National Academy of Sciences and asked it to recommend a plan for surveying and mapping the Territories of the United States that would secure the best possible results at the least possible cost. A committee of seven members appointed by the Academy recommended that the Coast and Geodetic Survey be transferred from the Department of the Treasury to the Department of the Interior, renamed the "Coast and Interior Survey," and be given responsibility for geodetic, topographic, and land-parceling surveys in addition to its existing work. The Academy committee also recommended that an independent organization, to be called the U.S. Geological Survey, be established in the Interior Department to study the geological structure and economic resources of the public domain.

Legislation to rename the Coast and Geodetic Survey and transfer it to the Department of the Interior and to establish the U.S. Geological Survey for "classification of the public lands, and examination of the geological structure, mineral resources, and products of the national domain"<sup>9</sup> was included in the bill appropriating funds for the legislative, executive, and judicial expenses of the Federal Government for the fiscal year beginning July 1,

18

Amendment numbered 90, 91, 92 & 93,

That the House recede from its disagreement to the amendments of the Senate numbered 90 - 91 - 92 - and 93,

and agreed to the same with amendments, as follows

In lieu of the entire paragraph insert the following -

For the salary of the Director of the Geological Survey,  
~~Under the Interior Department~~  
which office is hereby established, who shall be appointed  
by the President by and with the advice and consent of the  
Senate, six thousand dollars: *Provided*, That this officer  
shall have the direction of the Geological Survey, and the  
classification of the public lands and examination of the  
geological structure, mineral resources, and products of the  
national domain, and that the Director and members of the Geo-  
logical Survey shall have no personal or private interests in  
the lands or mineral wealth of the region under survey,  
and shall execute no surveys or examinations for private  
parties or corporations; and the Geological and Geographical  
Survey of the Territories, and the Geographical and Geo-  
logical Survey of the Rocky Mountain Region, under the  
Department of the Interior, and the Geographical Surveys  
West of the One hundredth Meridian, under the War Depart-  
ment, are hereby discontinued, to take effect on the thirtieth

Figure 8. The Conference Committee copy of the law establishing the U.S. Geological Survey, 1879.

1879. An appropriation for the expenses of the new national geological survey was included in the sundry civil expenses bill.

The transfer of the land-parceling surveys to a Coast and Interior Survey aroused strong opposition among Congressmen from Western States, and the bill was amended to exclude the public-land surveys from the work of the Coast and Interior Survey. There were few objections to the Geological Survey, and Congressman A.S. Hewitt of New York, who had initiated the Academy study, spoke most eloquently about the value of the study of mineral resources to the future development and prosperity of the Nation. The bill was then passed and sent to the Senate.

The Senate took up the sundry civil expenses bill first, and amended the item for the expenses of the geological survey so that it became \$100,000 for the Geological and Geographical Survey of the Territories, in other words, the Hayden survey. The bill then went to a conference committee to iron out the differences between the two houses. The Senate voted to delete the entire section on the reorganization of the surveys from the legislative, executive, and judicial expenses bill, making the Senate action a clear triumph for Hayden, and sent it to conference.

The Democratic House and Republican Senate were far apart on some items in the bill, unrelated to the Survey legislation, and it became evident that agreement could not be reached before adjournment. The Senate and House conferees on the sundry civil bill, among them Hewitt, then agreed to combine into one item the sections in the House version of the legislative bill establishing the geological survey and the House version of the appropriation for the expenses of the U.S. Geological Survey. Thus the U.S. Geological Survey was established, by a last-minute amendment, to classify the public lands--94 years after the Land Ordinance of 1785 first directed their surveying and classification--and to examine the geological structure, mineral resources, and products of the national domain. The legislation also provided that the Hayden, Powell, and Wheeler surveys be discontinued as of June 30, 1879. Congress also established a public lands commission, of which the Director of the U. S. Geological Survey would be a member, to prepare a codification of laws relating to the survey and disposition of the public domain, a system and standard of classification of public lands, a system of land-parceling surveys adapted to the economic use of the several classes of lands, and recommendations for disposal of the public lands in the western portion of the United States to actual settlers.

## ORGANIZING THE U.S. GEOLOGICAL SURVEY

Hayden, who had been directing geological surveys in the Department of the Interior for a dozen years, was the obvious candidate to be director of the new national survey,

but a small group that considered Clarence King better qualified undertook to secure the appointment for him. On March 20, 1879, President Hayes sent to the Senate the nomination of Clarence King to be the first Director of the U.S. Geological Survey. The Senate confirmed the nomination on April 3, and King took the oath of office on May 24. The Fortieth Parallel Exploration under King's direction had led the way in converting western exploration to an exact science. His new position gave him a unique opportunity to influence the development of Federal geology.

The first duty enjoined on the Geological Survey was the "classification of the public lands."<sup>10</sup> In the year that the Geological Survey was established, the Federal Government still held title to more than 1.2 billion acres of land, nearly all of it west of the Mississippi River, of which only 200 million had been surveyed. The edge of settlement was at about 102° West; beyond the frontier were only isolated pockets or belts of settlement, and in vast areas beyond the frontier, the population was officially less than 1 per square mile.

Nearly all the public lands were within the arid region as defined by John Wesley Powell in his 1878 "Report on the Lands of the Arid Region of the United States." Water was the region's most precious resource, but Powell had pointed out that very little of the remaining public land was suitable for conventional farming and that only a small



Figure 9. Clarence King, Director of the U.S. Geological Survey, 1879-1881.

fraction of the arid land was irrigable. He then proposed radical changes in the land system, including organization of irrigation and pasturage districts, which suggested that water was more of a sociopolitical than a scientific problem.

Many of the isolated small pockets or belts west of the frontier owed their initial and some their continued existence to miners or prospectors, but the larger and more profitable mining industry was in the States east of the 100th meridian--Pennsylvania was the leading mining State in the Nation. Just eight commodities--gold, silver, iron, coal, copper, lead, zinc, and petroleum--accounted for nearly 99 percent of the value of the mineral production in the United States; the greater part of the precious metals and lead came from the area west of the 100th meridian, but the rest came from the States east of that line.

The very brief enabling legislation did not define in detail the duties of the new organization, thus leaving much to the Director's judgment. King concluded that the Geological Survey's classification of the public lands, especially as Congress had made no change in the General Land Office, was not meant to supersede the classification made by the Land Office as a basis for granting title, and the Public Lands Commission agreed. To meet the requirement for classification, King therefore planned a series of land maps to provide information for agriculturists, miners, engineers, timbermen, and political economists.

The duty of examining the geologic structure, mineral resources, and products of the national domain offered many possibilities. The year in which the Survey was established, however, was one of great monetary uncertainty, when knowledge of precious-metal resources was vital, and one in which the iron and steel industry faced problems in obtaining suitable raw materials, while information about the Nation's mineral wealth, mining and metallurgical techniques, and production statistics was meager. For the Survey's initial program of work, therefore, King chose to emphasize mining geology, to devote but a small effort to general geology, and to confine paleontology and topographic mapping to what was necessary to support the geologic studies. Although King in so doing emphasized practical studies at the expense of basic studies, he nonetheless expected that the facts gathered in the mining-geology studies would lead to advances in basic science.

The term "national domain" in the organic act provided a problem. The framers of the law had used the term to mean all lands within the national boundaries without having to name all the States and Territories, but an Interior Department attorney ruled that it meant the lands to which the Government had not parted title, that is, the public lands. The literal interpretation of that ruling would preclude work in a mining district where most of the land had become private property. King asked Congress to clarify the meaning, and the House promptly extended the field of the Geological Survey to the entire Nation but Congress adjourned before the Senate acted. For the first year,

therefore, King decided to confine operations to the public-land regions though not to the public lands.

## THE FIRST QUARTER-CENTURY

King, in consultation with Secretary of the Interior Carl Schurz, established the qualifications for appointment to the new Survey and the salaries. Applicants for appointment to the Division of Mining Geology were expected to have a good working knowledge of mathematics, mechanics, mining geology, chemistry, metallurgy, and the mineralogy of economic products, evidence of which could be furnished by university degrees, the testimony of experts in the required branches, or a written examination. For appointment to the Division of General Geology, applicants were expected to furnish equivalent evidence of a working knowledge of mathematics, physics, chemistry, geology, and mineralogy. In July 1879, S.F. Emmons and Arnold Hague of the King survey, G.K. Gilbert of the Wheeler and later the Powell survey, F.V. Hayden, and Raphael Pumpelly, who had been Sturgis-Hooper Professor of Geology at Harvard and State Geologist of Michigan and Missouri, were appointed geologists at \$4,000 a year. George F. Becker, instructor in mining and metallurgy at the University of California, was appointed a geologist at \$2,500 a year. Appointed as topographers were A.D. Wilson and F.A. Clark of the King survey, and Sumner Bodfish and John H. Renshaw of the Powell survey. Pumpelly headed the Mining Geology Division, and John Wesley Powell served informally as head of the General Geology Division but drew his salary from the Bureau of Ethnology of the Smithsonian Institution.

The mining geology program began in 1879 with comprehensive studies of the geology and technology of three great mining districts--Leadville in Colorado and the Comstock and Eureka in Nevada--and the collection of mineral statistics in the Western States. In addition, through a cooperative arrangement with the Tenth Census, mineral statistics were collected in the Eastern States, iron resources in all parts of the country were systematically studied in the field and in the laboratory by a variety of techniques, including microscopic analysis, chemical analysis, and magnetic observations, and an effort was made to trace the continuation of the copper-bearing rocks of Michigan and Wisconsin through northeast Minnesota to the Canadian boundary. The investigations in general geology included the unfinished studies of the earlier surveys in the Colorado Plateau region, on the Quaternary history of valleys in Utah, and on the geology of the Rocky Mountain region north of New Mexico and west of the 94th meridian.

In his first annual report, King promised 12 volumes on "practical and general geology and paleontology."<sup>11</sup> Some were published as part of the Tenth Census reports,



**Figure 10.** Leadville, Colorado, mining district, subject of an early mining-geology study, 1879

including the mineral statistics that provided the first comprehensive study of the Nation's mineral resources, others as monographs of the U. S. Geological Survey.

King resigned as Director in March 1881. He had not planned to stay beyond the time necessary to organize the work, and when James Garfield became President King realized that he would no longer have the support of his good friend, Secretary of the Interior Carl Schurz, whose views on political reform, including a merit-based civil service system, he shared. Despite his short tenure, King had such a profound influence on the organization and mode of operation of the Survey that decades later his imprint was still clearly evident and can be recognized even to this day.

King's choice to succeed him was John Wesley Powell, who was almost King's antithesis in background, education, and experience. Both men had wide-ranging scientific interests but King's centered on mathematics and geophysics, and Powell's tended toward natural history and anthropology. In geology, which Powell considered part of geography, he was primarily concerned with landforms and land use.

King and Powell also differed greatly in their philosophies of administration, which King apparently did not realize when he resigned. King had given the work of the Geological Survey a mission orientation, planned the goals,

and selected the staff, but given them freedom to choose their methods of work in order to achieve the goals. Powell allowed the staff to choose not only their methods of work but the subjects they would investigate as well. That alone meant an immediate change in the Geological Survey's program. In addition, because Powell looked on geology and topography as independent although closely related parts of the greater field of geography, he made the topographic work of the Geological Survey independent of geologic studies as soon as he became Director. Powell also retained direction of the Bureau of Ethnology and simply merged the work of the two organizations.

In 1882, Powell obtained authorization from Congress "to continue the preparation of a geologic map of the United States,"<sup>12</sup> which implicitly extended the work of the Survey to the Eastern States without explicitly clarifying the public lands-national domain question. Powell then redirected all topographic work toward preparation of the geologic map and began topographic mapping to provide a base for the geologic map in Eastern as well as Western States. Topographic mapping became the largest part of the Geological Survey program. Paleontologic and stratigraphic studies to support the geologic mapping program were also begun throughout the country. Mining geology, however, was restricted to the Western States-Powell insisted that



**Figure 11.** Shorelines of ancient Lake Bonneville, subject of an early general-geology study, 1879.

no authorization had been obtained for mining geology in the Eastern States--and had insufficient funds for field work.

During Powell's first 3 years as Director, the Survey prospered, and its appropriations grew steadily, amounting to \$386,000 for the fiscal year beginning July 1, 1884. By that time, King's simple organization of the Survey into Mining Geology and General Geology had been transformed. General geology, initially described by Powell as structural geology and paleontology, became five divisions of geology and five of paleontology. The chemical laboratory, mining statistics, preparation of illustrations, and the library were "accessory"<sup>13</sup> divisions. Without benefit of formal organization, the Geological Survey was also investigating the irrigation of the arid lands, the relief from floods that would be afforded the lower valley of the Mississippi by utilizing waters from the Rocky Mountains for irrigation, and the geographic distribution of the great forest areas.

The appropriations act for the fiscal year beginning July 1, 1884, however, also included provisions for two Congressional investigations: one by the Joint Committee on Public Printing aimed at reducing the cost of public printing, especially the cost of scientific publications, which had become a matter of some concern; the other an

investigation of the organizations of the Signal Service, Geological Survey, Coast and Geodetic Survey, and the Hydrographic Office of the Navy, to secure greater efficiency and economy of administration of the public service among them. The latter investigation was ostensibly a general one but was actually a combination of two investigations, one of the Signal Service and the other an attempt to save the Coast and Geodetic Survey from the encroachment on its functions by the Geological Survey, with its newly extended topographic mapping program, and the Hydrographic Office. Common to both was the old argument of civilian versus military control of science.

The National Academy of Sciences, again called on for advice, recommended that all the scientific work of the Government be concentrated in four bureaus, organized on the basis of scientific discipline, and that the four should preferably form a separate Department of Science or at least be in one executive department. Others expressed the opinion that scientific work should be conducted in and directed by the department that needed scientific assistance, and still others held that the scientific work of the Federal Government should be severely limited in scope.

The lameduck Congress that met in December 1884 had to face serious economic problems and a mandatory close on March 4, 1885. The Joint Committee on Public



**Figure 12.** John Wesley Powell, Director of the U.S. Geological Survey, 1881-1894.

Printing decided to leave to the new Congress the task of drafting a bill to reduce the cost of public printing. The Commission on the Organization of the Scientific Work of the Government held hearings, then obtained authorization to continue the hearings when the new Congress convened, and in 1886, presented a divided report. The majority recommended no changes in the organization of the existing bureaus and, with respect to the Survey, noted that on the basis of the current annual appropriation it would require 30 years to complete the geological survey of the whole country but thought the rapidity with which the work was done could be left to Congress to determine through the amount of the appropriation. The minority called for restriction of paleontology to the collection, classification, and proper care of fossils, and for prohibition of general discussions of geologic theories and of the publication of anything except an annual report of operations. In the next session of Congress, the Geological Survey was directed henceforth to present itemized estimates in requesting funds so Congress could control expenditures, and the amount the Public Printer was authorized to spend on Geological Survey publications was drastically reduced.

More trouble for the Geological Survey was already developing on another front. A few months after becoming Director, Powell had submitted a report to the second

session of the International Congress of Geologists in which he attempted to establish rules "adopted"<sup>14</sup> in the Geological Survey as the American norm for stratigraphic nomenclature and cartographic representation. Only one American geologist attended the Congress, which voted to adopt other terms largely of European derivation. Following the 1885 Congress, however, the American Committee met and voted to adopt the decisions of the International Congress and to recommend their acceptance by American geologists. American opinion on stratigraphic nomenclature was divided, as became clear in meetings held in 1887, but the American Committee sent its reports to the 1888 International Congress without prior distribution in the United States, arousing considerable protest. In August 1888, American geologists voted to form an American geological society and the first meeting of the Geological Society of America was held on December 27, 1888. Three weeks before the Geological Society held its initial meeting, Powell convened a conference of Federal geologists on "geologic taxonomy and nomenclature" with the claim that "the range of conception concerning geologic principles and methods among the Federal geologists has become an epitome of the geologic opinion of the earth."<sup>15</sup>

Powell was temporarily diverted from the geologic map and stratigraphic nomenclature by a change in climate in 1886. During the 1870's and early 1880's, great numbers of people had settled on the Great Plains, and would-be farmers came into competition with cattlemen for water and land. The drought of 1886 and the severe winter that followed compounded the difficulties. In October 1888, Congress authorized a survey to investigate the extent to which the arid region of the United States could be redeemed by irrigation, to segregate the irrigable lands, and to select sites for reservoirs and other hydraulic works for the dual purpose of storage and utilization of water for irrigation and prevention of floods and overflows. To prevent speculation, Congress then stipulated that all lands that might be irrigated by the reservoirs and canals to be located by the surveys be withdrawn from entry.

In his arid lands report of 1878, Powell had defined the arid region as the region where rainfall was less than 20 inches a year, and so most of the area west of the 100th meridian was in his arid region. Between the arid region of the West and the humid region of the East was a region, which Powell called the subhumid region, where rainfall was 20 to 28 inches a year. Most of the farmers who had been hurt by the change in the weather were in the subhumid region or the eastern edge of the arid region.

Given the opportunity he had so long awaited to attack the problem of the arid lands, Powell planned first topographic surveys to plot catchment basins, then a hydrographic survey to measure streamflow, and finally an engineering survey to determine the feasibility of construction. The topographic mapping was begun in October 1888, immediately after passage of the Appropriation Act, as an



**Figure 13.** An early method of stream gaging, 1890.

expansion of the regular topographic mapping program in Colorado and areas to the west. The stream-gaging and engineering surveys had to wait upon the training of hydrographers and the recruitment of engineering personnel and did not get underway until 1889. Men experienced in stream-gaging methods and instruments were scarce, so 14 young men were chosen and placed in an instruction camp at Embudo, New Mexico, under the direction of F.H. Newboud, a 26-year-old engineer who had graduated from the Massachusetts Institute of Technology in 1885.

The Irrigation Survey was discontinued in 1890. Congress was impatient for results, but Powell insisted that all the facts had to be determined before any recommendations could be made. In May 1890, the Acting Attorney General ruled that all irrigable lands had been withdrawn from entry on October 2, 1888, and as no one knew which lands were irrigable until the Survey certified them, all claims filed after that date had to be invalidated. The public domain was in fact closed to entry, a situation which advocates of western development did not want at any cost. To complicate the situation, six new States had been admitted in 1889 and 1890, some wholly, some partly in the arid region, and their dowry lands, the public lands ceded by Congress to new States from which they would derive their taxes, were also withheld. In the summer of 1890, Congress repealed the provision for withdrawal of lands except those selected as reservoir sites and provided no further funds for the Irrigation Survey.

The demise of the Irrigation Survey was the first serious setback; another followed 2 years later. The year in which the Irrigation Survey was discontinued was one of



**Figure 14.** *Olenellus*, a genus of trilobites that C.D. Walcott found marked the lowest zone of the Cambrian, 1890.

almost universal national discontent in the United States. Farmer and labor organizations began to join together with other protest groups to achieve their common objectives. The monetary situation was precarious. Production of gold had been declining for many years while the production of silver had steadily increased and its market price as steadily declined. In 1890, the silver and inflationist forces in the Senate, reinforced by the Senators from the recently admitted States of North and South Dakota, Montana, Washington, Idaho, and Wyoming, succeeded in passing a bill for free and unlimited coinage of silver. The House blocked that bill, but a compromise bill passed in July 1890 required the Treasury to purchase 4,500,000 ounces of silver each month (the estimated total U.S. production) at the prevailing market price and to issue in payment legal-tender Treasury notes redeemable in gold or silver at the option of the Treasury. The effect was an increase in the circulation of redeemable paper currency and a weakening of the Federal gold reserve, creating a fear that the silver inflation might take the country off the gold standard. A new

downward spiral of commodity prices began in 1891 and for the first time in 20 years the Treasury announced an impending deficit.

At this critical point in its history, the Geological Survey was out of favor with Congress, with many American geologists, who felt that it had too often acted unilaterally, and with some elements of the mining industry, who felt that economic geology was being neglected. In a mood for economy, Congress in 1892 slashed appropriations for scientific agencies, especially those items which seemed to have little immediate practical purpose. The Geological Survey's appropriations for geologic surveys, paleontology, and chemistry and physics were drastically reduced, and several statutory positions were eliminated. Only the appropriation for the report on mineral resources went unscathed, although the appropriation for topographic surveys was cut only a little. The Senate then appointed a Select Committee to "investigate the operations of the United States Geological Survey, the efficiency and utility of such a survey, together with the progress made and economy observed in this work."<sup>16</sup>

The congressional action was clearly aimed at Powell and his administration of the Geological Survey, and the reasons for it were equally clear. The principal reason was that Survey science was not serving the great economic interests of the country although the all-encompassing nature of the Survey work or resentment of Powell's ideas of land reform and the closing of the public domain during the Irrigation Survey, to which some historians have attributed the action, may have played a part. In particular, Senators from the mining States in the West, which were also States in the arid region, wanted economic geology restored to the preeminent position it had had under King, and members of Congress in the South and East wanted economic geology investigations in their region. A few powerful Senators in fact wanted to force Powell's resignation and to restore King to the directorship.

Powell continued to occupy the position of Director until June 30, 1894, but his control of the Survey's geologic work came to an end in August 1892. Charles D. Walcott gradually took charge, first on an emergency basis when Powell was absent from the office for several months, then with administrative responsibilities delegated by Powell. On July 1, 1893, the Secretary of the Interior appointed Walcott Geologist-in-Charge of Geology and Paleontology. In the spring of 1894, Powell told the House Committee on Agriculture, then considering legislation to transfer the Geological Survey from the Department of the Interior to the Department of Agriculture, that although the Geological Survey when it was organized was supposed to be concerned principally with mines and mining, the bulk of its operations were now concerned with agriculture. The Secretary of the Interior requested a cut in Powell's salary, a device used by the administration to embarrass officials and force their resignation, and Powell submitted his resignation

in May 1894. The Secretary of the Interior promptly recommended to President Grover Cleveland the appointment of Walcott as the third Director of the U. S. Geological Survey.

Walcott was not an obvious choice for the position in view of the congressional desire for more emphasis on economic geology. He was a man of unusual administrative and scientific ability, but, although he had already established an international reputation in what he chose to call paleontologic geology, as late as 1890 he was one of the lower paid paleontologists and in 1892 had been on the verge of leaving the Survey to become a professor at the University of Chicago. Walcott, however, had been one of King's early appointees, as an assistant geologist at \$600 a year, and had been part of the group that worked with King in New York after King's resignation as Director. Walcott understood the difficulties the Geological Survey faced and the steps that had to be taken. In fact, in the request for funds that was sent to Congress in December 1892, the purpose for which the geologic surveys were to be made was changed from "preparation of the geologic map"<sup>17</sup> to "locating and representing by maps, sections, and reports,"<sup>18</sup> the various mineral resources known or believed to exist in 17 different areas, including those in the Eastern States.

Walcott's appointment was greeted with cautious approval by geologists but more or less ignored by the mining fraternity, although King assured them of his administrative ability. Walcott revived the mission orientation of the Geological Survey as outlined by King in 1879 but broadened the mission beyond that envisioned by King. The Survey would aid not just the mineral industry but all industries—in fact any practical objective that could be aided by a knowledge of geology. It would not, however, be limited to practical geology but would undertake basic research whenever research was necessary in the solution of a geologic problem.

Walcott abolished all organizational units within the Geologic Branch and assumed direct control of the work. Mining geology studies were resumed and extended into the Eastern States, and in view of the gold crisis, an intensive study of gold deposits, including exploration for new sources, was begun. The deposits at Cripple Creek, Colorado, a little-understood telluride ore, were studied, as were those at Mercur, Utah, which had become usable through development of the cyanidation process. Studies of gold deposits in Alaska began in 1895. By 1900, the value of gold produced annually in the United States was more than twice what it had been in 1890, and the United States adopted the gold standard as its monetary base. The mining-district studies were not restricted to gold but were also undertaken in the iron districts of Michigan and Minnesota and the copper districts of Montana, Utah, and Arizona. Nor were they held to practical matters only. By 1900, the ideas on the classification and genesis of ores,



Figure 15. A geological party on its way to map the Cripple Creek mining district, Colorado, 1893.



**Figure 16.** Charles Doolittle Walcott, Director of the U.S. Geological Survey, 1894-1907.

which King had hoped would come from the mining-geology program, were matters of intense discussion; papers on these topics at the meeting of the American Institute of Mining Engineers in 1901 became landmarks in the history of geology.

Basic science was an integral part of the Geologic Branch program. Fundamental studies were made in the genesis of ore deposits, in paleontology and stratigraphy, in glacial geology, and in petrography. The geologic time scale was revised, new definitions for rock classes were developed, and the first geologic folios were published.

Geology was also extended to include the study of water. In 1894, a small appropriation was obtained for the purpose of "gauging the streams and determining the water supply of the United States."<sup>19</sup> Streamflow measurements begun during the Irrigation Survey had been continued in a modest way as part of the topographic mapping program after the Irrigation Survey was discontinued in 1890. With the new appropriation, work was expanded. In 1895, the work was transferred to the Geologic Branch, and studies of underground water and water utilization were gradually added to the stream gaging. Appropriations were increased regularly, and in 1896 a new series of publications was inaugurated to make available the ever-increasing volume of information. The Irrigation Congress that met in Phoenix in December 1896 reversed the opinions of earlier congresses with regard to the Geological Survey's role in public-land management by recommending establishment of a Public Lands Commission, including the Director of the Geological Survey as a member, to be responsible for



**Figure 17.** Bench marks, showing elevations above sea level, greatly enhanced the value of topographic maps, 1896.



**Figure 18.** Pollution of the Potomac River by industrial wastes such as sawdust and tannery products was recognized by Survey hydrographers, 1897.

preparing a topographic map, determining the water supply, ascertaining the character and value of the timber, and making regulations for the occupation and utilization of the public lands.

The development of the topographic work followed a similar pattern. Before Walcott became Director, the work of the Topographic Branch of the Survey had been criticized by many who considered the extensive program inappropriate for a geological survey and more properly part of another organization, but at the beginning of his directorate Walcott simply announced that topographic map quality would be improved. Within a few months, the topographic corps was placed under Civil Service, thus eliminating some of the difficulties of the Powell era when many with inadequate or no training, including congressional relatives, had been employed. A practical demonstration was made of the advantages of combining topographic surveys and the subdivisional surveys of the General Land Office in Indian Territory. The value of topographic maps for practical purposes was greatly increased by the placement of permanent bench marks showing the exact location and elevation of fixed points.

By 1897, Walcott had regained the confidence of Congress. The Forest Management Act that year placed management of the forest reserves in the Department of the Interior and required that surveys of the "public lands that have been or may be designated forest reserves"<sup>20</sup> be made



**Figure 19.** A geologist examining an asphalt well in Cuba after the Spanish-American War, 1900.

under the supervision of the Director of the Geological Survey. Survey topographers within the next 3 years mapped more than 32,000 square miles in and adjacent to the reserves, even though most were in wilderness areas. At the same time, a program of topographic mapping on the larger scales needed for more urbanized areas was steadily growing in cooperation with the Eastern States.

In the late 1890's, geologic work was extended into new fields and went beyond the national domain. In 1897, a Survey geologist and a hydrographer were detailed to the Nicaraguan Canal Commission to study the proposed canal route between the Atlantic and Pacific Oceans. The Commission made extensive use of their findings, marking perhaps the first time on this continent that geological evidence provided support for a great engineering project. After the Spanish-American War in 1898, Survey geologists were sent to investigate the mineral resources of Cuba and the Philippine Islands.

In 1897, a Senate resolution called for a three-man commission, including the Director of the Geological Survey, "to determine the best method of ascertaining all the facts of general importance relating to mines and mining within the United States, whether by a mining bureau, a Secretary of Mines and Mining, a Commissioner of Mines, or a commission."<sup>21</sup> In December 1898, a Senate resolution called for a Division of Mines and Mining in the Geological

Survey to gather statistics on mineral resources and mineral production and to make investigations related to mines and mining. Walcott agreed that the mining interests should be represented in the organization of the Government and that establishing such a division would care for the interests of the mining industry. He added that, in addition to precious-metal investigations, studies should be undertaken of coal, coke, petroleum, asphalts, building stones, and clays.

In 1900, a bill for establishment of a Department of Mines with the Survey as a nucleus was tiled but not acted on. However, when Congress appropriated for the Survey 110 percent of the amount it had requested, the Geologic Branch was reorganized, and a Division of Mining and Mineral Resources was established.

The reorganization of the Geologic Branch on July 1, 1900, was an experiment designed to separate scientific and administrative control. Seven divisions were established, covering specified subject areas, each in charge of a specialist who would prepare plans of work, establish priorities, recommend geologists to undertake particular projects, and review manuscripts. Party chiefs would plan the conduct of the work. The Director would approve plans and make allotments. In essence, it was King's plan of 1879 adapted to a larger organization.

In his presidential address to the Geological Society of America in December 1900, Walcott foresaw that the "standards of the future will be progressively higher and higher, and the scope of routine investigations will become broader. As geologic science progresses, and as new uses are discovered for mineral resources, it will become necessary to increase the number of classes of facts to be covered by areal surveys. \* \* \* Every investigation undertaken to solve some geologic problem, whether it prove successful or not, is sure to develop other problems, and the geologic Alexander will never lack worlds to conquer."<sup>22</sup>

At the time, Federal science was clearly enjoying a new but somewhat hazardous status. While becoming more involved in the economic life of the Nation, it was at the same time tending more and more toward the practical, so Washington scientists were seeking private funds to support basic research. In May 1901, the Board of Trustees of the Washington Memorial Association, of which Walcott was president, was incorporated "to promote science and literature; to provide opportunities and facilities for higher learning, and to facilitate the utilization of the scientific and other resources of the government for purposes of research and higher education,"<sup>23</sup> and a plan for a nongovernmental institution to promote the study of science and liberal arts in Washington was developed. The trustees conferred with Andrew Carnegie, who agreed to endow the Carnegie Institution of Washington for the purpose of "extending human knowledge by original investigations and research."<sup>24</sup> The trustees of the new institution, of which Walcott was Secretary, defined the limits of research as the limits of the knowable, and concluded that the function of



**Figure 20.** A Survey geologist examining gold-bearing gravels near Nome, Alaska, 1901.

the institution should be the substitution of organized for unorganized effort whenever it promised the best results, and the prevention of needless duplication of work, pointing out that no investigator, working alone, could approach the largest problems in the broadest way thoroughly and systematically.

The accession of Theodore Roosevelt to the Presidency in September 1901, after the assassination of President William McKinley, very quickly had an effect on the Survey program. By inclination and training, Roosevelt was in full sympathy with the movement for scientific management of the Nation's resources, and in his first State of the Union message, in December 1901, outlined a national forest and water policy. The long effort to promote reclamation of the arid lands, with which both Walcott and F.H. Newell were associated, culminated in passage of the Newlands Act in June 1902 and the establishment of the Reclamation Service. At the same time, the appropriation for the Geological Survey's water-resources investigations was increased and the total appropriation for the Geological Survey for the first time was more than \$1 million. At the

direction of President Roosevelt, the Reclamation Service became an adjunct of the Geological Survey, and Walcott served as director of both agencies.

The organization of the Geologic Branch was again altered when Walcott assumed additional duties as Director of the Reclamation Service and Secretary of the Carnegie Institution of Washington in 1902. Administrative control of five divisions was transferred from the Director to the Geologist-in-charge of Geology and Paleontology, and those five divisions became sections in the Division of Geology and Paleontology. The Division of Physical and Chemical Research and the Division of Mining and Mineral Resources remained under the administrative control of the Director. The Hydrographic Division was separated from the Geologic Branch and became the Hydrographic Branch. In 1903, the Division of Alaskan Mineral Resources, in effect an Alaskan geological survey because it included topographic mapping, was established in the Geologic Branch.

Federal science had then become so involved in the economic life of the Nation that inevitably it also became caught up in the making of national policy. The Geological Survey through its Director had had a hand in the passage of the Forest Management Act in 1897 and the establishment of the Reclamation Service in 1902. Shortly thereafter the Geological Survey also became involved in the regulation of industry. When the coal resources of the Nation became a matter of public interest because of the hardships endured during the prolonged anthracite coal strike in 1902, President Roosevelt appointed a commission, including among its members the Survey's coal statistician, to arbitrate the dispute. The commission in its report was critical of the rivalry between railroads, which owned or controlled more than 96 percent of the anthracite deposits, of wasteful methods of mining, and of mining safety practices, and the Commissioner of Corporations in the newly established Department of Commerce and Labor promptly began an investigation of some of these problems.

Early in 1903, President Roosevelt also appointed the Director of the Geological Survey chairman of a committee to investigate the scientific work of the Government to increase its usefulness, efficiency, and economy. The committee concluded that, in general, the work of scientific research on the part of the Government should be limited primarily to utilitarian purposes and that research in pure science on broad and general grounds should be within the scope of private institutions. The committee favored organization of research around a problem rather than a discipline, and recommended the transfer of several bureaus, including the Geological Survey, to the Department of Agriculture, which already included one-third of all Federal scientific bureaus, received three-fifths of all appropriations for scientific work, and employed two-thirds of all Federal scientists. No action was taken on these recommendations but at the time President Roosevelt was much involved in

foreign affairs, including the negotiations for the isthmian canal and Alaskan boundary problems.

In 1904, the U.S. Geological Survey celebrated the 25th anniversary of its establishment. It had grown from an organization of 38 employees at the end of its first year to one with 491 employees (and another 187 in the adjunct Reclamation Service) in 1904. Its first appropriation had been \$106,000; the appropriation for the fiscal year that ended on June 30, 1904, was \$1.4 million. It had become the leading geologic institution in the United States in the view of "American Men of Science," and many of the 106 geologists whose work was considered most significant by their peers, including the first five ranked numerically, were associated with the Survey. To mark the anniversary, a bulletin describing the Survey and its operations during the 25 years was published. Among the achievements noted were preparation of topographic maps of 929,850 square miles of the United States (26 percent of the country including Alaska) published as 1,327 atlas sheets; geologic mapping of 171,000 square miles and publication of 106 geologic folios; experimental and theoretical investigations of the physical characteristics of rocks in various processes of formation, of volcanic and geyser action, and of rock composition and structure; paleontologic and stratigraphic studies; streamflow measurements and their analysis, which, among other things, had stimulated the development of water power, especially in the Southern States; and studies of irrigable lands and detailed examination and classification of 110,000 square miles of the forest reserves.

Of all the work of the Geological Survey, the bulletin concluded, its immediate value to the people was best shown by the aid extended in developing the mineral resources and in forwarding important engineering projects in which the people, as well as Federal and State Governments, were interested. Singled out for special mention were the investigations of the mining geology of Leadville, of the Lake Superior iron ores, and of the Appalachian coal field.

The mining geology program had, in fact, been a major factor in the development of economic geology as a distinct field in geology, composed of both theoretical and practical aspects. The 25th anniversary of the Survey coincided with the beginning of a new journal *Economic Geology*, and with a call from the American Mining Congress for establishment of a Department of Mines and a counter statement from the *Engineering and Mining Journal* that a bureau of mining should be established under the Director of the Geological Survey because "in no other country--we say it advisedly--has economic geology been applied to the development of industry with such beneficent results as in the United States, and no geological survey has contributed so much to the practical application of the science of geology in mining operations as has the organization in whose behalf we bespeak the earnest interest of our readers."<sup>25</sup> What the Survey needed, the *Journal*



**Figure 21.** Spindletop oil field, near Beaumont, Texas, discovered in 1901, inaugurated a new era in the use of energy resources.

said, was greater scope for economic geology and "freedom from the encroachments of the wood and water departments."<sup>26</sup>

## BEGINNING THE SECOND QUARTER-CENTURY

In 1904, as the U.S. Geological Survey began its second quarter-century, the United States was in the early stages of a period of profound change just as it had been when the Survey began in 1879, but many of the problems facing the Nation in 1904 were very different from those of 1879. During the Survey's first 25 years, the United States had become an urban industrial world power. The population had increased from 48.9 million in 1879 to 81.8 million in 1904. The number of manufacturing establishments and the value of manufactured products had more than doubled during this period, and the value of the mineral products had increased from \$365 million in 1879 to more than \$1 billion in 1904. At the same time, settlement of the West had proceeded so rapidly that by 1890 the frontier had disappeared.

During this age of change, which began in the early years of the century, national policies that had prevailed in the late 19th century were abandoned, social and economic reforms were enacted, and the role of the Federal Government was developed. In fact, the whole fabric of American life was altered. More than one historian has noted the correlation between this period and changes in the use of energy. Whether or not changes in the use of energy affected American mores, clearly they affected the development of natural resources, especially the fossil fuels and water, and these in turn resulted in changes in the geological sciences.

The most obvious change was the increased interest in nonmetalliferous resources, including the fossil fuels. For several years, the Geological Survey had been reporting

that an increasing proportion of the value of the annual mineral production of the United States was being contributed by the nonmetalliferous resources. In 1898, when problems began to develop in the coal industry that caused consumers to turn to other kinds of fuel, Director Walcott had suggested to Congress that a thorough investigation, including practical tests, be made of the coals and cokes of the United States so they might be used to the best advantage, in his own way echoing King's statement in 1880 that mineral resources should be used with the utmost scientific economy. In 1901, oil became a major Survey interest after the successful drilling of a well at Spindletop, 20 miles southeast of Beaumont, Texas, inaugurated a new era in the oil industry.

At the World's Fair in St. Louis in 1904, celebrating the centennial of the Nation's first great acquisition of western territory, the Geological Survey was given an opportunity to demonstrate the value of the more comprehensive investigations of coal and coke, which it had been proposing for many years. For the department of mining and metallurgy at the exposition, which the Survey had agreed to organize, appropriations totaling \$60,000 were obtained for analyzing and testing coals and lignites "to determine their fuel values and the most economic method for their utilization for different purposes."<sup>27</sup> The coal-testing program almost immediately began to produce significant results, and after the fair was over, it was extended and became part of the regular Survey program. At the same time, a similar program for the testing of structural materials was begun. Construction of large public works by the Reclamation Service and the Panama Canal Commission, among others, made the program Walcott had proposed in 1898 of immediate value.

In 1905, the Survey also obtained additional funds to increase its field investigations of iron and coal, the staples of industry, about which there was some concern, and a new program of mapping western coal deposits was started. As the emphasis in the Survey's program in economic



**Figure 22.** Floods in the Passaic River basin, northern New Jersey, 1902-1903, were among the earliest studied by the Survey.

geology shifted to nonmetallic resources, specifically fuel resources, a new Section of the Geology of Fuels was set up in the Geologic Branch.

On March 7, 1904, just 4 days after the Survey celebrated its silver anniversary, the Second Public Lands Commission, appointed in October 1903, submitted its preliminary report. The Federal Government, 118 years after the Land Ordinance of 1785, still held title to 1 billion acres of public lands, most of which, as in 1879, were west of the Mississippi River. President Roosevelt had asked the Commission to report on the condition, operation, and effect of the land laws and to recommend such changes as were needed to effect the largest practicable disposition of the public lands to actual settlers, requests not unlike those Congress had made of the Commission of 1879, but he had also asked that the Commission recommend changes in the public-land laws "to secure in permanence the fullest and most effective use of the resources of the public lands."<sup>28</sup> The recommendations in the preliminary report bore chiefly on the control, use, and disposal of forest lands and the control of water, and no consideration was given to the mining laws even in the final report although the Commission recognized that changes were necessary. In the spring of 1905, Congress transferred the management of the forest reserves from the Department of the Interior to the Department of Agriculture. The classification of the forest reserves was then transferred from the Geological Survey to the newly renamed Forest Service. As the Reclamation Service was becoming less dependent on the Geological Survey and would become independent in 2 years, by the middle of 1905, most of the public-land management responsibilities had been shifted from the Geological Survey.

In 1906, unexpected problems forced a change in the Geological Survey program. When the appropriations bill

came up in the House, a Representative from Iowa challenged the authority in law for the Survey to make a map or gage streams except in the national domain, which he clearly believed to be the public lands, and precipitated a 2-day debate. In the end, only the appropriation for water-resources investigations was greatly reduced, but on the day that the appropriations bill was passed, President Roosevelt ordered the Secretary of the Interior to report as soon as possible the coal lands where the coal deposits were believed to be of such value that the lands should be withdrawn from entry. Evidence had been uncovered that much coal land had been fraudulently acquired, and the Roosevelt administration was about to embark on the conservation of mineral resources in dramatic fashion. A month later, some 66 million acres of potential coal-bearing lands were withdrawn from entry until the Survey could determine their extent, location, and value. The "classification of the public lands" in the organic act took on new meaning.

In the spring of 1907, Walcott left the Geological Survey to become Secretary of the Smithsonian Institution. Before he left, there was a reprise of the 1906 appropriations debate in Congress and several organizational changes within the Survey. The Reclamation Service became an independent agency, and F.H. Newell left the Survey to become its Director. The fuel-testing and structural-materials-testing programs were combined as the Technologic Branch under Joseph A. Holmes. C.W. Hayes, the Geologist-in-charge of Geology and Paleontology, was given a new title and commensurate responsibilities as Chief Geologist of the Survey, in charge of divisions of Geology and Paleontology, Chemical and Physical Research, Mining and Mineral Resources, and Alaskan Mineral Resources.

George Otis Smith, the Geologist-in-charge of the Section of Petrography of the Geologic Branch, succeeded Walcott as Director in May 1907 and continued as Director until December 1930. Smith had joined the Survey after receiving his doctorate from Johns Hopkins University in 1896, and he was barely 36 years old when he was appointed Director. His Survey career had not been particularly distinguished, but he had come to the attention of the new Secretary of the Interior, James R. Garfield, in 1906 when Smith had served as chairman of one of the subcommittees of a Presidential commission that sought to put the operation of Government agencies on a modern businesslike basis. Smith was particularly interested in a business policy for the public domain. He also believed that the work of the Survey should be primarily although not exclusively practical.

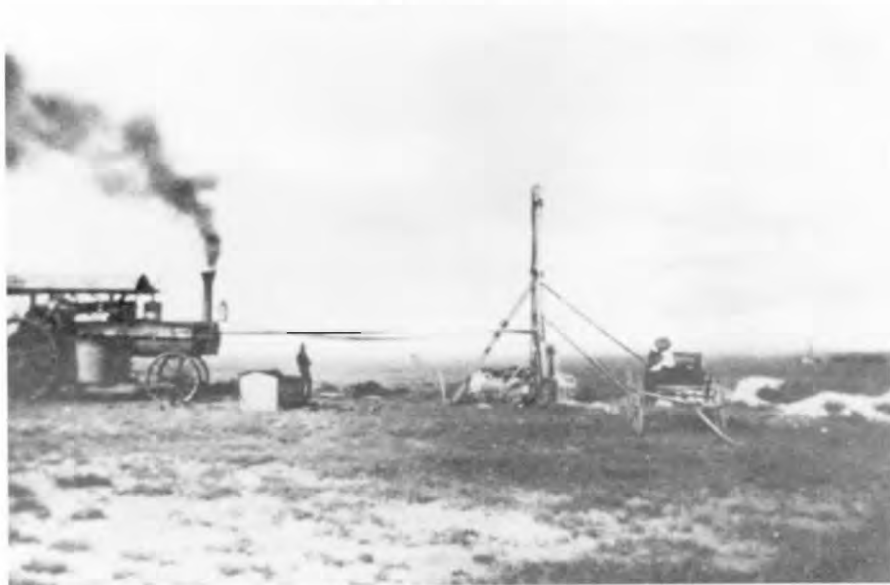
A combination of circumstances ensured that the work of the Survey for many years did indeed become primarily practical. For the first 20 years of Smith's directorate, appropriations were essentially static while funds from outside sources steadily increased, especially for



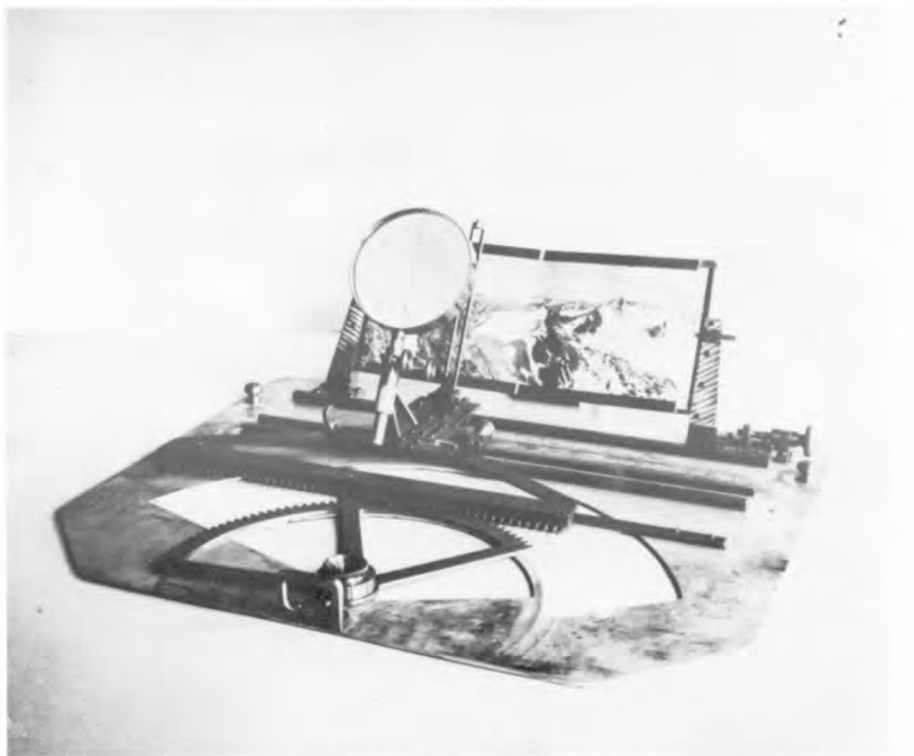
the topographic mapping and water-resources program, which were largely practical in nature. The classification program was extended as the Roosevelt conservation program developed but Congress steadfastly refused to appropriate additional funds for the new form of classification. It was necessary to divert personnel from research programs to the classification program, and an exodus of geologists from the Survey for more challenging positions in industry, which began in the first year of Smith's directorate, resulted in residual impoverishment. Within a few years, the profession began to look down on the Survey as a "department of practical geology."<sup>29</sup>

The extension of the classification program began at the behest of geologists working in the California oil fields who urged the Director to act to safeguard oil development on the public lands. At the time, title to oil-bearing lands could be obtained only under the Mining Act of 1872, which required that a discovery be made before the land could be acquired, discoveries required drilling, which cannot be done in secret, and potential oil lands were being obtained fraudulently under other laws to take advantage of

◀ **Figure 23.** George Otis Smith, Director of the U.S. Geological Survey, 1907-1930.



**Figure 24.** Land-classification and ground-water studies were combined in New Mexico, 1909.



**Figure 25.** The panoramic camera, used in the early 1900's in Alaska, marked the beginning of photogrammetric methods of mapping by the Survey.

the oil companies' work. On Smith's recommendation, the Secretary of the Interior in August 1907 withdrew some potential oil-bearing lands in California from agricultural entry, pending classification. In December 1908, newly discovered western phosphate lands were withdrawn from entry, and the Land Classification Board was established in the Geologic Branch to administer the new responsibilities for classification. Within a few months of the Board's formation, the Survey was assigned responsibility for classification of lands under the Enlarged Homestead Act, and a program of hydrographic classification was added to that of mineral-land classification.

The classification program was only part of the Survey's involvement in the rapidly developing Roosevelt conservation program. An Inland Waterways Commission,

appointed in March 1907 to prepare a comprehensive plan for use of inland waters, in the fall of 1907 suggested a Conference of Governors at the White House to dramatize the need for conservation. From the Governors Conference in May 1908 came the National Conservation Commission that in the record time of 5 months, with the aid of Government scientific agencies including the Geological Survey, prepared an inventory of natural resources, containing not only estimates but predictions of times of exhaustion of various mineral resources.

Conservation, however, became a controversial issue, politically and scientifically. Originally, conservation had referred primarily to the prevention of waste or destruction of resources and was thus considered a scientific or technological problem. In Europe, however, where natural



**Figure 26.** Coal-land classification and geologic mapping were combined in North Park, Colorado, 1911.

resources had long been used with the utmost care, it was natural for the government to exert some control, and there conservation was part of political economy. The conservation inaugurated under Roosevelt differed from European conservation in being almost completely restricted to the public domain and, by the withdrawal from entry of millions of acres of public land, locking up the resources rather than regulating their use. Politically, it arrayed East against West and progressive against conservative; paradoxically, the progressives rather than the conservatives favored conservation. Scientists were also divided; while some stressed the need for research, others urged government control.

Under William Howard Taft, who succeeded Roosevelt as President in March 1909, the conservation movement provided the setting for a battle between progressives and conservatives. Taft was as committed to conservation as Roosevelt but, being a strict constructionist of the law, believed it to be his role to give the Roosevelt program the force of law. His Secretary of the Interior, Richard A. Ballinger, was of like mind. In 1910, Congress undertook an investigation, ostensibly of the Forest Service and the Department of the Interior with regard to certain land claims in Alaska but in reality of loose construction of the law as typified by Gifford Pinchot, the Chief Forester and Roosevelt confidant, and of strict construction as typified by the Secretary of the Interior. The Director of the Survey

strongly supported the Secretary, cheerfully accepted greatly increased responsibilities for classification of the public lands, including evaluations of waterpower sites, and sought and eventually obtained the withdrawal of oil-bearing lands in California and Wyoming. Although Secretary Ballinger was exonerated by Congress, he was condemned by the public and resigned in 1911. Congress, however, had resolved the question of the legality of the withdrawals by passing the Pickett Act in 1910. Thereafter, the resources of all withdrawn lands except the coal lands, which could be sold after being classified and appraised by the Geological Survey, became unavailable.

In May 1910, while the Ballinger-Pinchot investigation was still underway, Congress established a new agency, the Bureau of Mines, designating the Technologic Branch of the Geological Survey as its nucleus, a designation later changed to require the transfer of the structural-materials testing to the National Bureau of Standards and the mine-accidents and fuel-testing investigations to the Bureau of Mines. George Otis Smith served for a few months as Director of the Bureau of Mines as well as of the Geological Survey until Joseph A. Holmes, who had been head of the Technologic Branch in the Survey, was made Director of the Bureau of Mines. Unlike the spinoff of the Reclamation Service in 1902, which had been accompanied by an increase in the Survey appropriation, this second spinoff from the Geological Survey resulted in a decrease in

the appropriation and a greater loss of personnel than the transferred elements of the Technologic Branch.

The Geologic Branch by this time was making an effort to combine some fundamental research with the classification studies. When Chief Geologist Hayes resigned to become the vice president of an oil company in 1911, his successor, Waldemar Lindgren, insisted on the opportunity for research and a reduction in the administrative burden of the office. In 1912, the Land Classification Board was separated from the Geologic Branch and made an independent branch. It had no funds of its own, however, and had to subsist on assessments on the funds of the other branches. When Lindgren left in 1912 to become a professor at the Massachusetts Institute of Technology, paleobotanist David White, even more committed to research, became Chief Geologist. In 1913, to draw attention to the research aspects of the branch's work, a new Professional Paper series, "Shorter Contributions to General Geology," was begun.

In 1914, the Survey faced a new problem. Congressmen from Eastern, Midwestern, and Southern States, reacting to the concentration of Survey work in the public-land States—much as Congressmen 2 decades earlier had reacted to the emphasis on general geology—filed bills to require a more equitable distribution of work, especially of the topographic mapping and water-resources investigations. In retaliation, a Congressman from California proposed an amendment to the appropriations bill to restrict the geologic work of the Survey to the public lands. The House passed the amendment but, fortunately, the Senate and the Conference Committee rejected it.

## WORLD WAR I

World War I reoriented conventional views on mineral resources. When the war began in August 1914, it was assumed that the conflict would last but a short time. The United States was believed to lack a known supply commensurate with its needs of only five minerals of first rank—tin, nickel, platinum, nitrates, and potash. On the other hand, the reserves of mineral fuels and iron were regarded as so enormous that no problems would arise. The Geological Survey, however, immediately increased its geologic mapping to aid the discovery of new oil fields or extension of known fields, but of the five scarce minerals actively sought only potash. The war at first disrupted normal trade relations, but before long, Europe was in urgent need of American agricultural products and then in still more urgent need of American steel, copper, and explosives. Within 2 years, some minerals became difficult to obtain, and the Survey reoriented its work to aid the search for both metals and fuels.

When the United States entered the war in April 1917, the Geological Survey was almost wholly on a war



**Figure 27.** Geologist searching for nitrates in World War I, 1917.

basis. Earlier in the year, a Division of Military Surveys had been formed, and plans for topographic work were adjusted to conform with a program drawn up by the Army's General Staff. The majority of the technical personnel of the Topographic Branch were commissioned in the Army's Corps of Engineers, as were many scientists from the other branches, including the Chief of the Alaskan Division, who became the Chief Geologist of the American Expeditionary Force.

The strategic-minerals concept was born at this time when it became clear that domestic supplies of a dozen minerals were inadequate in quantity or quality or both, another half dozen adequate for peace but insufficient for war, and petroleum production barely sufficient to meet the Nation's normal demand and much too small for the abnormal demands of war. In August 1917, Congress passed the Lever Act empowering the President to make regulations and issue orders to stimulate and conserve the production and control the distribution of fuels necessary to the war effort. A similar bill for the control of other mineral commodities was passed shortly before the war ended but never put into effect.

During the war years, the Survey sought intensively for deposits of war minerals at home and, in time, extended the search to Central and South America and the West Indies. The results were highly successful; adequate supplies of all essential materials were found before the war's end. The Geological Survey also became the main source of information on mineral production, both domestic and foreign, and its data were used to solve a variety of industrial and transportation problems. Personnel from the Survey's Division of Mineral Resources worked in close cooperation with statisticians of the Fuel Administration established after passage of the Lever Act. Geological Survey engineers also undertook a nationwide survey to determine where waterpower could be substituted for



**Figure 28.** Automobiles were used in field work by the time of World War I, 1917.

steam-generated power or where coal could be saved by interconnecting electric plants or systems.

## THE 1920'S

World War I had a pronounced effect on American science; it convinced industry of the value of research, accustomed scientists to work together on the solution of problems, and acquainted scientists in both the public and private sectors with disciplines other than their own. Once the war was over, however, Congress stressed economy, and Federal science suffered for lack of support. So great was the demand for economy that only 1 percent of the budget for the fiscal year beginning July 1, 1919, was earmarked for education and scientific research and development. Industrial research, on the other hand, flourished and created a second industrial revolution based on chemistry. Many scientists left the Government at this time to accept more remunerative positions in industry or in the academic world.

The apparent insufficiency of energy resources was one of the postwar problems calling for immediate attention. Oil shortages in 1919 and 1920 gave credibility to predictions of the exhaustion of domestic supplies within a decade. At the same time, so many Survey scientists were leaving for positions in the oil industry that in some sections there were too few scientists left to train newcomers, and the Survey had to face the long slow process of rebuilding its geologic staff. Many who left the Survey at this time later became chief geologists of leading oil companies, and thus, during the 1930's, a significant proportion of oil-company chief geologists were men who had begun their training under David White.

The postwar shortages convinced Congress that it was necessary to open up the public mineral lands to development. In February 1920, the Mineral Leasing Act was passed. Under the terms of that act, mineral lands were to be leased by competitive bidding, and royalties and other income were to be divided between the Federal Government and the States. The Survey's responsibility for classification of mineral lands was again changed; its major task became



**Figure 29.** San Juan Canyon, southeastern Utah, explored by geologists, topographers, and hydrographers in connection with proposed power and storage projects, 1921.

the determination of the known geological structure of producing oil or gas fields within which oil and gas leases would be issued. Congress then for the first time appropriated funds for the classification of public lands, which in turn were allotted to the field branches.

Waterpower as an alternative source of energy was given new status by passage of the Federal Water Power Act in June 1920, establishing the Federal Power Commission to issue licenses for development of waterpower on Federal lands. Under the Water Power Act, the Survey took responsibility for the necessary streamflow records and for examination of proposed projects on the public lands outside the National Forests. In 1921, Congress authorized a superpower survey to investigate if economy in fuel, labor, and material could be gained by a comprehensive system for generation and distribution of electric power in the region between Boston and Washington. The study was made under the direction of the Geological Survey by independent engineers who proposed a power grid that anticipated the present northeast power network.

Another postwar problem that demanded action was the lack of maps, which had become evident even before war was declared when the Army had found itself without maps upon which to base its defense of the border areas. Industrial development, land reclamation, power-

generation projects, and highway construction were also creating a demand for topographic data. Nearly 60 percent of the country was still totally unmapped, and much that had been mapped was in need of resurvey. Professional organizations urged the President and Congress to make provision for completing the topographic map of the United States in the shortest possible time compatible with requisite accuracy. The Survey proposed a plan whereby the mapping could be effectively and economically completed by 1932, but no funds were made available to inaugurate the plan. Meanwhile, several West Indian republics sought the assistance of the Geological Survey in both topographic and geologic mapping, and Survey scientists and engineers were given leave to supervise their mapping programs. Topographic Branch engineers used the tri-lens aerial camera and related equipment that they had developed in 1916-17 for a systematic aerial survey of parts of Santo Domingo and Haiti. In 1921, a Section of Photographic Mapping was established in the Topographic Branch.

Despite the loss of scientists to industry, the Survey under Chief Geologists David White and Walter C. Mendenhall, who succeeded him in 1922, devoted a major effort to energy minerals. Research was begun on the source materials of petroleum, the physical properties of reservoir rocks, microfaunas as aids to the identification and corre-



**Figure 30.** Stratigraphic studies in the 1920's supported public-land classification, the search for new oil fields, and the development of a new stratigraphic code.

lations of beds, and salt-dome caprocks. Survey physicists and chemists joined the effort by developing improved recovery techniques and by laboratory and field tests of geophysical methods of exploration. In addition, geologic mapping for classification purposes and mapping of potential oil areas was continued, especially in Wyoming, where there was some oil company interest, and in Montana, where only the Survey had done any detailed work. In 1923, the Survey extended its intensive study of possible oil-bearing areas to Naval Petroleum Reserve No. 4 on the Arctic Coast of Alaska. The Survey's long-range stratigraphic correlation studies also became a contribution valued by industry in its exploration for petroleum.

By the mid-1920's, new discoveries in the midcontinent region, the Gulf Coast, and California resulted in an oil surplus, and overproduction and competition leading to reckless waste became a major public concern. This post-war expansion of the oil industry from famine to glut was in part the result of the striking developments in the geological sciences in the industry, as well as Government surveys and the academic world. Two new professional societies, the Society of Economic Paleontologists and Mineralogists, of which Chief Geologist David White was a founder, and the

Society of Exploration Geophysicists, attested to the coming of age of new branches of the geological sciences.

Chief Geologist Mendenhall, who became known for his frequently repeated aphorism "There can be no applied science unless there is science to apply,"<sup>30</sup> strengthened the research aspects of the geologic program during this period even though the size of the staff continued to decrease. By 1925, when the rate of exodus of staff had been slowed or even reversed in some sections, nearly all the geologic work was reoriented toward research.

The Survey, through the Director, also became involved in energy policy. After the great coal strike in 1922, a Coal Commission was established to study the problems of the industry and to aid Congress on legislation that would ensure the Nation of an adequate supply of coal. Director Smith was a member of the Commission, and the Geological Survey's resource data provided the basis for much of the Commission's report. In 1924, Smith unsuccessfully urged resumption of coal research in much the same terms as Walcott had used in 1898. Director Smith also served as Chairman of a three-man commission appointed by President Calvin Coolidge in March 1924, after the Teapot Dome scandal, to study the efficient

management of the naval petroleum reserves, and as Chairman of the Advisory Committee to the Cabinet-level Federal Oil Conservation Board established in December 1924 to reappraise Federal oil policies.

The Survey once more became involved in regulatory functions in 1925, when the Bureau of Mines, which had had responsibility for supervising mineral lease operations on the public lands since passage of the Mineral Leasing Act in 1920, was transferred to the Department of Commerce, and the Department of the Interior delegated that responsibility to the Geological Survey. The Land Classification Branch was renamed the Conservation Branch and its responsibilities were described as classification of lands according to their highest use; the protection of the public interest in undeveloped mineral, waterpower, and agricultural resources; and the promotion of economical and efficient development of mineral deposits on public and Indian lands. The regulatory functions, which were quite different from any previous Geological Survey responsibilities, required a large force of mining and petroleum engineers who increased the Geological Survey staff to more than 1,000 employees, of whom only 126 were geologists.

The topographic-mapping and water-resources programs by this time were heavily dependent on cooperative and transferred funds. In February 1925, Congress passed the Temple bill which called for completion of a topographic map of the United States within 20 years and authorized both an appropriation of \$950,000 for the first year and cooperative arrangements with States and other civic subdivisions to expedite the mapping. Congress, however, did not increase the appropriation to the authorized level but instead made it evident that it expected the States to bear most of the cost. In 1927, Congress appropriated additional funds for topographic mapping with the proviso that they be available only to match cooperative funds from States or municipalities. Under these circumstances, the topographic-mapping program was controlled by the cooperators and could not be a truly national program.

A similar situation existed in the Water Resources Branch, where directly appropriated funds were less than 30 percent of the total. Congress, in 1928, increased the funds for water-resources investigations, again with the proviso that the additional funds be available only to match cooperative funds. The bulk of the work was stream gaging, much of it in connection with flood-control investigations of the Corps of Engineers or international problems for the Department of State. Waterpower investigations were often made in conjunction with engineers of the Topographic Branch. Demands for quantitative information on the availability and most efficient methods of utilizing ground water became increasingly urgent; in some parts of the country, the demand for ground water for municipal supplies or irrigation had become so great that there was danger of

overdevelopment. In much the same manner that the mining-geology investigations of the Survey's first quarter-century led to the development of general principles and the emergence of economic geology, in the latter part of the second quarter-century ground-water investigations progressed to a quantitative stage, and a major report on the occurrence of ground water in the United States with a discussion of the principles of hydrology was published. As a new stage in the professionalization of the science was reached, Survey scientists took an active role in the organization of the Section of Hydrology of the American Geophysical Union.

For its 50th year, the Survey had an appropriation of \$2 million and available total funds of \$3.4 million. It had 998 permanent employees and was conducting mapping and investigations in 45 States, Alaska, Hawaii, and the District of Columbia. Nearly 44 percent of the continental United States exclusive of Alaska had been topographically mapped. Streamflow was being measured at 2,238 gaging stations; income from mineral leases, licenses, and prospecting permits on the public lands under Survey supervision was \$4.1 million. As part of the 50th anniversary celebration, Survey alumnus President Herbert Hoover and Mrs. Hoover received members of the Survey at the White House on March 21, 1929, the 50th anniversary of the appointment of Clarence King as the first Director.

## THE DEPRESSION YEARS

The Great Depression began only 7 months after Hoover's inauguration, and efforts to combat it dominated the next decade. Before it began, however, Hoover's interest in science and conservation brought about a change in the Survey's work in several respects, first in conservation activities and then in basic research. In the conservation of the public lands, Hoover recognized three urgent problems: overgrazing, which diminished the value of the lands and imperiled the water supply through destruction of the natural cover; the best method of applying reclamation in order to gain real and enlarged conservation of water resources; and the conservation of oil and gas resources. He took action first on the third problem, announcing on March 12, 1929, that henceforth there would be the greatest possible conservation of Government oil, thereby changing the work of the Conservation Branch with respect to oil and gas leases. The importance given to the conservation of water resources led to a still greater expansion of the Water Resources Branch.

In the fall of 1929, the first Hoover budget called for increased funds for scientific agencies, including \$100,000 for fundamental research in geologic sciences, the first substantial increase in Federal funds for geologic investigations since 1915. In the spring of 1930, Congress appropriated \$2.87 million for the Geological Survey and also



**Figure 31.** Walter Curran Mendenhall, Director of the U.S. Geological Survey, 1930-1943.



**Figure 32.** Geologists examining placer gold in Georgia, 1934.

appropriated funds for the expenses of a commission on the conservation and administration of the public domain.

In December 1930, Hoover appointed George Otis Smith to the newly reorganized Federal Power Commission and then appointed Walter C. Mendenhall to succeed Smith as Director of the Geological Survey, honoring not only a commitment to appoint the heads of scientific agencies from within the civil service but also a commitment to support basic research. Mendenhall was 59, the same age as Smith. He had joined the Survey in 1894, fresh from Ohio Normal University, and had mapped in the Appalachian coal fields. In 1898, he had been one of the pioneer geologists in Alaska, and in 1903 he had become one of the first ground-water specialists in the Water Resources Branch. An early member of the Land Classification Board, he became its chairman in 1911 and in 1912 the first Chief of the Land Classification Branch. For 8 years before becoming Director, Mendenhall had been the Chief Geologist. Although more than half his Survey career had been in administrative work, he had made notable contributions to the geology of Alaska, and his study of the principles in ground-water hydrology had helped to establish it as a field of scientific endeavor. Like King, Powell, and Walcott, Mendenhall became a member of the National Academy of Sciences.

Mendenhall's directorate was pivotal in the history of the Geological Survey. In spite of the difficult times, the depression years, and the beginning of World War II, he encouraged the Survey, as he had the Geologic Branch, to emphasize the necessity of basic research and created an environment in which, in the words of the *Engineering and Mining Journal*, "scientific research, technical integrity, and practical skill could flourish."<sup>31</sup>

A year after Mendenhall became Director, the Federal budget was sharply cut as the effects of the depression began to be felt. The appropriations were not restored to earlier levels until the late 1930's, shortly before the outbreak of World War II, but the Survey subsisted, even grew, on funds transferred from agencies formed to combat the depression by the Franklin D. Roosevelt administration. The Tennessee Valley Authority, established in May 1933, turned to the Survey to meet its need for maps of the entire valley and for a much expanded program of stream gaging throughout the basin. Time constraints on the mapping assignment provided the Survey with an opportunity for a full-scale test of the use of aerial photography, with which it had been experimenting since 1904, and ultimately, with the aid of newly developed photogrammetric equipment and techniques, led to a complete revolution in mapmaking procedures. The Public Works Administration, established in June 1933, began allocating funds in August for topographic mapping, water-resources projects, and much-needed safety work on the public lands that by November 1 amounted to more than \$3.7 million, more than the total of all funds for the Survey's 50th year. By the end of the fiscal year, the funds from other Federal agencies and cooperative funds were four times the Federal appropriation. The grants from the Public Works Administration and the Tennessee Valley Authority could be and were used in part to extend Survey investigations and mapping into new areas and to



**Figure 33.** A Survey topographer using multiplex equipment to prepare a topographic map, 1936.

support research studies. Mineral-resource investigations were made in Eastern and Southern States, extensive studies of the relation of rainfall to runoff and of the magnitude and frequency of floods were undertaken, gaging-station networks with improved structures and instruments were expanded, the topographic-mapping program became a national program, and most of the mapping was done at the needed larger scales.

The Roosevelt administration made extensive use of boards and commissions for planning purposes, including both science and conservation. The Science Advisory Board, established by President Roosevelt in July 1933 and placed under the jurisdiction of the National Academy of Sciences and the National Research Council, reported to Secretary of the Interior Harold Ickes that the organization of the Survey was well designed, and its scientific and technical standards high, but its work was inadequately supported and conditions under which its scientists worked were intolerable. The National Planning Board, established

at about the same time by Secretary Ickes to aid him in formulating a comprehensive plan of public works, evolved into a National Resources Board or Committee that attempted to develop policies for minerals, mapping, water, and land use. Survey scientists and engineers contributed to these planning groups. Although Americans in general and Congress in particular were suspicious of governmental planning, the idea was eventually accepted.

In June 1934, the Taylor Act was passed, providing for organization of the public grasslands into grazing districts under the control of the Secretary of the Interior. By the following March, the President withdrew all remaining public lands, used primarily for grazing, to determine the most useful purpose for which they might be used. The work of agricultural and grazing classification, which the Survey had begun in 1909, was transferred to the new Grazing Service as the third spinoff from the Survey.

The Federal appropriation for the Geological Survey was restored to its 1931 level for the fiscal year beginning



**Figure 34.** William Embry Wrather, Director of the U.S. Geological Survey, 1943-1956.

July 1, 1938. No longer dependent on uncertain emergency funds, the Survey hoped to resume its long-term research and mapping projects. By that time, however, Germany, Italy, and Japan were already perceived to be aggressor nations. Beginning in the mid-1930's, both the Survey and the Bureau of Mines had called attention to the need for strategic-mineral investigations. The need for a national mapping program had been outlined as early as 1934. Strategic-mineral investigations were begun in 1938 with funds from the Public Works Administration. Congress passed the Strategic Materials Act in June 1939 and appropriated funds for strategic-mineral studies in August, only days before Hitler's armies marched into Poland to begin World War II.

## WORLD WAR II

Topographic mapping of strategic areas in accordance with military priorities was begun in 1940. In 1940 also, the State Department allotted funds to the Geological Survey to begin investigations in cooperation with other American republics to identify mineral deposits of potential importance in hemisphere trade.



**Figure 35.** Military geologists opening a box of soil samples from the Southwest Pacific, 1945.

The Japanese attack on Pearl Harbor on December 7, 1941, abruptly ushered the United States from defense to war and united Americans in a determination to defeat the Axis powers. For the next several years, the Geological Survey bent its entire energies to the war effort. The Geologic, Topographic, Water Resources, and Conservation Branches each made its own special contribution.

Production, the keystone of the American effort, was based on metals and other raw materials, which were the province of the Geologic Branch. The strategic-minerals program begun in 1939 as an adjunct to the geologic program was gradually extended from seven strategic minerals to base metals to nonmetallic resources, especially oil, and to rare metals. Geologists, geophysicists, chemists, physicists, petrologists, and paleontologists were all drawn into service, and the Geological Survey reached out to universities and industry to recruit others. The search for needed resources covered not only the United States but also, under the auspices of the State Department or the Board of Economic Warfare, Latin America and other foreign areas. New methods were devised to aid in the search, among them airborne magnetic surveying, which the Survey developed in cooperation with the Navy, and geochemical prospecting. In addition to its work with raw materials, the Geologic Branch formed a group that used the



**Figure 36.** Geologist operating airborne magnetic equipment, 1945.

extensive library resources to prepare terrain reports on strategic areas for military engineers. Eventually several members of the group joined the engineers in the war theaters. The Topographic Branch continued the strategic mapping program on behalf of the War Department until the threat of invasion passed and then became deeply involved in the production of maps of foreign areas for the military. The trimetrogon mapping program was developed for rapid production of aeronautical charts, at first of Alaska and then of other areas of the world as well. The Water Resources Branch supplied information on the quantity, quality, and availability of surface and ground water needed for cantonments, naval stations, military hospitals, training fields, airfields, manufacturing plants, and a host of other purposes in more than 15,000 special reports. The Conservation Branch was stretched to cover the greatly expanded production of mineral resources from the public lands.

In 1943, as the Federal Government began planning for the postwar era, Director Mendenhall, who had served 2 years beyond then mandatory retirement age by Presidential exemption, was succeeded by William Embry Wrather. For most of his life, Wrather, a graduate of the University of Chicago who had been a Survey field assistant in 1907, had been an eminently successful consulting petroleum geologist, but when he was named Director he was Associate

Chief of the Metals and Minerals Division of the Board of Economic Warfare. In the fall of 1943, Wrather was a member of the small mission sent by the Petroleum Administrator for War, Harold Ickes, to appraise the petroleum resources of the Middle East, and Thomas B. Nolan, a geologist in the Metals Section who had played a leading role in the strategic-minerals program, became Acting Director. A year later, in December 1944, Nolan became the Survey's first Assistant Director. Nolan, like Clarence King, the first Director, was a graduate of the Sheffield Scientific School at Yale and also had a strong interest in research to aid the mineral industry. Nolan had joined the Survey in 1924, after receiving his doctorate from Yale, and his abilities had been quickly recognized. While still only an Assistant Geologist, he was made chief of the Gold Hill project in Utah, and his study of the Tonopah mining district in Nevada helped to revitalize the district. In 1933, the International Geological Congress had awarded him its Spendiarov Prize as a particularly promising young geologist. The Assistant Director was expected to be the principal assistant and deputy to the Director in the general administration of the Survey and representative and deputy of the Director on official or technical committees or in conferences with the officers of the Department, other Federal agencies, and cooperating agencies. In corporate terms, Nolan was the Chief Executive Officer of the Survey and Wrather the Chairman of the Board in the effort to ensure full use of Survey resources in winning the war and in the postwar world.

## POSTWAR AND COLD WAR

World War II was a watershed in the history of the U.S. Geological Survey. Wartime developments in science and technology provided new tools for the solution of prewar problems that had been put aside and new ones created by the exigencies of the war. The contribution of science to the security and prosperity of the Nation was more widely recognized than ever before, and greater demands were made for both traditional and innovative research in solving postwar problems. The growth of the Geological Survey, begun under the spur of war needs, continued after 1945, and thus within only a few years, the Survey had become a very different organization than the prewar Survey.

Some of the postwar problems faced by the Survey at the end of the war were reminiscent of those after World War I. Half the Nation, including a large part of the public lands, was still without topographic maps, and many of the available maps were inadequate to meet the needs of the postwar world. Geologic mapping of the country was even less complete. Less than 10 percent of the country had been mapped geologically on scales suitable for an appraisal of natural resources and land potential to meet modern needs,

and the rate of mapping possible with funds available was only one-sixth of that needed to complete the job by 1980. Base-metal reserves had been greatly depleted during the war, the limit of the Nation's capacity to produce efficiently from known oil fields had been reached, and appraisal of coal reserves and the search for new supplies was considered urgent.

The Geological Survey prepared a plan to provide adequate topographic maps for the entire Nation within 20 years, needing only funds to implement it, planned major studies on copper, lead, zinc, iron, and the ferroalloy metals, and the continuation or expansion of regional studies to aid the search for new petroleum supplies.

There were new problems as well. The United States was accounted a have-not nation in radioactive raw materials, and wartime technological developments had created needs for many other rare elements, such as beryllium and tungsten. Development of the Missouri River Basin by coordinated projects of the Bureau of Reclamation and the Corps of Engineers, authorized by Congress in December 1944, would begin as soon as the war was over. The Survey would be called on to conduct an extensive topographic-mapping program, an intensive multiyear program of hydrologic data collection and investigations, and geologic investigations to help determine the availability of construction materials, suitability for irrigation, susceptibility to landslides, and water-holding capacity of various sites. Survey scientists and engineers also continued to serve in foreign areas. Under the auspices of the State Department, cooperative projects were continued in several Latin American countries. Several members of the Military Geology Section were assigned to the Natural Resources Section, General Headquarters, Supreme Allied Powers, in Tokyo, where they formed the main part of the Mining and Geology Division. Geologic and hydrologic studies were also made in Korea, and two geologists were assigned to the general engineer district in Manila to make surveys of construction materials to aid in the rebuilding of Manila and to cooperate in a program designed to develop the valuable mineral deposits of the Philippine Islands.

Both the Geologic and the Topographic Branches reorganized to cope better with postwar problems. The Geologic Branch was divided in the fall of 1945 into two groups of sections, one of economic geology, the other of basic and engineering sciences. Included were sections for new specialties in foreign geology, engineering geology, military geology, and geophysics. The Topographic Branch established two staff divisions, Plans and Coordination, and Research and Technical Control, on January 2, 1946, to prepare for an immense mapping effort with new mapping techniques. In a major change, on July 1, 1946, the topographic mapping facilities and commitments of the Alaskan Branch were transferred to the Topographic Branch. In October, the Alaskan Branch was dissolved as a major organizational unit and its geologic staff transferred

to the Geologic Branch. The Water Resources Branch had an almost complete change of management in 1946 with a new Chief Hydraulic Engineer, new chiefs of the Surface Water, Ground Water, and Quality of Water Divisions, and a great increase in the number and size of State-level district offices. Then on January 1, 1949, as the Survey approached its 70th birthday, its time-honored nomenclature for organizational units was changed to conform to usage in other parts of the Federal Government. The Branches became Divisions, the Sections became Branches, and the former Divisions lost any distinguishing title.

Science and the management of natural resources received increased attention in both the domestic and foreign policy of the administration. In September 1945, President Harry Truman, concerned about petroleum resources, claimed Federal authority over the Continental Shelf and provoked a legislative and judicial battle, eventually settled in 1953 when the coastal States were given authority over submerged lands to a maximum distance of 3 geographical miles. In 1946, the Atomic Energy Commission and the Bureau of Land Management were established. In 1947, the President's Scientific Research Board called for an increase in annual expenditures for research and development and an increased emphasis on basic research. In his inaugural address in 1949, President Truman called for U.S. capital and technical assistance to underdeveloped areas of the world. In 1949, also, the Hoover Commission on the Reorganization of the Federal Government proposed a new role for the Department of the Interior in the development of subsoil and water resources, and the Senate and House held joint hearings in search of an improved policy for the conservation, development, and administration of the natural resources. In January 1950, the President appointed a Water Resources Policy Commission to recommend a comprehensive policy for water resources and related land-use development; in May 1950, the National Science Foundation was established and a new office, of the Assistant Secretary for Mineral Resources, was established in the Department of the Interior.

The scientific programs were expanded as increased funds became available. At first, Congress was amazed at the amounts the Survey requested in its first postwar budgets, and appropriations were far less than was requested, but transfers of funds from other Federal agencies, notably the Department of Defense, the Atomic Energy Commission, and the Bureau of Reclamation, together with cooperative funds from the States, made the total available about twice the appropriation. After the initial shock, Congress increased appropriations to more than \$15 million for the fiscal year beginning July 1, 1949, and more than \$19 million for the fiscal year beginning July 1, 1950.

By 1950, the Geological Survey began undertaking investigations in new areas to meet the demand for current information. Geologic mapping was needed in fast-growing

industrial areas to provide geologic data for the many types of engineering construction. The demand for construction of large dams to impound water for irrigation, power development, flood control, and industrial use focused attention on the need for information on the effect of waterloss by evaporation and the limitation of the useful life of reservoirs by deposition of sediment as well as on stream flow and sediment load. The heavy drain on ground-water resources during the war had resulted in critical conditions in many areas; saltwater encroachment was a subject of special concern in some coastal areas. Efforts to upgrade the Nation's highways required hydrologic data and flood studies to aid highway drainage design. When funds were appropriated for technical assistance programs, Survey scientists and engineers took on assignments in the Eastern Hemisphere, and the Survey extended its in-service training program in geology and the administration of research organizations for promising young scientists of Latin American countries to scientists of the Eastern Hemisphere countries.

## THE KOREAN WAR

In late June 1950, the uneasy peace that followed World War II was shattered by the outbreak of hostilities in Korea, and defense again became the underlying theme of national policy. The Geological Survey made an effort to continue the regular program, but of necessity the staffing of defense activities caused delays or interruptions in other programs. About three-fourths of the mineral-deposits investigations were focused on strategic minerals. The military geology program was expanded, as was the search for radioactive raw materials. The new program of urban geology was accelerated to aid in civil defense. In response to a request from the Army's Corps of Engineers, the topographic mapping program was expanded in an effort to complete mapping of about 600,000 square miles of strategic importance in 6 years. A unit newly established to investigate the quantity and quality of water required to produce various manufactured products began with an investigation of the needs of the steel industry. The Geological Survey was also given new responsibilities under the Defense Production Act of 1950, which provided for stockpiling of critical materials, including, for the Defense Minerals Administration, the evaluation of applications for loans and the preparation and enforcement of contracts for the loans. The Petroleum Administration for Defense called on the Survey to make a special geologic investigation of the newly discovered Scurry Reef in Texas to aid in planning its development. At the same time, activities in foreign geology increased in scope and tempo under the Mutual Security Act of 1951.

The Korean War heightened concern about long-term materials supply in a world that felt threatened by Soviet

expansionism. In January 1951, President Truman established a Presidential Commission to make an objective inquiry into the major aspects of the problem. The Survey furnished a full-time liaison and consultant and made studies of marginal ore reserves of several mineral commodities and of exploration and discovery practices for several important minerals for the Commission. The Commission in its report in June 1952 concluded that both the Government and private citizens must be involved in ensuring a long-term supply and that the effort should be carried on "not periodically at wide-spaced intervals, but day by day and year by year."<sup>32</sup>

A cease-fire and armistice in Korea had been proposed in June 1951, 6 months after the Commission was appointed and a year before it issued its report, but the truce talks were stalemated for 2 years so there could be no complete return to peacetime conditions. When the armistice was finally concluded in the summer of 1953, a new Republican administration with a different perspective and the avowed purpose of reducing Government spending, balancing the budget, and reducing taxes had taken over in Washington. President Dwight Eisenhower called for a cooperative effort in resource development to "level off peaks and valleys"<sup>33</sup> in the economy, but the Appropriations Committee concluded that the Interior Department should be concerned only with functions or activities that private enterprise could not or would not undertake. Progress in the development of a minerals policy was suspended.

## THE SURVEY AT 75

For its 75th year, beginning July 1, 1954, the Survey had 7,000 employees, appropriated funds of \$27,750,000, and total funds, including those from other Federal agencies and the States, of nearly \$48.5 million. Its methods of work had changed markedly in the decade since the end of World War II. The Survey had been given responsibility by the Bureau of the Budget for the National Topographic Map Series of the United States and for exercising government-wide leadership in coordinated planning and execution of mapping activities of the Federal Government. Although only 33 percent of the topographic mapping of the Nation met modern standards, the use of aerial photographs and photogrammetric methods for production of most topographic maps, the continuing development of more accurate instruments and methods, and the use of helicopters to transport topographic engineers to mountaintops and other remote spots to obtain survey control measurements resulted in a significant increase in the amount of mapping accomplished each year. Data on streamflow were being obtained at some 6,400 gaging stations, about 500 ground-water investigations were in progress, and the chemical quality of more than 85,000 samples of water was being



**Figure 37.** A helicopter landing topographic engineers and equipment for triangulation, 1953.

determined in Survey laboratories. In addition, studies of the water requirements of industry, of flood frequency and low flow, of sedimentation, and of flow in open channels and through constrictions were underway. Geologic mapping and mineral-resources investigations were still being carried on, but geologists were adapting photogrammetric methods to their mapping, making use of physics and chemistry in their studies, and applying modern statistical methods to problems of field geology. Geophysicists were keeping two aircraft busy making airborne magnetic and radioactivity surveys, chemists were devising faster and more accurate analytical methods, and the Survey acquired an electron microscope, a mass spectrometer, and an electronic computer. The Survey had responsibility for supervising more than 100,000 lessee operations on mining or oil-and-gas properties on public, acquired, or Indian lands and, since 1953, of oil-and-gas lease operations on the Outer Continental Shelf. Rent and royalty income from supervised operations was \$73.5 million.

## A NEW AGE BEGINS

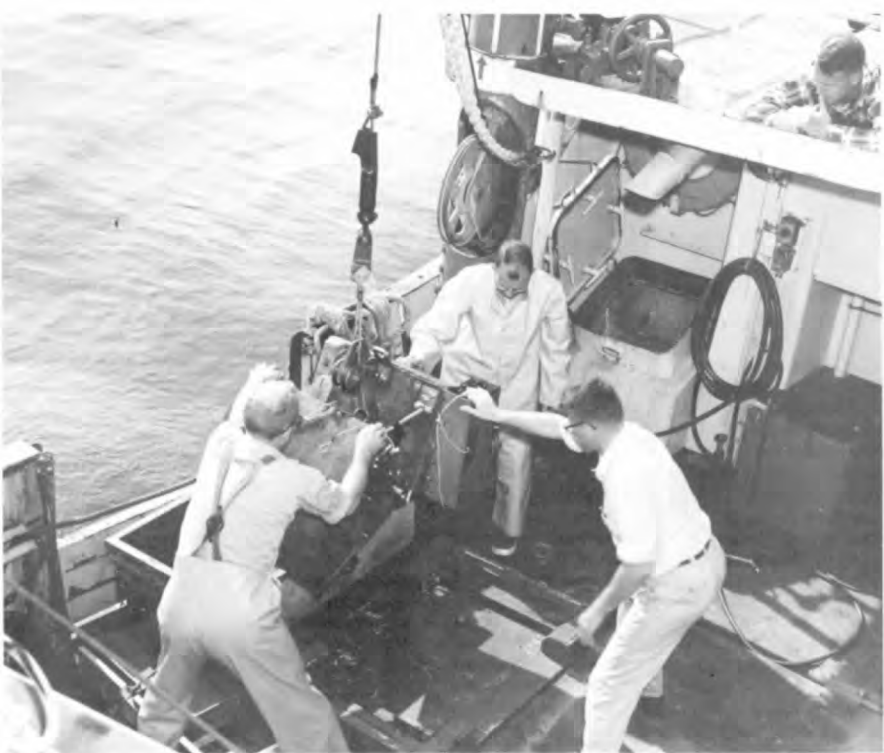
In January 1956, after Director Wrather retired because of illness and age, Assistant Director Thomas B. Nolan became the Survey's seventh Director. During his 11 years as Assistant Director, Nolan had many times and for extended periods served as Acting Director so no transition period was needed. Nolan believed that geologists, because of the unique requirements imposed on them by their science, should expand their fields of interest from individual problems and "participate actively and authoritatively in



**Figure 38.** Thomas Brennan Nolan, Director of the U.S. Geological Survey, 1956-1965.

the matters affecting the whole country."<sup>34</sup> Until September 1965, when he resumed his research in Great Basin geology, Nolan pushed, prodded, and led the Survey to a broadened and intensified commitment to basic research, to the advancement of geology in the public service, and to the prompt publication of Survey results. As Assistant Director, he had also served as the Interior Department representative on the Interdepartmental Committee on Scientific Research and Development, on the Scientific Advisory Committee on Specialized Personnel to the Selective Service Committee, and on the Advisory Board on Education of the National Academy of Sciences, and had been president of the Society of Economic Geologists. As Director, his professional responsibilities outside the Survey were still further extended to service as vice president and president of the Geological Society of America, as vice president of the International Union of Geological Sciences, and on committees advisory to university geology departments.

Science and technology by this time were helping the Nation to meet many of its increasing demands for raw materials through improved methods of exploration, the ability to exploit lower-grade sources, and the substitution of common for less common materials, but new dimensions were added to the problem. Overspecialized exploitation of mineral resources in some areas caused economic problems; competition for resources, where development of one pre-



**Figure 39.** Marine geologists preparing sampling buckets to study the sea floor, 1962.

cluded use of others, created resource-management problems; the increasing industrial development and urbanization were creating wastes that caused health hazards and heightened vulnerability to damage by natural geologic processes. The Geological Survey in turn added new dimensions to its own investigations. In 1956, the Geological Survey began an evaluation of the effects of underground nuclear explosions at the Atomic Energy Commission's Nevada Test Site; that program was expanded to study the geologic and hydrologic conditions affecting the peaceful uses of atomic energy and the disposal of radioactive wastes. Geochemical exploration techniques, developed to aid the search for mineral resources, were adapted to investigate subtle differences in the natural distribution of chemical elements that might have a bearing on public health. Studies of geologic processes led to measures to

protect the public from natural disasters; for example, research at the Hawaiian Volcano Observatory not only provided new understanding of the formation of ore deposits but also aided in the prediction of volcanic eruptions.

On October 4, 1957, Soviet scientists, investigating upper atmosphere conditions as part of the International Geophysical Year program, launched a rocket-powered artificial satellite "Sputnik" into orbit, astonishing the world and ushering in a new era in the sciences. The United States joined the race to explore space by putting Explorer I into orbit on January 31, 1958, and Vanguard I on March 17, 1958. In December 1958, Director Nolan, speaking at the meeting of the American Association for the Advancement of Science, remarked that the early work of the Geological Survey had been characterized by a transition from exploration of a geographical to an intellectual frontier, but



**Figure 40.** An astronaut in the Survey training program for geologic investigations of the Moon, 1963.

demands by younger scientists for studies of the geography of outer space might soon inaugurate a new cycle in the history of the Geological Survey. In 1959, the Survey compiled a photogeologic map of the Earth's satellite, the Moon, and began studies of tektites and impact craters. On May 25, 1961, President John F. Kennedy proposed as a goal "landing a man on the moon and returning him safely to earth"<sup>35</sup> before the end of the decade, and in 1963, the Geological Survey, in cooperation with the National Aeronautics and Space Administration, began to train astronauts in geology and to investigate and evaluate methods and equipment for geological and geophysical exploration of the Moon.

Congress had by that time already expanded the Survey's Earth-bound investigations, to Antarctica and the Trust Territory of the Pacific Islands in 1958, and to "outside the national domain"<sup>36</sup> in 1962. In 1962, the Geological Survey began a program of marine studies to identify and evaluate potential mineral resources on or beneath the sea floor and to aid in solving the problems caused by rapid population growth, urbanization, and industrial expansion in coastal areas. Both the Geologic and Water Resources Divisions modified their internal organizations to deal more effectively with multidisciplinary investigations and research.

Under the Kennedy-Johnson administration in the early 1960's, appropriations were increased significantly, and total funds available for the fiscal year beginning July 1, 1964, for the first time exceeded \$100 million, more than double the amount available just a decade earlier. In 1964, the Geological Survey again prepared a long-range plan for its future. Research functions were obviously not susceptible to a definite schedule, but some phases of the work, such as the topographic mapping of the Nation, were planned for orderly progression toward completion. Standard 7.5- and 15-minute quadrangle maps had been published for approximately 60 percent of the total area of the United States, and advance prints were available for another 9 percent. The long-range plan called for completing the topographic maps of the United States and outlying areas in either 7.5- or 15-minute series by fiscal year 1976 and the 7.5-minute series for all areas of the United States except Alaska by fiscal year 1981. Research would be continued in mapping systems and cartography, and the applications of electronic measuring systems and data-processing systems investigated. An increase of approximately 50 percent in the collection of basic water data was planned for the decade 1964-1973, as well as the development and testing of digital recording equipment and processing of water data by automation by 1968. Generalized or detailed ground-water information would be available for 75 percent of the country and reconnaissance information for the remainder by the end of 1974. Research would be increased to approximately 25 percent of the water-resources program. Research in economic geology, engineering geology, regional geology, and experimental geology would be doubled to meet the accelerating needs for resources and to provide the basic geologic data for urban expansion, engineering construction, and other purposes. The marine program would map and evaluate the composition, structure, and resources of the ocean floor and study geologic and hydrologic processes that operate within the oceans to understand better the conditions under which ancient sediments and ore deposits were formed. For the attainment of these goals, the Geological Survey recognized that the cooperative relations with States and other Federal agencies which it had long enjoyed were essential.

In 1964, however, new responsibilities were thrust upon the Geological Survey. One of the greatest earthquakes of all time struck south-central Alaska on March 27. Within a few hours, the Survey began a scientific and engineering study that extended through several field seasons and provided a very thorough documentation of a natural disaster. Survey geologists were also assigned to the Task Force of the Federal Reconstruction and Development Planning Commission and helped select sites for rebuilding the devastated area. In October 1965, following public release of a report by an Ad Hoc Panel of the President's Office of Science and Technology, the National Center for Earthquake Research was established in Menlo Park, Cali-



**Figure 41.** A major earthquake in 1964, which destroyed this elementary school in Anchorage, Alaska, spurred efforts to predict earthquakes.

ifornia, to provide a focus for research on the causes, mechanics, and effects of earthquakes and on the development of methods for predicting the time, location, and destructive effects of earthquakes to reduce the loss of life and property.

On August 28, 1964, the Bureau of the Budget gave the Department of the Interior responsibility, which the Department then delegated to the Geological Survey, for the design and operation of the national network for collection of water data so that water information needed for effective development and management of water resources would be collected in a timely, effective, and economical fashion, and would be readily accessible at a single focal point. The Geological Survey in turn established an Office of Water Data Coordination. The new organization of the Water Resources Division made it possible for the Division to deal more effectively with multidisciplinary hydrologic studies and research needed for better water-resources and environmental management. The Division had also instituted intensive programs in hydrologic training and aided in establishing curricula in hydrology in leading universities.

On September 3, 1964, Congress passed the Wilderness Act, by which 9.1 million acres of national forest lands were made part of the National Wilderness Preservation System to be safeguarded permanently against commercial use and construction of permanent roads and buildings. New mining claims and mineral leases would be allowed only until December 31, 1983. The Geological Survey and the Bureau of Mines were authorized to assess the mineral resources of each area proposed or established as wilderness

if no prior mineral survey had been made, and a new program of geologic mapping and mineral-resource assessment was begun.

In June 1964, President Lyndon Johnson, in proclaiming U.S. participation in the International Cooperation Year, said "I propose to dedicate this year to finding new techniques for making man's knowledge serve man's welfare. Let this be the year of science."<sup>37</sup> In January 1965, he proposed a vast program to build a "Great Society," which he assumed could be financed without additional taxation. Among the measures passed by Congress in 1965 were such conservation measures as the Water Quality, Highway Beautification, Clean Air, and Solid Waste Disposal Acts. In the spring of 1965, however, the United States began to increase its commitment to support the anti-Communist regime in Vietnam, begun in the Eisenhower administration, and in his budget message in January 1966, President Johnson acknowledged that the appropriation of funds for increased commitments in Vietnam would hinder domestic programs.

In late September 1965, Chief Geologist William T. Pecora succeeded Thomas B. Nolan as Director. Pecora, who received his bachelor's degree from Princeton in 1933 and his doctorate from Harvard in 1940, joined the Geological Survey in 1939. For several years, he investigated strategic-mineral deposits in the United States and Latin



**Figure 42.** William Thomas Pecora, Director of the U.S. Geological Survey, 1965-1971.

America and then engaged in a long-range study of rare mineral deposits in volcanic rocks and carbonatite complexes in Montana. He was elected to the National Academy of Sciences in 1965. He had also had administrative experience as Chairman of the Civil Service Board of Examiners and Chief of the Geochemistry and Petrology Branch before becoming Chief Geologist. Pecora was Director for only a few years; in April 1971, he left the Geological Survey to become Under Secretary of the Interior.

The late 1960's were troubled times in the United States, marked by student unrest, racial demonstrations, racial violence, and increasing opposition to the war in Vietnam. Survey appropriations were not decreased, but the rate of increase was considerably less than it had been. Pecora's administration became an interesting blend of old and new problems and solutions. The Geological Survey had been established in an era of monetary uncertainty, in its first year it had concentrated on a study of some of the great precious-metal mining districts, and it had responded to other monetary crises in the 1890's and 1930's. In 1965, the U.S. gold stock, which had been steadily declining since 1949 despite government efforts to stem the deficit in balance of payments, was a matter of concern. In April 1966, the Geological Survey and the Bureau of Mines began a joint program to stimulate domestic production of a group of metals that were in short supply, about 90 percent of the program effort at the start being on gold because of its international monetary importance. On the basis of the Geological Survey mapping, a mining company located by drilling a major gold mine, the first major gold discovery for several decades. Another major project in the Survey's first year had been a study of the iron-ore resources of the United States. In the early 1900's, it had begun studies of western iron ores in an effort to meet industrial demands. After World Wars I and II there had been major studies of iron districts, and in the late 1960's, appraisals of the iron-ore resources of the United States were again prepared, this time for inclusion in a United Nations survey of the world's iron-ore resources.

Sixty years earlier, the Geological Survey had made its first appraisal of the petroleum resources of the Nation. Periods of oil shortages and oil gluts had followed, but World War II had seriously depleted domestic petroleum resources. The continuing concern over energy resources gave rise to a study of world resources of oil, gas, natural-gas liquids, oil shale, and coal. In the ongoing search for domestic resources, new sources were discovered, but their exploitation was not simple. In 1968, for example, a giant oil field was found in Alaska's Arctic Slope, near where the Survey had first made reconnaissance studies in 1923. The oil would help ease impending shortages but transportation of that oil, whether by tanker or pipeline, posed the possibility of damage to the environment. More than 100 billion tons of coal were estimated to

be potentially recoverable by open-pit mining techniques, but plans had to be developed to restore and utilize the strip-mined lands. About 1.8 million acres of land in the Western States were classified as potential sources of geothermal energy, but a new industry would be required to exploit them. At the same time, new studies and investigations in space, under the sea, and on land were expanded.

The space program was centered in the Astrogeologic Laboratory established in October 1965 in Flagstaff, Arizona. In July 1969, two astronauts, trained by the Survey, walked on the Moon as the program called for by President Kennedy in 1961 met his objective of landing men on the Moon before the end of the decade. A Survey geologist turned astronaut also walked on the Moon in one of the later missions. Director Pecora took a personal interest in a program aimed at gathering facts about the Earth's resources from orbiting satellites carrying sophisticated remote-sensing instruments, and the Geological Survey was given direction and management of an Interior Department program to achieve this goal.

The marine program led to a report on resources of the sea beyond the Continental Shelf, summarizing the potential and known mineral resources and the technology for their exploration and exploitation, presented to the U.S. Economic and Social Council in 1968.

In January 1969, as the Nixon administration took office, oil leaking from a well on a Federal Outer Continental Shelf lease in the Santa Barbara Channel off California blackened nearby beaches and threatened marine life. Studies by a task force including Survey geologists and engineers led to new and more stringent operating regulations to prevent or control such incidents in the future. The Santa Barbara oil spill was a catalyst in the passage of the National Environmental Protection Act in January 1970.

In 1970, the Geological Survey published the "National Atlas of the United States of America," a reference tool comprising more than 700 physical, historical, economic, sociocultural, and administrative maps compiled through the combined efforts of more than 80 Federal agencies and a score of specialists and consultants over a period of several years. In cooperation with the Department of Housing and Urban Development, the Survey began a pilot study in the San Francisco Bay region of the application of geology, geophysics, hydrology, and topography in improving regional urban planning and decisionmaking. The Survey also played a major role in representing the United States at meetings of the United Nations Committee on the Peaceful Uses of the Seabeds and Ocean Floors Beyond the Limits of National Jurisdiction.

In 1971, after Pecora became Under Secretary of the Interior, Chief Geologist Vincent E. McKelvey, a career scientist with the Survey since 1941, became Director. McKelvey, a graduate of Syracuse University with a doctorate from the University of Wisconsin, had served in several research and administrative capacities in the Geo-



**Figure 43.** An oil spill off Santa Barbara, California, in 1969 was a catalyst in the passage of the Environmental Protection Act of 1970.

logical Survey. He was internationally known for his studies of phosphates, had headed the Survey's program of exploration and research for the Atomic Energy Commission for several years, had been deeply involved in sometimes controversial estimates of long-range energy and mineral-resource needs, and had most recently been engaged in studies of seabed resources.

In the year that McKelvey became Director, the Geological Survey had an operating budget of \$173 million and 9,200 employees. Investigations and mapping were underway in all 50 States, Antarctica, and the Trust Territories, and technical-assistance programs were being carried out in Latin America, Africa, and Asia. Great strides had been made toward accomplishing the goals set forth in 1964. General-purpose topographic maps were available for 84 percent of the total area of the 50 States, Puerto Rico, the Virgin Islands, Guam, and American Samoa. Streamflow data were being collected at more than

11,000 gaging stations, water quality was being measured at 4,000 stations, and several hundred ground-water investigations were underway. Mineral production from lands supervised by the Survey was valued at more than \$3 billion, and annual royalties were approaching \$0.5 billion.

McKelvey's term as Director was marked by an increase in multidisciplinary studies and in the diversity and complexity of Geological Survey operations, as well as an increased effort to make scientific information acquired through years of research available in a form most easily used in the solution of such contemporary problems. The pilot study of the San Francisco Bay region was followed by several similar studies of other urban areas. The marine program assumed new significance, for many regions of the oceans were less well known than the surfaces of the planets. Subsea mineral deposits might be resources for the future, but an understanding of the behavior of marine geologic processes was also of importance if people were to



**Figure 44.** Vincent Ellis McKelvey, Director of the U.S. Geological Survey, 1971-1978.

live and build along coasts and out into the sea. The marine-geology investigations included oil-and-gas resource appraisal, environmental investigations assessing the potential impacts of geologic hazards on the development of offshore oil and gas resources, geochemical studies of deep-sea deposits and engineering studies of deep-sea sediments, and the development of deep-ocean remote-sensing instruments. Major efforts were made to delineate the hazards associated with earthquakes, volcanic eruptions, landslides, mudflows, ground subsidence, and floods, and advances were made toward a capability of predicting some of these disasters.

Planetary studies were extended to Mars and other planets. A program to map the geology of Mars systematically, managed by the Geological Survey but involving both Survey and university geologists, was formalized with the National Aeronautics and Space Administration in 1971. A shaded-relief map of Mars was published in 1973, and by the time two Viking spacecraft landed on the surface of Mars in the summer of 1976, at sites selected by scientists at the Survey's Flagstaff, Arizona, office, the Survey had prepared more than 100 maps of Mars, Mercury, Venus, and the Moon in support of space exploration.

The first Earth Resources Technology Satellite (ERTS-1, now Landsat-1) was launched in July 1972,

beginning a new era in the acquisition and management of data. The Geological Survey established a data center at Sioux Falls, South Dakota, to handle distribution of satellite and other remotely sensed data. Investigations of the applicability of the data to geologic, hydrologic, geographic, and cartographic studies were begun.

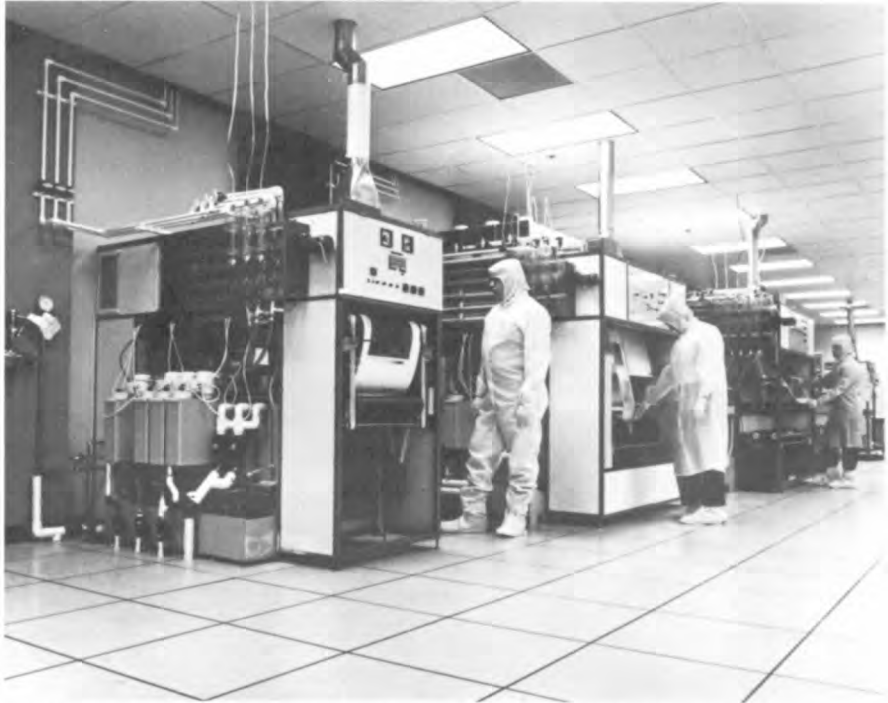
In 1973, the Geological Survey moved its National Headquarters from downtown Washington to a new building designed expressly for its needs in Reston, Virginia. It took on primary responsibility for operational research in seismology and geomagnetism by agreement with the National Oceanic and Atmospheric Administration, and 10 units of NOAA were transferred to the Geological Survey. It also began a Land Resource Analysis program in response to the need for earth-science data in land-use planning and resource management, primarily of nonurban areas not yet critically affected by growth and development but which existing trends indicated were in danger of being seriously impacted in the future.

The long-anticipated energy crisis developed after the Arab-Israeli War in October 1973, when Arab nations embargoed oil shipments to the United States. On November 7, 1973, President Richard Nixon announced measures to address the energy crisis, including increased production from naval oil reserves, approval of the Alaska pipeline, and greater energy research and development efforts designed to make the United States self-sufficient in energy resources by 1980. In 1974, Congress directed the Geological Survey to provide a schedule and objectives for inventorying geothermal energy resources.

In 1974, the National Topographic Mapping Program became the National Mapping Program to meet the increasing demand for basic cartographic data in all forms including digital cartographic data. The National Cartographic Information Center was established to provide a focal point for information on U.S. maps and charts, aerial photographs and space imagery, geodetic control, and related cartographic data. The Geological Survey and the National Oceanic and Atmospheric Administration agreed on a program to produce topographic-bathymetric editions of the 1:250,000-scale maps for the coastal zones of the United States, including those of the Great Lakes.

In April 1975, the Land Information and Analysis Office was established to consolidate several multidisciplinary land-resource and environmental programs. One of its main objectives was to interpret and display land-resource information collected within the Department of the Interior in ways that were readily accessible and understandable to a wide range of users.

In 1976, Congress transferred jurisdiction of the Petroleum Reserve in Alaska from the Department of the Navy to the Department of the Interior, effective June 1, 1977. Responsibility for administration of the continuing petroleum exploration program on the Reserve and operation of the South Barrow Gas Field was delegated to the



**Figure 45.** The photographic processing laboratory at the EROS Data Center, Sioux Falls, South Dakota, 1975.

Director of the Survey. The new activity brought with it a 50-percent increase in funds, but most of the increase was for contractual services.

In 1977, Congress directed the Survey to establish a national water-use information program. It became part of the Federal-State cooperative program and by the late 1980's, 49 States and Puerto Rico were participating in it.

In September 1977, Secretary of the Interior Cecil Andrus announced that he had accepted McKelvey's resignation as Director but that McKelvey would remain with the Survey as a research scientist. In April 1978, H. William Menard became the Survey's tenth Director but remained only through the balance of the Carter administration. Menard, who had graduated from the California Institute of Technology in 1942 and received a doctorate from Harvard in 1949, had been a marine geologist with the Naval Electronics Laboratory in San Diego for several years and then had become a member of the faculty of the Scripps

Institution of Oceanography. In 1965-66, he was associated with the Office of Science and Technology in the White House. A member of the National Academy of Sciences, Menard was a recognized worldwide authority in marine geology and oceanography and had discovered notable topographic and structural features of the sea floor that laid much of the foundation of the plate-tectonics revolution in geology.

## THE SURVEY AT 100

For Menard's first full fiscal year in office, a year that included the centennial of the establishment of the U.S. Geological Survey, the Survey's appropriation was about \$640 million, augmented to 3.7 times the appropriation for the fiscal year 1972 for contractual services in connection with the operation of the National Petroleum Reserve and



**Figure 46.** The Alaska Pipeline, shown here in the Klutina River Valley, was the subject of an intensive environmental-impact investigation before it was approved in 1973.

by the persistent inflation of the 1970's. The total funds available were about \$765 million. The Survey staff numbered more than 12,000 scientists, engineers, technicians, and administrative and support personnel, about three-fourths of them full-time employees.

The 100th anniversary of the establishment of the Survey, one of only a very few Federal agencies to survive for 100 years with its original name and mission unchanged, was celebrated in ceremonies at the National Center and other major facilities on March 2 and 3, an international symposium in the fall of 1979 on resources for the 21st century, in symposia or technical sessions at meetings of the Geological Society of America, the American Association for the Advancement of Science, the American Chemical Society, the American Association of Petroleum Geologists, the National Academy of Sciences, the American Congress on Surveying and Mapping, and the American Society of Photogrammetry, and in articles in newspapers and magazines. The Survey itself issued two special publications--"Maps for America," covering the cartographic products of the Survey and other agencies, and "Minerals, Lands, and Geology for the Common Defence and General Welfare \* \* \* Before 1879," the first of several volumes on

the history of geology in relation to the development of public-land, Federal-science, and mapping policies and the development of mineral resources in the United States.

## INTO THE SECOND CENTURY

Advanced age did not bring about any diminution of activity and change in the Survey, but rather the reverse. The truth of Director Walcott's statement in 1900, "Every investigation undertaken to solve some geologic problem, whether it prove successful or not, is sure to develop other problems, and the geologic Alexander will never lack worlds to conquer,"<sup>38</sup> was never more evident. The Survey's 101st year was marked by the largest earthquake in California in 25 years and the disastrous volcanic explosion of Mount St. Helens. In both areas, geologic-hazards investigations had previously been underway.

The earthquake, on the Imperial fault near the international boundary between the United States and Mexico, on October 18, 1979, caused \$30 million in damage and generated the most comprehensive set of data on ground



**Figure 47.** Henry William Menard, Director of the U.S. Geological Survey, 1978-1981.



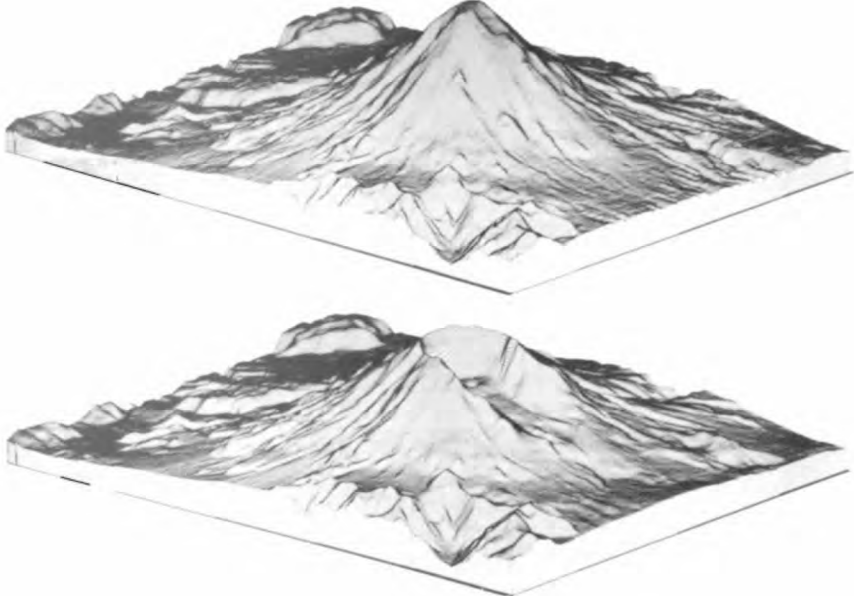
**Figure 48.** A geodolite survey for monitoring motion along a fault in southern California, 1978.

shaking and structural response recorded from a damaging earthquake anywhere in the world. The region had been under intensive study by scientists and engineers of the Geological Survey and other institutions because of the frequent seismic activity and the possibility of a repetition of the Imperial Valley earthquake in 1940, and the shock was thus the first damaging earthquake in California's history for which the actual surface rupture zones had been defined by careful mapping before the event.

The eruption at Mount St. Helens, in the Cascade Range of Washington, on May 18, 1980, removed about 1,300 feet of the mountaintop and filled the valley of the North Fork Toutle River with a massive debris avalanche for a distance of about 17 miles downstream. Survey geologists had pointed out in 1978 that Mount St. Helens, which had a long history of spasmodic explosive activity, would probably erupt violently in the future and that such eruptions would "affect human life and health, property, agriculture, and general economic welfare over a broad area."<sup>39</sup> An earthquake on March 20, 1980, immediately northwest of the summit, followed by a swarm of earthquakes directly beneath the volcano, was recognized as possible symptoms of an impending eruption by University of Washington scientists working in cooperation with the Survey in a study of the geothermal potential of the region. The Geologic and Water Resources Divisions began col-

lecting and assessing data and, with the Office of Earth Science Applications, determined that the possibility of an eruption was great enough to issue a hazard warning. On March 27, the Geological Survey issued a Hazards Watch summarizing the potential hazards from an eruption. That same day, the volcano began to erupt steam and ash. On April 3, and again on April 30, the Survey updated its Hazards Watch, and the Governor of the State established two "hazard zones" into which access was limited. Loss of life on May 18 was thus minimized. Following the first eruption, the Geologic and Water Resources Divisions continued monitoring the volcano, and the National Mapping Division, which had compiled special maps to record preeruption changes, prepared several new special maps to aid general planning by scientists, land managers, law-enforcement officers, and emergency support personnel in the devastated area and for recording scientific and resource data.

Several changes in the Geological Survey's organization were made in fiscal year 1980. In the Office of the Director, the Land Information and Analysis Office was renamed the Office of Earth Science Applications, given more specific responsibilities to coordinate multidisciplinary multidivision programs, and strengthened by the transfer of some elements of the former Publications Division. The National Mapping Division was formed from the



**Figure 49.** Digital maps of Mount St. Helens before and after the eruption of May 18, 1980.

Topographic Division, parts of the Publications Division, and the Geography Program of the former Land Information and Analysis Office. The organization of the Conservation Division was modified to separate onshore from offshore program management, increase the number of geographic service areas, and separate royalty management from field operations.

In January 1981, as the Reagan administration took office, H. William Menard submitted his resignation in order to return to research at the Scripps Institution of Oceanography in California. On September 30, 1981, Dallas L. Peck was sworn in as the eleventh Director of the Geological Survey. Peck, like Menard, was a graduate of the California Institute of Technology, in 1951, and had received his doctorate from Harvard, in 1960. He had spent his entire professional career with the Geological Survey, starting as a field assistant in 1951. Peck had been a research geologist at the Hawaiian Volcano Observatory and had made extensive petrologic studies in the Sierra

Nevada, but for 4 years before becoming Director he had been the Survey's Chief Geologist.

The new administration came to Washington with a promise to increase private access to Federal lands for mineral and energy development, reduce the regulatory role of the Federal Government, accelerate and expand domestic energy and mineral production, and in general to reduce funding and staffing of Federal activities other than those related to national defense and a few other specified areas. For the Geological Survey, there were new responsibilities to replace or merge with ongoing responsibilities. In Alaska, the oil-and-gas assessment program in the National Petroleum Reserve was phased out, but the Alaska Mineral Resources Assessment Program was continued and expanded under the terms of the Alaska National Interest Lands Conservation Act of December 2, 1980.

In January 1982, part of the Survey staff and operating budget were once again split off from the Survey as Secretary of the Interior James Watt announced the formation of the Minerals Management Service. The Conserva-



**Figure 50.** Dallas Lynn Peck, Director of the U.S. Geological Survey, 1981-.

tion Division and part of the marine geology program, some 23 percent of the personnel and 29 percent of the operating budget of the Geological Survey, were reassigned to the new agency, and the Survey reverted to its initial responsibilities to classify the public lands, and examine the geologic structure, mineral resources, and products of the national domain as they had developed in the years since 1879. These were organized in three major programs: the evaluation of the Nation's geologic structure and the geologic processes that have shaped it, the assessment of its mineral and energy resources, and the identification and investigation of geologic hazards; the conduct of the National Mapping Program, involving the collection of cartographic, geographic, and remotely sensed data and production of maps and related cartographic information in graphic and digital form; and the provision of the hydrologic information and understanding needed by others to achieve the best use and management of the Nation's water resources.

New challenges were not long in forthcoming. On March 10, 1983, President Ronald Reagan proclaimed an Exclusive Economic Zone (EEZ), which extended jurisdiction of the United States for a distance of 200 nautical miles seaward of the Nation's shorelines and thereby more than doubled the area of the national domain to be mapped and

within which mineral and energy resources must be assessed. EEZ-SCAN, a reconnaissance survey that uses long-range side-scan sonar to map the 3 million square nautical miles in the zone, began in 1984. The initial atlas of computer-enhanced mosaics, covering the Western Conterminous U.S. portion of the EEZ at a scale of 1:500,000, was published with preliminary geological interpretations and bathymetry in 1986. Other studies provided geologic information on the nature, extent, and cause of coastal erosion for use by various Federal and State agencies in mitigating coastal retreat and land loss.

The National Mapping Division continued the quiet revolution in mapping. The development and application of advanced cartographic techniques and systems to geographic information systems was continued, a National Digital Cartographic Data Base was established, and standards of digital cartographic data were developed for the U.S. mapping community. Primary map coverage for the United States was 97 percent complete in early 1989. In 1988, in cooperation with the Bureau of the Census, the Division completed a 1:100,000-scale digital data base of the transportation and hydrology features of the conterminous United States, which the Bureau of the Census will use to generate more than 500,000 different maps needed to take the 1990 census and which will also be used for many other applications. A major new program was begun in close cooperation with the Defense Mapping Agency to develop, install, and operate new mapping technology using automated computer methods, the goal being to have data for all maps in digitized form so that the maps can be updated easily and graphic products printed on demand. The National Mapping Division was also responsible for all functions that relate to domestic geographic names, and continued to compile, publish, and maintain the "National Gazetteer of the United States of America" and to manage the National Geographic Names Data Base.

Early in 1984, the Water Resources Division published the first "National Water Summary," the product of the national water-use information program, describing hydrologic events and water conditions for the water year, providing a State-by-State overview of specific water-related issues, and identifying ground-water contamination and acid rain as two pressing water-resources issues. To improve the scientific understanding of acid rain, the Geological Survey began a study of the effects of acid deposition on lakes, streams, and aquifers as part of a program coordinated through the Interagency Task Force on Acid Precipitation.

Also published in 1984 were the first six studies of major regional aquifer systems, begun in response to the intense droughts in the late 1970's, to assess the discharge-recharge dynamics, hydrogeologic and chemical controls governing response of aquifer systems to stress, and to develop computer simulation models. Congress authorized



**Figure 51.** Launching the side-scan sonar "fish" during reconnaissance mapping of the U.S. Exclusive Economic Zone off California, 1984.

the Bureau of Reclamation to establish demonstration projects for ground-water recharge of aquifers in the High Plains States.

The disposal and release of hazardous chemical and radioactive wastes and ground-water contamination problems were also under investigation to provide data to help alleviate their effects on the Nation's water resources, some of them to assist the Department of Energy in developing procedures and guidelines for identifying suitable waste disposal sites.

Now several years into its second century, the Geological Survey continues to fulfill its original mission of classification of the public lands and examination of the geological structure, mineral resources, and products of the national domain. It continues to conduct research both on the cutting edge of science and with reference to economic and other issues of national concern, to develop and apply innovative means of solving problems in resource management. It looks forward to a continuing challenge to advance the earth sciences in the service of the public.

## NOTES

1. "classification of the public lands \* \* \*": The phrase is taken from the Organic Act of the U.S. Geological Survey, U.S. Statutes at Large, v. 20, p. 394 [The Statutes at Large are ordinarily cited in abbreviated form as 20 Stat. L., 394].
2. "one-third part of all gold \* \* \*": Ordinance of 1785.
3. "not mineral lands": Opinion of the Attorney General, August 28, 1850.
4. "to examine the geological structure \* \* \*": the phrase is taken from the Organic Act of the U.S. Geological Survey.
5. "few subjects connected with the duties \* \* \*" and "development of these great resources \* \* \*": Lt. Col. John J. Abert, Report of the Chief of the Topographical Bureau, in Report of the Secretary of War: U.S. Congress, 23d, 1st session, House Executive Document 2, 1833, p. 182.
6. "an officer skilled in the sciences \* \* \*": James Whitcomb, Commissioner of the General Land Office, in House Executive Document 239, 26th Congress, 1st session, 1840, p. 7.

7. "to acquire and diffuse \* \* \*": "practical and practical and scientific experiments \* \* \*": An Act to establish a Department of Agriculture, 12 Stat. L., 387.

8. "Eighteen sixty-seven marks \* \* \*": Clarence King, *in* U.S. Geological Survey 1st Annual Report, 1880, p. 4.

9. "classification of the public lands \* \* \*": Organic Act of the U.S. Geological Survey.

10. "classification of the public lands \* \* \*": Organic Act of the U.S. Geological Survey.

11. "practical and general geology and paleontology": Clarence King, *in* U.S. Geological Survey 1st Annual Report, 1880, p. 69.

12. "to continue the preparation \* \* \*": Sundry Civil Expenses Act, August 7, 1882, 22 Stat. L., 329.

13. "accessory": U.S. Geological Survey 7th Annual Report, 1888, p. 11.

14. "adopted": J.W. Powell, *in* U.S. Geological Survey 2d Annual Report, 1882, p. xii.

15. "geologic taxonomy and nomenclature" and "the range of conception \* \* \*": U.S. Geological Survey 10th Annual Report, 1890, p. 57-58.

16. "investigate the operations \* \* \*": Congressional Record, U.S. Congress, 52d, 2d session, p. 6851.

17. "preparation of the geologic map": Sundry Civil Expenses bills, 1888-1893.

18. "locating and representing \* \* \*": House Executive Document 5, U.S. Congress, 52d, 2d session, p. 247.

19. "gauging the streams \* \* \*": 28 Stat. L., 398.

20. "public lands \* \* \*": Forest Management Act, June 4, 1897.

21. "to determine the best method \* \* \*": Congressional Record, U.S. Congress, 54th, 2d session, p. 960.

22. "the standards of the future \* \* \*": C.D. Walcott, *in* Outlook of the geologist in America: Geological Society of America Bulletin, v. 13, 1902, p. 116.

23. "to promote science and literature \* \* \*": The articles of incorporation are described in Science, new ser., v. 13, 1901, p. 921-922.

24. "extending human knowledge \* \* \*": Note signed D.C.G. [Daniel C. Gilman, first president of Johns Hopkins University and first president of Carnegie Institution of Washington], *in* Science, new ser., v. 15, 1902, p. 202.

25. "in no other country \* \* \*": Editorial, *in* Engineering and Mining Journal, v. 77, no. 2, 1904, p. 68-69.

26. "freedom from the encroachments \* \* \*": Editorial, *in* Engineering and Mining Journal, v. 77, no. 8, 1904, p. 309.

27. "to determine their fuel values \* \* \*": 33 Stat. L., 31.

28. "to secure in permanence \* \* \*": President Theodore Roosevelt to the Second Public Lands Commission, October 1903.

29. "department of practical geology": C.R. Van Hise, *in* Science, v. 36, 1912, p. 196.

30. "There can be no applied science \* \* \*": W.C. Mendenhall, *in* G.O. Smith, U.S. Geological Survey 49th Annual Report, 1928, p. 8.

31. "scientific research, technical integrity \* \* \*": Editorial, *in* Engineering and Mining Journal, v. 144, no. 3, 1943, p. 48.

32. "not periodically at wide-spaced intervals \* \* \*": President's Materials Policy Commission, 1952, Resources for freedom, v. 1, p. 2.

33. "to level off peaks and valleys": President Dwight D. Eisenhower, Message to Congress, February 2, 1953.

34. "participate actively and authoritatively \* \* \*": T.B. Nolan, Role of the geologist in the national economy: Geological Society of America Bulletin, v. 73, 1962, p. 273.

35. "landing a man on the moon \* \* \*": President John F. Kennedy, Message to Congress, May 25, 1961.

36. "outside the national domain": 76 Stat. L., 427.

37. "I propose to dedicate this year \* \* \*": President Lyndon B. Johnson, Proclamation on U.S. participation in the International Cooperation Year, June 1964.

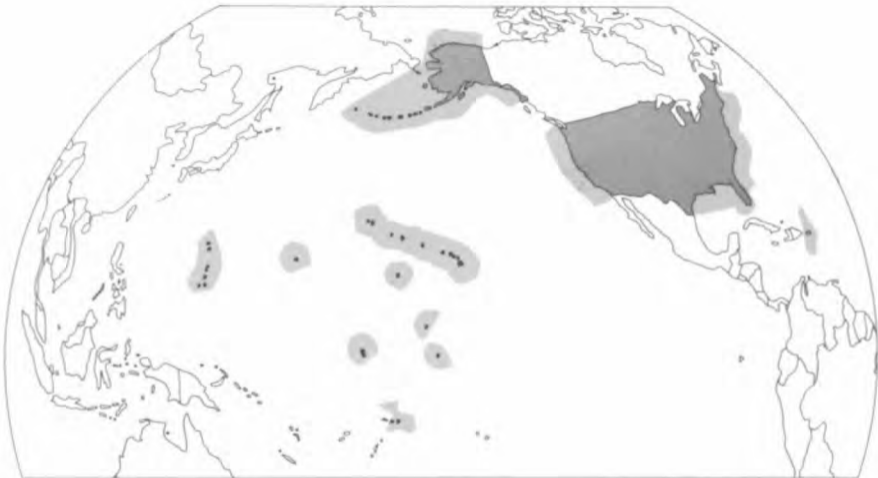
38. See note 22.

39. "affect human life and health \* \* \*": D.R. Crandell and D.R. Mullineaux, Potential hazards from future eruptions of Mount St. Helens Volcano, Washington: U.S. Geological Survey Bulletin 1383-C, 1978, p. C2.

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**Inside back cover.** The national domain, including the Exclusive Economic Zone, in 1989