

PRELIMINARY



INVENTORIES

Number 167

CARTOGRAPHIC RECORDS OF THE FOREST SERVICE

Compiled by Charlotte M. Ashby

The National Archives
National Archives and Records Service
General Services Administration

Washington: 1967

PRELIMINARY INVENTORY OF THE CARTOGRAPHIC
RECORDS OF THE FOREST SERVICE

(Record Group 95)

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FOREWORD

GSA through the National Archives and Records Service is responsible for administering the permanent noncurrent records of the Federal Government. These archival holdings, now amounting to about 900,000 cubic feet, date from the days of the Continental Congresses; they include the basic records of the three branches of our Government--Congress, the courts, and the executive departments and independent agencies. The Presidential Libraries--Hoover, Roosevelt, Truman, and Eisenhower--contain the papers of those Presidents and many of their associates in office. Among our holdings are many hallowed documents relating to great events of our Nation's history, preserved and venerated as symbols to stimulate a worthy patriotism in all of us. But most of the records are less dramatic, kept because of their continuing practical utility for the ordinary processes of government, for the protection of private rights, and for the research use of students and scholars.

To facilitate the use of the records and to describe their nature and content, our archivists prepare various kinds of finding aids. The present work is one such publication. We believe that it will prove valuable to anyone who wishes to use the records it describes.

LAWSON B. KNOTT, JR.
Administrator of General Services

PREFACE

The first step in the records-description program of the National Archives is the compilation of preliminary inventories of the material in some 380 record groups to which the holdings of the National Archives are allocated. These inventories are called "preliminary" because they are provisional in character. They are prepared as soon as possible after the records are received without waiting to screen out all disposable material or to perfect the arrangement of the records. They are compiled primarily for internal use, both as finding aids to help the staff render efficient reference service and as a means of establishing administrative control over the records.

Each preliminary inventory contains an introduction that briefly states the history and functions of the agency that accumulated the records. The records themselves are described series by series; that is, by units of records of the same form or that deal with the same subject or activity or that are arranged serially. Other significant information about the records may sometimes be given in appendixes.

Several finding aids that give an overall picture of materials in the National Archives have been published. A comprehensive Guide to the Records in the National Archives (1948) and a brief guide, Your Government's Records in the National Archives (revised 1950), have been issued. A guide devoted to one geographical area--Guide to Materials on Latin America in the National Archives (1961)--has been published. Forty-four Reference Information Papers, which analyze records in the National Archives on such subjects as transportation, small business, and the Middle East, have so far been issued. Records of the Civil War have been described in Guide to Federal Archives Relating to the Civil War (1962)

and Civil War Maps in the National Archives (1964), those of World War I in Handbook of Federal World War Agencies and Their Records, 1917-1921 (1943), and those of World War II in the two-volume guide, Federal Records of World War II (1950-51). Genealogical records have been listed in Guide to Genealogical Records in the National Archives (1964). Many bodies of records of high research value have been edited by the National Archives and reproduced on microfilm as a form of publication. Positive prints of this microfilm, many of which are described in the List of National Archives Microfilm Publications (1966), are available for purchase.

ROBERT H. BAHMER
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INTRODUCTION

The development of the Forest Service dates from 1876, when the Commissioner of Agriculture was authorized to appoint a special agent to study general forest conditions in the United States (19 Stat. 167). In 1881 a Division of Forestry was established in the Department of Agriculture to function primarily as an investigative and information agency. In 1901 this Division became the Bureau of Forestry (31 Stat. 929), and in 1905 it was renamed the Forest Service.

The General Land Office¹ of the Department of the Interior was responsible for administering forest reserves from 1881, when Congress first authorized the establishment of Federal forest reservations from timberlands on the public domain, to 1905, when this function was transferred to the Forest Service; in 1907 forest reserves were redesignated national forests.

The internal organization of the Service is based on functions that may be summarized as management of national forests and grasslands, cooperation with State agencies and private owners, and research. While organizational divisions have increased in number and have undergone frequent name changes since the Service was established and although activities and responsibilities have broadened, these three basic functions have remained. Because most of the map records pertain to the period 1920-40, they are arranged and described according to the divisional pattern that existed toward the end of this period. The following organization, based on the 1938 directory of the Forest Service, was used in identifying and describing these records:

Chief's Office Divisions

Division of Fiscal Control

Administrative Management and Information Group

Division of Operation

Division of Personnel Management

Division of Information and Education

¹Some maps of forest reserves dated before 1905 are among the records of the General Land Office. See National Archives Special List 19, List of Cartographic Records of the General Land Office, compiled by Laura E. Kelsay in 1964.

National Forests Divisions

Division of Fire Control

Division of Timber Management

Division of Range Management

Division of Wildlife Management

Division of Recreation and Lands

Division of Engineering

Land Acquisition Group

Division of National Forest Planning and Establishment

Division of Land Acquisition

State and Private Forestry

Division of Private Forestry

Division of State Cooperation

Forest Research Divisions

Division of Silvics

Division of Range Research

Division of Forest Products

Division of Forest Economics

Division of Forest Influences

Civilian Conservation Corps Group

Coordinating Division

Camp Programs Division

Enrollee Training Division

The map records not identified with a specific division or office are included under the heading General Cartographic Records.

At the present time most of the work of the Forest Service is decentralized in nine regional offices. The Washington or central office divisions supervise the regional activities and provide leadership and direction. The Division of Engineering, listed as one of the national forests divisions, is responsible for the basic mapping programs of the Service and produces topographic, planimetric, and special maps of the areas administered by the Service. The mapping standards of the Division conform to those of the U.S. Geological Survey and, to prevent duplication, the Forest Service maps only those areas under its supervision that have not been mapped by the Geological Survey.

Since about 1935 aerial photography has been used extensively in mapping. The aerial photographic flights are contracted by the Service to private concerns, and the photographs are used for fire-control purposes and for range and timber surveys.

Although the other Forest Service divisions have not as a general rule been responsible for basic mapping activities, they have used maps as a means of presenting information and as working tools. The map records of these divisions usually consist of base maps, prepared either by the Division of Engineering or by other Government agencies, annotated to show selected information. These map records are more extensive than those of the Division of Engineering and include valuable information about land use, land classification and management, and other research, management, and planning activities of the Forest Service. The maps prepared during the 1930's, when the Forest Service was cooperating with the other Government agencies to improve the country's economic position, provide much information about rural economic conditions.

Most of the maps were prepared in the regional offices at the request of the central office divisions. The directives for the maps were so precise that, in spite of their being prepared in several offices, the maps are generally uniform in appearance and manner of presentation.

The records described in this inventory are the map files of the Forest Service that were in the National Archives on September 22, 1966.²

²Early aerial photographic surveys of the Service, dated from 1934 to 1938, were accessioned by the National Archives after September 22, 1966, and are not described in this inventory.

They are part of Record Group 95, Records of the Forest Service, and amount to 255 cubic feet. There are 14,737 discrete items (reports, atlases, and individual maps). The textual records of the Forest Service have been described in the National Archives' Preliminary Inventory No. 18, Records of the Forest Service (Washington, 1949).

An index to the records described in each entry is included in this inventory. Since many of the entries do not specify all the maps by area, name of national forest or other administrative area, or subject, the index has been designed to provide this information. Names of national forests have been indexed, but no attempt has been made to bring these maps up to date with the continuing name and boundary changes that have occurred since the forests were first established. The index provides the name of the forest appearing on the discrete map record. Many of the index entries refer to series 94, which consists of the project files of the Drafting and Atlas Section of the Division of Engineering. The records in this series relate to many subjects and areas. The individual contents of the folders in the series are described in the appendix. The index entries for this series use a letter-number designation that refers to folder files, as listed in the appendix.

GENERAL CARTOGRAPHIC RECORDS

The general cartographic records described below belong to a mass of records that were transferred from the Forest Service without identification as to their origin within the organizational framework of that agency. They have been arranged and are described in series according to subject matter.

1. MAP OF THE UNITED STATES SHOWING THE FIELD ORGANIZATION OF THE FOREST SERVICE AND THE PRINCIPAL AGENCIES COOPERATING WITH THE SERVICE. ca. 1939. 1 item.

A base map, dated 1939, annotated to show regional boundaries and State and regional headquarters offices of the Forest Service, the National Resources Planning Board, the Soil Conservation Service, and the Farm Security Administration. Also shown are the headquarters offices of State foresters and locations of State agricultural colleges.

2. MAPS OF THE UNITED STATES AND PARTS THEREOF SHOWING NATIONAL FORESTS. 1908-55. 35 items.

Published maps of the United States showing locations of national forests, Forest Service districts or regions and regional headquarters, and forest products laboratories; some editions also show State forests, Indian reservations, Bureau of Reclamation project areas, national parks and monuments, and Forest Service purchase areas and those areas in which purchases were to be authorized by special acts of Congress; and one edition, dated 1908, also shows the amount of lumber cut in each region in 1906. There are also published maps of the Eastern United States showing national forests, purchase areas, and shelterbelt areas in 1935 and national forests, purchase units, and the Prairie States Forestry Project in 1938 and 1939. Arranged chronologically.

3. PRESIDENTIAL PROCLAMATIONS, EXECUTIVE ORDERS, AND MAPS RELATING TO THE ESTABLISHMENT OF AND CHANGES IN FOREST RESERVES AND NATIONAL FORESTS. 1891-1935. ca. 1,350 items.

A two-part series. The first part consists of bound volumes of printed proclamations or orders dated from 1891 to March 1, 1907, arranged chronologically. The proclamations and orders dated from 1891 to October 3, 1905, are accompanied by printed base maps annotated to show boundaries of the forest as established by or changed by the proclamations or orders, and those dated after October 3, 1905, are accompanied by printed maps incorporated with the documents. The second part of the series consists chiefly of printed documents and related maps dated since March 2, 1907, which are arranged alphabetically by name of national forest and thereunder chronologically by date of document. A few proclamations and maps relating to national parks are included.

4. MAPS OF NATIONAL FORESTS ILLUSTRATING WITHDRAWALS AS AUTHORIZED BY EXECUTIVE ORDERS. 1914-22. 16 items. Annotated.

5. MAP OF THE UNITED STATES SHOWING COMPARATIVE AREAS OF NATIONAL FORESTS. 1937. 1 item. A manuscript diagrammatic map.

6. MAPS OF THE UNITED STATES SHOWING RECOMMENDATIONS FOR NATIONAL FORESTS. 1935 and 1942. ? items.

A published map, dated 1935, showing present and recommended national forests and a map annotated to show eliminations from and accretions to national forests as recommended

by the National Forest Resources Committee in 1942.

7. **MAPS AND GRAPHS SHOWING PRESENT AND RECOMMENDED OWNERSHIP, USE, AND MANAGEMENT OF FOREST LAND IN THE UNITED STATES.** n. d. 6 items.

Printed maps showing the existing dominant ownership and dominant intensity of management of forest lands and that recommended by the Forest Service. The graphs show, by State, existing ownership and recommended use of forest lands.

8. **"OLD STATISTICAL DIAGRAMS 1908 to 1913 [1919]."** 1 item.

A bound volume of 57 maps, charts, and tables containing the following information about national forests: the annual costs for administering each, the number of permits issued for special uses of forest lands, settlements by kind, receipts from uses and settlements, damages caused by forest fires, distribution of commercial trees and the amount and value of cut lumber, kinds of employment on forest lands, trespassers, and the dates of establishment of each forest.

9. **MAPS SHOWING SELECTIONS FOR THE MINNESOTA FOREST RESERVE.** 1903. 3 items.

Manuscript maps consisting of two versions of a map showing first selections for the forest reserve and a map showing lands withdrawn pending final selections for the reserve. These maps were compiled in the Bureau of Forestry of the Department of Agriculture.

10. **MISCELLANEOUS MAPS OF NATIONAL FORESTS SHOWING CHANGES AND RECOMMENDED CHANGES.** 1908-37. 15 items.

A map of the Ashley National Forest, Utah and Wyo., annotated to show additions in 1931; a map of the Clearwater National Forest, Idaho, annotated to show lands added by the abandonment of the Selway National Forest, lands transferred from the St. Joe National Forest to the Clearwater National Forest, and lands transferred from the Clearwater to the Lolo National Forest, 1931-35; a map annotated to show proposed additions to the Columbia National Forest, Wash., 1937; a map of the Dixie National Forest, Utah and Nev., showing lands recommended for purchase, ca. 1933; a map annotated to

show the division of the Gila Forest Reserve, N. Mex., into the Datil and Gila National Forests; a map annotated to show a boundary adjustment to the Grand Mesa National Forest, Colo., ca. 1922; a map of the Francis Marion National Forest, S. C., annotated to show boundary changes, 1936; a map of the Idaho National Forest, Idaho, annotated to show eliminated lands, 1940; a map of the Kaibab National Forest, Ariz., annotated to show lands eliminated for the Grand Canyon National Park, 1919; a map of the Olympic National Forest, Wash., annotated to show public domain, areas offered under the exchange act of 1922, and accepted areas; a map of the Kaniksu National Forest, Idaho, annotated to show the new boundary and excluded areas, 1922; a map of the Ozark National Forest, Ark., annotated to show non-Government lands; a map of the Santa Fe National Forest, N. Mex., annotated to show resettlement areas transferred to the national forest and lands added to Grazing District 1; a map of the Sierra National Forest, Calif., annotated to show the new boundary and areas covered by sales contracts, ca. 1927; and a map of the Sioux National Forest, S. Dak. and Mont., annotated to show eliminations, ca. 1919. Arranged alphabetically by name of forest.

11. **MAPS SHOWING WILDERNESS AND WILD AREAS.** 1928-61. 6 items.

Printed maps of the Western United States and Minnesota, one dated 1947 and the other undated, showing wilderness and wild areas. National forests and purchase units are also shown on the 1947 map. There is also a base map of California annotated in 1928 to show wilderness areas and national forests, parks, and monuments.

12. **MAP OF THE UNITED STATES SHOWING THE MOST CRITICAL WATERSHED, EROSION, AND SUBMARGINAL AREAS IN NATIONAL FORESTS.** n. d. 1 item. Photoprocessed.

13. **MAP OF THE UNITED STATES SHOWING THE RELATIVE INFLUENCE OF FORESTS ON WATERSHED PROTECTION.** n. d. 1 item. Published.

14. **LAND CLASSIFICATION MAPS.** 1908-49. 22 items. Three versions, two manuscripts and one

published, of a map of North America, ca. 1908, showing absolute forest, agricultural, grazing, and barren lands; a panel of maps of the United States showing national forests in 1895, 1900, 1905, 1910, 1915, and 1940, prepared for a study of forest land classification; maps of parts of the Western United States annotated in the Forest Service regional offices in 1913 for use in the "Public Use . . . [and] Red Book[s]," showing commercial timber areas, woodlands, and agricultural, grazing, and barren lands; base maps of Alabama, Maine, Utah, and a part of the Lewis and Clark National Forest prepared for the forest land classification studies and copies of these base maps annotated in colors to show forest land classification data; a map of part of Indiana in Morgan, Perry, Clark, and Pike Counties annotated to show agricultural areas and areas in which 75 percent or more of the land is better suited to forestry than agriculture; and a base map for a forest land classification study of the Pike National Forest, Colo. Arranged by area.

15. MAPS SHOWING QUADRANGLE NAMES AND TRIANGULATION STATIONS. 1911. 36 items.

Photoprocessed copies of Post Office maps of States and groups of States that had been previously annotated to show quadrangle names, triangulation stations, primary traverse lines, and level routes. Arranged numerically by map number and accompanied by a map of the United States on which the map numbers are indexed by coverage.

16. MAPS OF THE NORTH-CENTRAL AND NORTHWESTERN UNITED STATES SHOWING THE DEVELOPMENT OF TERRITORIAL AND STATE BOUNDARIES. n.d. 4 items.

Base maps of parts of the United States annotated to show boundaries as described in Henry Gannett, Boundaries of the United States (3d ed.; U.S. Geological Survey Bulletin 226, Washington, 1904).

17. ISOGONIC MAPS OF THE UNITED STATES AND CANADA. 1950-51. 2 items.

Manuscript maps. The map of the United States was prepared by the U.S. Coast and Geodetic Survey; that of Canada, by the Canadian Department of Mines and Resources.

18. MAPS OF THE EASTERN UNITED STATES SHOWING RAILROADS AND CANALS, 1840-1915. 1922. 1 item.

A panel of four manuscript maps showing

railroads in operation in 1840, 1850, and 1860; and the canals and principal canalized rivers abandoned before 1915 and those in use in 1915. Names of railroads and canals are listed and keyed by number to the proper location on each map.

19. STATE MAPS SHOWING NATIONAL FORESTS. 1930-39. 19 items.

Printed maps, dated 1930-39, and one manuscript map without date. Arranged alphabetically by name of State.

20. MAPS SHOWING BOUNDARIES AND PROPOSED BOUNDARIES OF NATIONAL PARKS AND MONUMENTS. ca. 1911-39. 18 items.

A map of Sequoia National Park, Calif., ca. 1911, annotated to show the boundary extension proposed by the Sierra Club, park administrative sites, easements, rights-of-way, patented and pending lands, timber and mineral entries, State selections, and reconveyances; a map of the Stanislaus National Forest, Calif., 1924, showing locations of big trees and annotated to show proposed park boundaries and plans of townships within the forest showing number and kind of trees within quarter sections; a map of Kentucky annotated to show counties to be included in the Breaks of Sandy National Park, 1939; an undated map annotated to show boundary changes in the Boulder Dam Recreation Area, Ariz.-Nev.; an undated map annotated to show proposed timber additions to the Grand Canyon National Park, Ariz., maps showing boundary changes in the Colonial National Monument, Va., 1952, the Scotts Bluff National Monument, Nebr., 1949, and the Chiricahua National Monument, Ariz., 1938; a map annotated to show the established boundaries of the Mammoth Cave National Park, Ky., ca. 1933; and an undated map annotated to show the approximate boundary of the Big Bend State Park, Tex. Arranged alphabetically by area.

21. MAPS SHOWING CONFLICT BETWEEN PROPOSED BOUNDARY OF GREAT SMOKY NATIONAL PARK AND THE CHEROKEE NATIONAL FOREST, TENN. 1940. 3 items.

Topographic quadrangles covering the area of conflict annotated to show the boundaries of the park and the forest as described in the respective proclamations, the boundary of the proposed enlargement of the park, and areas of conflict with the national forest.

22. MAP OF THE UNITED STATES SHOWING THE ACREAGE OF STATE-OWNED FORESTS AND PARKS. 1930. 1 item.
A manuscript map. Information is given by State.
23. MAPS SHOWING FOREST REGIONS AND THE DISTRIBUTION OF INDIVIDUAL SPECIES OF TREES. 1910-48. 23 items.
One published and one annotated map of the United States showing forested areas, published maps of the United States showing original timber regions and forests by major tree species, and published maps of States and parts of States showing major tree species. Arranged by area.
24. MAPS OF THE UNITED STATES SHOWING INFORMATION ABOUT COMMERCIAL TIMBER. 1915-27. 17 items.
Published maps consisting of a map, dated 1915, showing graphically by State the amount and major kind of timber available; a map, dated 1916, showing by State the distribution of principal commercial species of trees; a map, dated 1916, showing by region the relation of lumber cut and mill capacities to standing timber; maps, dated 1926 and 1927, showing headquarters of principal softwood lumber manufacturers' associations and woods in which grading rules applied, with tables giving information about comparable grades of lumber products; an undated photoprocessed map showing national forests by State with annotations to show ownership of commercial forest lands and the application of reasonably good private forest practices; and a series of 11 base maps of the United States, annotated to show by county and by kind of tree the amount of lumber cut in 1917.
25. MAPS AND GRAPHS RELATING TO FOREST REGIONS AND WOOD PRODUCTION IN THE WORLD. 1909-44. 35 items.
Published maps showing forest regions of the world and of Africa, Asia and parts of Asia, Australasia, Canada and Newfoundland, Europe and parts of Europe, and parts of Latin America, including the Caribbean area; a world map annotated to show important timber trees; undated maps of the world showing virgin shelter forests and rubber plantations by kind of tree; manuscript worksheets, several of which were compiled by Raphael Zon in 1922, showing forest regions by kind in Europe, Central Europe, and Poland; and statistical graphs showing forest acreage and production of forest resources by country. Some of the graphs were prepared during World War I and show forest acreage and lumber production of the Allied Powers, Central Powers, and neutral countries.
26. MAPS SHOWING PAPERMILLS, PULPMILLS, AND BOARD MILLS. 1915-37. 16 items.
Manuscript maps of the world, of individual continents, and of the United States showing papermills and pulpmills, 1917-22; a photoprocessed map, compiled in 1915 by the New England Paper and Pulp Traffic Association, showing papermills and board mills of the Eastern United States and Canada and the productive capacity of each; manuscript maps of the United States, 1917, showing sulphate, sulphite soda, and ground-wood pulpmills; and a manuscript map of the Southeastern United States, 1937, showing locations of papermills and pulpmills using wood as raw material.
27. MAP OF THE UNITED STATES SHOWING BY STATE SOME CONIFEROUS TREES SUITABLE FOR PLANTING ON FARMS. 1924. 1 item.
Manuscript.
28. MAPS OF WISCONSIN AND MINNESOTA SHOWING TIMBER-USING INDUSTRIES. 1915. 2 items.
Manuscript.
29. MAPS OF TEXAS SHOWING LIFE ZONES, VEGETATION, RAINFALL REGIONS, NATURAL REGIONS, AND THE DISTRIBUTION OF DIFFERENT SPECIES OF TREES. n. d. 4 items.
Two panels, with a total of nine published maps, and two separate published maps.
30. MAPS OF THE UNITED STATES SHOWING DATA FROM ECONOMIC STUDIES OF RURAL AND FOREST LANDS. 1929-35. 39 items.
Manuscript and annotated maps showing rural population and forest lands in relation to total population, farm income, and expenditures; number of persons engaged in farming; percent of population receiving relief; increase or decrease in farmlands and migration of farm families; and submarginal farmlands, recommendations for use, and long-range plans for reforesting some of these lands.
31. ILLUSTRATIONS RELATING TO FARM AND COMMUNITY DEVELOPMENT. n. d. 12 items.
Diagrams relating to general methods of farm and community development and maps showing the Koochiching Project, Minn., the Duluth &

Iron Range Railroad grant, St. Louis County, Minn., and the Vallee Settlement, Rusk County, Wis.

32. MAPS AND RELATED RECORDS PERTAINING TO ECONOMIC STUDIES OF THE LAKE STATES. 1940. 25 items.

Manuscript maps, including a map of Minnesota, Wisconsin, and Michigan, showing national, county and State forests, Indian lands, and CCC camps by agency of control; a map of the United States showing graphically the important features that characterized the position of the three Lake States in the national economy; a series of maps showing rural-industrial and rural-agricultural counties in the three States, counties with more than 50 percent of lands in farms, concentrations of publicly owned lands, idle lands that could be restored by reforestation, the percentage of unemployment, the percentage of farms with gross income under \$600, the distribution and condition of major forest lands, the development of farms since 1860, private lands of more than 50,000 acres, major kinds of employment in urban centers, population distribution, distribution and density of the farm areas, important physical limitations, pattern of forest economy based on proportion of workers in forest industries, pattern of Lake States economy based on proportion of gainfully employed workers in important basic industries, the trade network of the area, tax-delinquent lands, principal outdoor recreation areas, and mineral resources; a chart showing the number of men gainfully employed in rural-industrial and rural-agricultural sections; and a title sheet for the series.

33. MAPS AND A GRAPH PERTAINING TO STUDIES OF LAND USE IN DORCHESTER TOWNSHIP, N.H. 1934. 7 items.

Manuscript maps compiled from studies made by Harry C. Woodworth in association with the New Hampshire Agricultural Experiment Station of the University of New Hampshire, including a location map and maps showing land-ownership, forest types, ages of forests, soils suitable for crops, and the decline of farming since 1860, and a graph showing the rehabilitation plan for the development and improvement of forests.

34. MAP OF THE CHIPPEWA NATIONAL FOREST, MINN., SHOWING RECOMMENDED LAND USE. 1935. 1 item.

Shows areas recommended by local people for permanent communities, recreation, Indians, wildlife, and multiple-use forestry purposes.

Included is an inset enlargement of the town of Remer and vicinity showing the families living inside the Remer farming area and those living outside the area, national forest lands to be used as trading stock with families living outside the Remer farming area, and national forest lands outside the area.

35. MAPS FROM STUDIES OF THE MISSOURI RIVER BASIN. 1948-49. 4 items.

Manuscript and published maps showing natural lakes, existing and proposed reservoirs, national forests, major water-management regions, and annual water yield; and an unfinished land-use map of the South Platte area, Pike National Forest.

36. MAPS OF THE RIO GRANDE VALLEY. 1930. 3 items.

Published maps 7 and 9 of the Department of Agriculture Flood Control Study of the Rio Grande valley, showing natural vegetation and ground cover as mapped by the Forest Service; and a manuscript map of the Rio Grande valley above Elephant Butte Dam, showing national reserves.

37. MAP OF THE COLUMBIA RIVER BASIN SHOWING A PROPOSED LAND-MANAGEMENT PROGRAM IN 1934. ca. 1935. 1 item.

A map of the Columbia River basin, with annotations showing national forests; lands chiefly valuable for watershed, timber, or grazing purposes; and lands proposed to be added to national forests. A legend lists by State the acreages of lands proposed to be added to national forests and the acreages of land according to their primary values.

38. MAP SHOWING INTERMINGLED LAND-OWNERSHIP IN THE CHALLIS, SALMON, AND SAWTOOTH NATIONAL FORESTS, IDAHO. 1951. 1 item.

An annotated map, noted as prepared for hearings.

39. PRINTED MAPS OF WEST SIDE ROAD NO. 895, HUNGRY HORSE RESERVOIR, MONT. ca. 1949. 2 items.

Tables and diagrams on the maps show the volume of traffic, amount of logging, and expenses for constructing the road. One map is dated 1949; the other has additional notes about road costs but is undated.

40. SOIL AND VEGETATION MAPS. 1940. 2 items.
A manuscript map of Tom Swamp Block, Harvard Forest, Mass., showing soil types and noted as "retraced, U.S.F.S.W.O., 1940, E. Richards," and a manuscript map of the Lake Gogebic Unit, Ontonagon and Gogebic Counties, Mich., showing types of cover.
41. MAPS OF THE WAGON WHEEL GAP EXPERIMENT STATION, COLO. 1927. 6 items.
Manuscript maps from cooperative studies made by the Forest Service and the Weather Bureau in connection with the Mississippi River Flood Control Project. These maps show meteorological stations, snow-scale areas, topography, water sources, temperature stations, and forest cover.
42. MAP OF THE NORTHERN UNITED STATES SHOWING A TRANSCONTINENTAL ROUTE BETWEEN PORTLAND, MAINE, AND PORTLAND, OREG. 1931. 1 item.
This manuscript map also shows the site of the Roosevelt Memorial, Mont.
43. RIGHTS-OF-WAY MAPS. ca. 1890-1913. 1, 200 items.
Photoprocessed copies of rights-of-way maps of railroad, telephone and telegraph lines, canals, ditches, and reservoirs crossing national forest lands. Arranged alphabetically by name of national forest.
44. MAP SHOWING THE MAIN AND BRANCH LINES OF THE NORTHERN PACIFIC RAILROAD. 1940. 1 item.
A manuscript map of the main-line and land-grant limits of the Northern Pacific lying between Ashland, Wis., Portland, Oreg., and Tacoma, Wash., with insets showing proposals made in 1864 and 1870 for branch-line locations. It is noted that the map was prepared for a Mr. Burch and a print was used by the Department of Justice in litigation. This map and the following two series of maps were prepared by the Forest Service for the use of the Department of Justice in connection with the Northern Pacific Railroad's suit involving lands within its grant limits that the railroad claimed it had not received.
45. MAPS SHOWING LAND-GRANT LIMITS OF THE NORTHERN PACIFIC RAILROAD LYING WITHIN NATIONAL FORESTS. 1930. 28 items.
Annotated maps. Arranged alphabetically by name of national forest. See entry 44.
46. MAPS SHOWING PATENTED UNSOLD LANDS OF THE NORTHERN PACIFIC RAILROAD LYING WITHIN NATIONAL FORESTS. 1930. 27 items.
Annotated maps. Arranged alphabetically by name of national forest. See entry 44.
47. MAP OF PUERTO RICO SHOWING LAND-MANAGEMENT ACTIVITIES OF FEDERAL AGENCIES. 1949. 1 item.
Manuscript.
48. MAPS AND RELATED RECORDS PERTAINING TO STUDIES OF FORESTS IN THE PHILIPPINE ISLANDS. 1904-9. 3 items.
A map of the archipelago annotated to show forest district stations and boundaries and forest nurseries; a 10-sheet map of the archipelago annotated to show commercial and noncommercial forest lands, cultivated lands, open lands, mangrove swamps, and pine regions, 1909; and a written description of the Lamoia Forest Reserve, 1904.
49. MAPS AND GRAPHS RELATING TO WATER-POWER RESOURCES IN SOUTHEASTERN ALASKA. 1914-25. 47 items.
Published maps and graphs prepared in 1925 to accompany a report to the Federal Power Commission, including location maps of southeastern Alaska and parts thereof, diagrams showing mean monthly discharge at USGS gaging stations, area and capacity curves for selected reservoir sites, and monthly and annual precipitation at selected sites; photoprocessed maps of parts of southeastern Alaska showing waterpower possibilities; manuscript mass diagrams showing monthly flow, in thousands of feet, at selected water bodies for the period 1918-21; and photoprocessed topographic maps of project areas in the Tongass National Forest, prepared during a waterpower reconnaissance in 1925.
50. MAP OF TONGASS NATIONAL FOREST, ALASKA, SHOWING AERIAL PHOTO-RECONNAISSANCE FLIGHT LINES. 1927. 1 item.
Photoprocessed.
51. MAP SHOWING MINERAL RESOURCES IN THE USSURI REGION AND SAGHALIEN ISLAND, SIBERIA. n. d. 1 item.
Manuscript.

52. MAPS SHOWING PROPOSED ORGANIZATION CHANGES IN REGION 1. 1930. 15 items.
Two published maps of the region annotated to show alternate plans for proposed forest units and maps of national forests within the region annotated to show proposed ranger districts.
53. MAP OF REGION 2 SHOWING PROPOSED TIMBER AND WATERSHED ADDITIONS. ca. 1932. 1 item.
Annotated.
54. MAP OF REGION 3 SHOWING PRINCIPAL PRIME SAWTIMBER AREAS. 1913. 1 item.
This published map also shows the estimated amount of timber in each area.
55. MAP OF REGION 6 SHOWING PROPOSED BOUNDARY CHANGES WITH REGION 1. 1930. 1 item.
Annotated.
56. MAP OF REGION 6 SHOWING CCC CAMPS. n.d. 1 item.
Printed.
57. MAP OF THE UNITED STATES SHOWING POPULATION DISTRIBUTION. n.d. 1 item.
A processed map, with annotations showing the population of Region 9 and the population within a 300-mile radius of the centers of each of the five States forming the region.

RECORDS OF THE OFFICE OF THE CHIEF

Until 1935 the head of the Forest Service was known as the Forester; since then he has been designated Chief. The records herein described include some maps prepared for the use of Dr. Ferdinand A. Silcox, who was head from 1933 to 1939, and some records of several central or headquarters offices attached to his office.

58. ILLUSTRATIONS FOR AN ADDRESS GIVEN BY DR. SILCOX ON APR. 24, 1934. 1934. 22 items.
Manuscript maps and other graphic materials consisting of base maps of the United States annotated to show forest regions, national forests, watersheds important to forests, natural forest areas where serious erosion existed, rates of exhaustion of forests, States importing lumber by amount of importations, States with highest employment in lumber industries and number of persons employed, States with the highest densities of population, percentages by State of lands reverting to public ownership because of tax delinquencies, and primitive areas and game animals within national forests; and graphs and tables showing total area in forest lands, uses of forests and lumber products, lumber production, and ownership, devastations of forest lands, and requirements of forest lands.

RECORDS OF THE DIVISION OF FISCAL CONTROL

This Division, now known as Budget and Finance, was one of the administrative divisions in the Chief's Office.

59. "FOREST FIRE DEFENSE MAPS THIRD DEFICIENCY ESTIMATES." 1941-42. 9 items.
Maps of several of the national forest regions and of a few individual national forests annotated to show approved and unjustified national defense fire-protection areas.

RECORDS OF THE DIVISION OF OPERATION

During World War II the Division of Operation, in the Chief's Office, supervised special war-connected projects conducted by the Forest Service. The emergency rubber project, conducted for the purpose of raising certain kinds of rubber in this country, was one of these.

60. MAPS RELATING TO GUAYULE PRODUCTION. 1942-43. 3 items.
Published maps, including a preliminary map showing potential guayule planting sites in the State of California and soils suitable for guayule in the northern and southern parts of the San Joaquin Valley, Calif.

RECORDS OF THE NORTHEASTERN TIMBER SALVAGE ADMINISTRATION

The New England hurricane in September 1938 blew down millions of trees. Various Government and private agencies were asked to cooperate in the salvage, conservation, and marketing of the blowdown timber. A Northeastern Timber Salvage Administration was organized to handle this cooperative activity, and the Chief of the Forest Service was appointed as its head.

61. MAPS FROM STUDIES OF FOREST LANDS IN THE NEW ENGLAND REGION. ca. 1938. 5 items.

Base maps of the New England region annotated to show the distribution of forests (two

versions), the distribution of population, major land-use areas and the relative predominance of forest lands in each, and the extent of blown-down timber and forest-fire hazard caused by the 1938 hurricane.

RECORDS OF NATIONAL FORESTS DIVISIONS

RECORDS OF THE DIVISION OF ENGINEERING

An Office of Engineering, responsible for the construction of roads, trails, telephone lines, and other permanent improvements in national forests, was established in the Branch of Operations in 1907. In 1908 this Office was superseded by the Office of Geography, which was also charged with the examination of General Land Office records relating to land titles, the compilation of "Forest Atlases" (a function previously assigned to the Office of Forest Management), and the photographic and cartographic work of the Forest Service. Several organization changes occurred between 1908 and 1935, when the Division of Engineering was established. The functions of this Division, while considerably broadened, remained essentially the same as those of its predecessors.

62. REPORT ON CONVENTIONAL SIGNS AND SYMBOLS USED ON MAPS PREPARED BY DIFFERENT NATIONS. 1908. 1 item.

An 18-page report showing the tentative scheme to be adopted by an international commission on mapping. The Forest Service's Office of Geography prepared this report for the Secretary of Agriculture.

63. MAP OF THE UNITED STATES SHOWING THE STATUS OF TOPOGRAPHIC MAPPING IN NATIONAL FOREST AREAS. 1949. 1 item.

Published.

64. SPECIMEN MAPS AND INSTRUCTIONS FOR THE PREPARATION OF FOREST SERVICE MAPS. 1907-35. 7 items.

Legends, map instructions, specimen maps, and the program for the preparation of the Forest Atlases; a list of tree types to be platted on maps of the Great Basin and eastern Montana; specimens for the standard 1-inch-to-2-mile and 1-inch-to-4-mile maps of national forests; a booklet giving conventional signs, legends, and forms for Forest Service administrative maps; a printed handbook for the use of engineers in Region 9 containing information about mapping and surveying, roads and trails,

waterpower, and improvements; and a printed brochure entitled "Why is a Contour?" by M. W. Talbot.

65. FOREST ATLASES. 1908-25. 173 atlases.

Published atlases containing maps of individual national forests, each map of which is in several sheets. Included in each atlas are maps showing vegetation, stands of commercial timber, grazing information, mining areas and claims, and species of trees. The format of the atlases has changed over the period of publication, and those issued since 1914 also show park areas, timberlands, woodlands, brush, and alienated lands. Arranged alphabetically by name of national forest.

66. MAPS OF FOREST SERVICE REGIONS. 1911-40. 44 items.

A record set of published maps of Forest Service regions, formerly called districts. These maps, which were prepared in the local district or regional offices, show national forests, parks and monuments, Indian reservations, Forest Service regional headquarters, supervisors' offices, and district rangers' offices. They also show county seats, lines of public surveys, and roads. Some of the maps also show kinds of trees. Arranged by region number and thereunder chronologically by date of publication.

67. MAPS OF FOREST RESERVES. n.d. 2 items.

Published maps of the Ashland Forest Reserve, Oreg., and the Pikes Peak Forest Reserve, Colo.

68. MAPS OF NATIONAL FORESTS. 1911-60. 2,050 items.

A record set of published maps of national forests and parts of national forests prepared in the regional offices following standards devised by the Division of Engineering. These maps, on scales ranging from 1 inch to 1 mile to 1 inch to 4 miles, show the national forest boundaries, State and county boundaries, game and bird refuges, primitive areas, roads and their

condition, trails, telephone and railroad lines, forest supervisors' headquarters, ranger and guard stations, triangulation stations, camp sites, houses and buildings, and airfields. Some versions also show acquired forest lands, lands to be acquired, and purchase units. Arranged alphabetically by name of national forest and thereunder chronologically by date of edition.

69. MAPS OF RANGER DISTRICTS. 1939-47. 100 items.

A record set of published maps of ranger districts within national forests, prepared in the regional offices. These maps give the same information as the national forest maps described in entry 68. Arranged alphabetically by name of national forest and thereunder by name of ranger district.

70. MAPS OF PURCHASE UNITS. 1935-36. 75 items.

A record set of published maps of purchase units, prepared in the regional offices. These maps give the same information as the national forest maps described in entry 68. Arranged alphabetically by name of purchase unit.

71. TOPOGRAPHIC QUADRANGLES. 1937-47. 44 items.

Advance sheets, published on a scale of 1:63,360, dated 1937-40 and covering miscellaneous areas in and near national forests; and 16 finished published sheets dated 1947 and covering the Prescott National Forest, Ariz., on the same scale. Arranged alphabetically by name of national forest and thereunder by name of quadrangle.

72. MAPS OF PUERTO RICO. n. d. 4 items.

A published contoured map showing completed and projected roads, trails, telegraph lines, and canals; a photoprocessed map showing percent of forest cover including coffee plantations; and a manuscript base map showing roads, communication lines, canals, national forest boundaries, and purchase units with an overlay showing contours.

73. MAP OF THE STATE OF WASHINGTON. 1933. 1 item.

A large-scale published map prepared by the Forest Service in cooperation with the State, showing national forest and other boundaries, roads, and railroads.

74. MAP OF THE BLACK HILLS AREA, S. DAK. AND WYO. 1927. 1 item.

A published map showing national forest

boundaries, ranger stations, roads, campgrounds, and game refuges.

75. TRANSPORTATION MAPS. 1962. 592 items.

Photoprocessed copies of maps of national forests and parts of national forests, experimental forests, grassland areas, land-utilization project areas, land-use area, and national forest purchase units annotated in colors to show the transportation plan or system for each. Included are maps identified as "All Purpose Transportation System Maps," "Transportation Plan Maps A," "Transportation Plan Maps B," and some miscellaneous maps. Roads and trails are shown by class or type of maintenance, and other transportation facilities, such as railroads and airfields, are included. In addition there are manuscript overlays for national forests and related areas also showing roads. Arranged alphabetically by name of forest or other project area.

76. TOPOGRAPHIC AND GRAZING RECONNAISSANCE SURVEY MAP OF PRYOR MOUNTAIN DIVISION, BEARTOOTH NATIONAL FOREST, MONT. 1917. 1 item. Photoprocessed.

77. MAP AND CHART RELATING TO MAPPING ACTIVITIES IN REGION 3. 1912-13. 2 items.

A published map of the region showing the extent of surveys of national forests and areas where mapping is necessary; and a chart listing the extent of area covered by intensive reconnaissance, the extent covered by standard surveys, the extent of area unsurveyed, and available maps--by kind--for each national forest within the region.

78. PHOTOMAPS OF THE ANGELES NATIONAL FOREST AND OF PART OF THE COAST OF CALIFORNIA. 1939. 2 items. Compiled in Region 5.

79. MAP OF CALIFORNIA SHOWING POWER-PLANTS AND WATER STORAGE DEVELOPMENTS. 1930. 1 item.

A published map. Hydroelectric and steam-generating powerplants and proposed and existing water storage developments are distinguished.

80. MAPS OF TRAILS IN OREGON AND WASHINGTON. 1935-38. 4 items.

Published maps of the Oregon Skyline, the Cascade Crest, and the Caribou Trails.

81. PHOTORELIEF MAP OF THE HEADWATERS OF THE STEHEKIN RIVER, CHELAN NATIONAL FOREST, WASH. n. d. 1 item.
This is a photograph of a relief model.
82. MAPS OF PARTS OF THE OLYMPIC NATIONAL FOREST, WASH., SHOWING INFORMATION ABOUT ELKS. 1937-38. 3 items.
Published maps showing locations of elk kills, the winter range of Roosevelt elk, and migration routes and recorded locations of the belled cow elk.
83. COOPERATIVE FIRE-CONTROL MAPS. 1931-40. 4 items.
Maps of the United States consisting of a published map, dated 1937, prepared to illustrate the Clarke-McNary Act of 1936 showing forest areas under intensive protection, those areas with inadequate protection and areas with no protection, State forest-fire-control headquarters, and district boundaries and headquarters; an undated manuscript map showing national forests and purchase units and areas with adequate or inadequate fire protection, marked "Hastings Data"; and a published map, dated 1931, showing diagrammatically--by State--the area of State and private forest land under fire protection or in need of protection, the number of trees distributed to farmers for planting stock, and headquarters of administrative personnel. There is also a map of New Mexico, annotated in 1940 to illustrate the coverage of sections 1, 2, and 3 of the Clarke-McNary Act of 1936, showing forest lands in need of protection, park lands, lands protected by Federal agencies other than the Forest Service, lands protected by cooperative agreement, lands protected by the State, proposed permanent lookouts, firemen and rangers, and boundaries of Forest Service administrative control.
84. LETTER AND MAPS RELATING TO THE DEFENSE OF FOREST LANDS IN CALIFORNIA. 1940. 3 items.
A copy of a letter to the Chief of the Forest Service from the Regional Forester describing the project for defending forest lands in California, a map of the State annotated to show areas to be defended, and a map of the defended areas showing the proposed communication net and facilities of the cooperative aircraft warning service.
85. MAPS PERTAINING TO STUDIES OF FOREST FIRES IN MINNESOTA AND MICHIGAN. 1925-27. 16 items.
Manuscript maps showing forest-fire occurrences; railroad fires; fires occurring in the fall, spring, and summer; brush-burning fires; campers' and smokers' fires; fire-control districts; and forest cover. The maps of Minnesota show information for the period 1915-24; and those of Michigan, for the period 1920-27.
86. STATE MAPS SHOWING ROAD DEVELOPMENT IN NATIONAL FORESTS. 1917. 26 items.
Printed maps showing the status of road construction and types of existing roads, approved road projects, road projects proposed but not approved, and the relation of the existing and proposed roads to county and State highway systems. Arranged alphabetically by State.
87. MAPS OF NATIONAL FOREST REGIONS AND NATIONAL FORESTS SHOWING ENCLOSING AREAS WITHOUT ROADS. ca. 1926. 48 items.
Arranged numerically by region and thereunder alphabetically by name of forest.

RECORDS OF THE DIVISION OF TIMBER MANAGEMENT

This Division develops timber management plans and supervises timber sales, forest tree nursery work, forest planting, insect and disease control, and other phases of timber management. It was established in 1935 but had its origins in 1898, when a Section of Working Plans was established in the Forest Service to prepare plans that would assist farmers, lumbermen, and others in handling forest lands. The Section became, successively, the Office of Forest Management, the Branch of Forest Management, and in 1935 the Division of Timber Management.

88. TIMBER SURVEY MAPS. 1913-16. 800 items.
Printed maps of authorized timber sale areas in national forests, annotated to show tree types, age of trees, ground cover, and topography. Related textual descriptions accompany the maps. Arranged alphabetically by name of national forest.
89. TIMBER SURVEY AND SALE DIAGRAMS. 1915-27. 280 items.
Maps of national forests annotated to show

areas of intensive timber surveys and cutover areas. The cutover areas contain numbers referring to attached lists that give the dates of the sales contracts and the person or company contracting the sales to 1921. After 1921 the sales are not identified. Arranged by region and thereunder alphabetically by name of national forest.

90. MAP SHOWING LOCATIONS OF PROPOSED TIMBER SALES AREAS IN THE MALHEUR NATIONAL FOREST, OREG. n. d. 1 item.
A published map. Proposed areas and optional areas are distinguished.

91. TIMBER SETTLEMENT MAP OF PART OF MOUNT BAKER NATIONAL FOREST, WASH. 1937. 1 item.
A printed map annotated to show levels of 1,570 and 1,710 feet above sea level and cutting areas.

92. MAPS OF NATIONAL FORESTS IN REGION 1 SHOWING TIMBER ACCESS ROADS. n. d. 17 items.
Printed maps. Arranged alphabetically by name of forest.

93. OTHER MAPS OF TIMBER AREAS. ca. 1940. 2 items.
A map of the Bridger National Forest, Wyo., dated 1940, annotated to show timber areas served by roads and the condition of the roads; and an undated printed map of the Mississippi River Delta area annotated to show timber areas.

94. PROJECT FILES OF THE DRAFTING AND ATLAS SECTION.
Manuscript, photoprocessed, and published maps, graphs, charts, and related data. Most of these records were prepared for use in publications, as illustrations for exhibits or talks given by Forest Service personnel, or for the use of other Forest Service Divisions. Some of the records were never published. A detailed listing of the records is given on pages 27-34 in the order in which the records are arranged--a letter-number designation appearing on the folders.

RECORDS OF THE DIVISION OF RANGE MANAGEMENT

In 1907 a Branch of Grazing was established in the Forest Service to supervise all matters relating to the grazing of livestock on national

forest ranges and range reserves. The name was changed to Branch of Range Management in 1927, and in 1935 the Branch became the Division of Range Management.

95. MAP OF THE WESTERN UNITED STATES SHOWING ESTABLISHED AND PROPOSED GRAZING DISTRICTS. n. d. 1 item.
Annotated.

96. MAPS SHOWING PROPOSED TRANSFERS OF NATIONAL FOREST LANDS TO THE GRAZING SERVICE. 1945. 33 items.
Maps of California, Forest Service Region 4, and individual national forests annotated to show areas involved in an Executive order proposing the transfer of 26 million acres from the Forest Service to the Grazing Service of the Department of the Interior. Arranged by area.

97. MAPS RELATING TO THE ESTABLISHMENT OF GRAZING DISTRICTS IN NATIONAL FOREST AREAS. 1940. 9 items.
A published map of central and western Colorado annotated to show national forests and parks and Taylor Grazing Districts; published maps of part of Taylor Grazing Districts 3 and 4 in Colorado showing federally owned lands and adjacent national forests; and published maps of Forest Service Regions 3, 4, and 6 annotated to show lands that the Department of the Interior might request under section 13 of the Taylor Grazing Act.

98. MAPS OF THE SOUTHWESTERN SHEEP PROBLEM AREAS. n. d. 3 items.
A published map and an annotated map of Arizona showing proposed sheep experiment areas and stock driveways and a map of the Southwestern United States showing the approximate area to be served by the proposed Southwestern Sheep Experiment Station and range types, experimental areas, and irrigated land in the area covered by the station.

99. MAPS OF EXPERIMENTAL RANGES AND PASTURES. 1918-36. 15 items.
A published map of the Billy Meadows Experimental Pasture, Oreg., undated; a photoprocessed map of the South Fork Burnt River Cattle and Horse Range, Whitman National Forest, Oreg., showing the kind and value of forage, 1919; manuscript, annotated, and published maps of the Jornada Experimental Range, N. Mex., 1936, showing soil and grass types, a survey of the eastern boundary, the triangulation control of the eastern boundary, changes

and proposed changes of the eastern boundary, and facilities of the reserve, such as fences, telephone lines, buildings, and tanks once liquidated by grazing credit and either rebuilt or maintained by the Government or by a co-operator. There are also published and annotated maps of the Santa Rita Range Reserve, Ariz., one dated 1934, and two copies of a map of the Rak Allotment, 1920, one annotated to show utilized range, fences, salt grounds, and corrals, and the other annotated to show inaccessible areas, corrals, water, stock trails, and salt grounds.

100. MAPS OF GOAT RANGES. 1915-18.
7 items.

Published, annotated, and manuscript maps of the Gist and McCollaum Dark Canyon Goat Range, Lincoln National Forest, N. Mex., including plans of the range and maps showing grazing areas and kinds of grasses; a plan of the Gist and McCollaum Kidding Range in the Lincoln National Forest; a plan of the proposed Gist and McCollaum Goatproof Pasture in the Alamo National Forest, N. Mex.; a plan of the experimental goat range in the Gila National Forest, N. Mex.; and an incomplete map showing forage lands in goat ranges in the Gila National Forest. Some of these maps are noted as having been prepared for a Mr. Chapline.

101. REPORTS ON APPRAISAL OF RANGELANDS IN NATIONAL FOREST REGIONS AND NATIONAL FORESTS. 1922-27.
208 items.

Manuscript and annotated maps of parts of Regions 3, 4, and 5 and of national forests showing recreation areas and areas closed to stock, open and browse rangelands, range in conifer timber, wasteland, and patented lands; overgrazed lands are distinguished. Filed with the maps are general discussions of the rangelands in each region or forest and detailed discussions giving information on forage, water, topography, accessibility improvements, land values, Forest Service restrictions, losses from poisonous plants and predatory animals, and costs of handling stock. In general these descriptions distinguish between cattle and sheep ranges. Statistical summaries give information on acreages of rangelands, forage types, carrying capacities of rangelands, values, and the grazing improvement plan. Photographs accompany some of the reports. These reports were prepared in the Office of Grazing. Arranged alphabetically by name of forest.

102. MAPS PREPARED FOR A REPORT TO THE NATIONAL RESOURCES PLANNING BOARD. 1934. 17 items.

A map of Forest Service Region 2 annotated to show waste rangelands; manuscript and annotated maps of the Western States, Forest Service Regions 1 and 6, and the southern part of the intermountain area showing the seasonal use and carrying capacities of rangeland; and maps of the Forest Service regions annotated to show surveyed range areas and the agencies responsible for the surveys, surveys meeting Western Range Survey standards, and areas to be surveyed by the Western Range Survey.

103. MAPS SHOWING SEASONAL USE AND GRAZING CAPACITIES OF WESTERN RANGELANDS. 1936. 2 items.
Manuscript.

104. MAPS SHOWING THE EXTENT OF RANGE DEPLETION. n. d. 21 items.
Manuscript maps of the western range area, the shelterbelt area, and the individual Western States. Arranged by area or by State.

105. MAPS SHOWING LAND TYPES. 1935.
16 items.
Manuscript maps of individual Western States and a composite map of the Western United States showing land types--agricultural, grazing, forest, and barren lands and refinements of each. Arranged by State.

106. MAPS SHOWING TRUE LAND VALUES. 1940. 7 items.
Maps of several Western States and of Forest Service Regions 1 and 2, annotated to show lands valuable for grazing, watershed, or timber purposes. Boundaries of Taylor grazing districts and areas that might be subject to transfer from the Forest Service to the Grazing Service of the Department of the Interior, under section 13 of the Taylor Grazing Act, are also shown. These maps were prepared by the Forest Service with the cooperation of the Grazing Service.

107. LANDOWNERSHIP MAPS OF THE WESTERN STATES. n. d. 12 items.
Manuscript.

108. MAPS SHOWING THE EXTENT OF SOIL EROSION IN THE WESTERN UNITED STATES. 1934-35. 9 items.
Manuscript.

109. MAPS AND GRAPHS RELATING TO LIVESTOCK PRODUCTION IN THE WEST, 1915-35. 4 items.
A printed map of the Western United States, dated 1915, showing changes in livestock production from 1910 to 1914; and manuscript graphs, dated 1935, showing the number of animals supported and trends in animal production on the western rangelands.
110. GRAPHS SHOWING THE RELATIONSHIP OF FORAGE PRODUCTION TO RAINFALL, 1940. 6 items.
Separate graphs for each of several western locations covering the period from 1915 to 1940.
111. REPORTS AND MAPS ON THE EXTENT OF RODENT AND PREDATORY-ANIMAL CONTROL IN FOREST SERVICE REGIONS 1 AND 2, 1929. 44 items.
Maps of national forests in Regions 1 and 2, annotated to show the extent of area infested by range-destroying and predatory animals. Accompanying reports describe the species of each and the work done to control them. These reports were prepared in cooperation with the Biological Survey. Arranged by region and thereunder alphabetically by name of forest.
112. EXHIBITS ACCOMPANYING REPORT ON CONDITION OF GRAZING LANDS WITHIN THE LIMITS OF THE ATLANTIC AND PACIFIC RAILROAD, ARIZ. AND N. MEX. 1918-19. 5 items.
Five manuscript exhibits as follows: (1) a map of the area showing vegetation, forage types, average precipitation, and isohyetal lines; (2) a land tenure map showing patented railroad lands, railroad lands selected but not patented, State lands, national forest lands, Indian reservations and allotments outside reservations, private land grants, homestead lands, holdings of the American Lumber Co., and public lands; (3) a range control map showing leased and purchased lands, cattle and sheep allotments in national forests, number of users of grazing lands, and number of users interviewed; (4) a table giving precipitation data obtained from stations within each forage-type area; and (5) tabular data on the cattle and sheep industry within the grant including lists of the cattle and sheep ranchers, locations, number of acres leased by each and from whom the lands were leased, character and carrying capacities of the rangelands, losses or increases in number of animals, supplemental feedings of animals, and reactions of individual ranchers toward range control.
113. GRAZING RECONNAISSANCE MAP OF PART OF THE MADISON NATIONAL FOREST, MONT. n.d. 1 item.
Published.
114. MAPS ILLUSTRATING A POISON RECONNAISSANCE OF THE FISH LAKE NATIONAL FOREST, UTAH. 1916. 2 items.
Published maps of parts of the national forest showing larkspur areas and meadow, weed, conifer, grass, sedge, and browse types.
115. MAPS AND A REPORT RELATING TO THE RANGE MANAGEMENT PLAN FOR THE UINTA NATIONAL FOREST, UTAH. 1928. 7 items.
Maps of Districts 7 and 8 within the Uinta National Forest showing the sheep management plan, the distribution of cattle, and proposed and completed water developments; and a report on the range management plan. Included are summary sheets listing proposed uses of grazing areas.
116. MAPS RELATING TO USE OF LANDS IN ARIZONA BY THE CAMPBELL-FRANCIS SHEEP CO. 1938. 6 items.
Maps of the Coconino National Forest, the Black Canyon and New River areas, and part of the Prescott National Forest, Ariz., noted as "L - Purchase R-3, Campbell-Francis Sheep Co." and annotated to show leased and public lands, Taylor grazing lands, reservoir sites, sheep driveways, and pending applications for State leases; a blueprint copy of Unit 1 of the Campbell-Francis Sheep Co.; and a map of Region 3 annotated to show the sheep project areas and sheep driveways used in the 1937 fall budget.
117. MAPS RELATING TO RANGELANDS IN REGION 1, 1932-35. 4 items.
A map of Region 1 annotated to show the percent of range deterioration and areas of depletion, 1932; two manuscript maps of Montana, one showing vegetation and the other showing land use and irrigated areas, undated; and a photo-processed diagrammatic map of Madison County, Mont., showing numbers of livestock and bushels of wheat raised per acre, 1935.
118. MAPS RELATING TO RANGELANDS IN REGION 2, 1932-35. 55 items.
Two maps of Region 2, one annotated to show the percent of range depletion and the second annotated to show cattle and sheep ranges, rangelands closed to stock, and waste ranges;

manuscript, annotated, and photoprocessed maps of Colorado showing vegetation, land classification, landownership, land use, national forests, the number of cattle on farms (by county) for the years 1910, 1920, 1925, and 1930, the number of farms with mortgages, tax delinquencies, and tax sales (by State and by selected counties), average size of farms, value of farmlands, number of sheep on farms, sales and trades of livestock, and changes in numbers of farms and ranch and farm units in Moffat County; two graphs showing amount and valuation of rainfall also in Colorado; a manuscript map showing vegetation in South Dakota; and maps of Wyoming showing the seasonal use of grazing areas, types of farming areas and farms, number of general farms and livestock ranches, amount of cropland, irrigated areas, number of self-sufficient farms, percent of unclassified farms, erosion conditions, rainfall, vegetation, tax delinquency, and problem and resettlement areas.

119. MAPS RELATING TO RANGELANDS IN REGION 3. 1932. 2 items.

A map of Region 3 annotated to show natural forest areas of major watershed influence and serious erosion, together and singly, and additional natural forest areas; and a map of Crook National Forest annotated to show the extent of range depletion.

120. MAPS RELATING TO RANGELANDS IN REGION 4. 1934-35. 28 items.

Maps of Region 4 annotated to show most-critical erosion and submarginal areas and these areas in relation to natural forest areas; a map of the northern half of Region 4 annotated to show the seasonal use of grazing land and the number of acres needed per cow-month; maps of Nevada, Idaho, and Utah showing carrying capacity of rangelands, classes of stock using ranges, range depletion, seasonal use of range, erosion, forage types, and vegetation; maps of Idaho and Utah showing seasonal range of deer, the number of deer, and the estimated range carrying capacity for deer; and maps of western Wyoming showing the carrying capacity of rangelands, classes of stock using ranges, and range depletion.

121. MAPS AND TABLES RELATING TO RANGELANDS IN REGION 5. 1918-35. 11 items.

Maps of California, dated 1934-35, annotated to show areas of significant erosion, irrigated and nonirrigated agricultural lands,

Spanish grants and missions, carrying capacity of grazing lands, seasonal use of rangelands, landownership, erosion, range depletion, natural cover, land use, and river basins; a table summarizing the runoff and precipitation in each river basin; a table listing the number of stock permitted under paid permits in each national forest in California annually from 1909 through 1934; and a map of the Salmon National Forest annotated to show ground cover and the condition of grasslands, 1918.

122. MAPS RELATING TO RANGELANDS IN REGION 6. 1935. 8 items.

Maps of Oregon showing range types, range depletion, natural vegetation, and the Oregon and California Railroad lands within and outside national forests; a graphical tabulation of flood runoff on the east and west sides of the Cascade Mountains, Wash., with a map annotated to show sites tabulated; and maps of Washington showing range types and range depletion.

123. MAPS FROM STUDIES OF THE SHELTER-BELT AREA. 1935. 28 items.

Maps of the United States annotated to show the eastern boundary of rangelands, the boundary between grazing and grazing-farm lands, submarginal and farm-range counties, regional areas, the carrying capacity and seasonal use of rangelands, grazing lands, and the extent of range depletion within the shelterbelt; a manuscript map of the United States showing vegetation types in the shelterbelt; and maps of the shelterbelt project area showing the boundary of the project, extent of mixed prairie, annual rainfall and the 22-inch rainfall boundary, regionalized farming types, soils and natural vegetation, the area and extent of living shelterbelts in the fall of 1934, the acreage of cropland, natural land-use areas, winter, summer, and year-long wind movements, wind directions and velocities at selected areas, and climatic areas; and graphs showing crop yields in relation to tree groves and fields of influence of 50-percent density barriers.

124. OTHER MAPS. n.d. 3 items.

A photoprocessed plan with editorial annotations of the "Range and Farm Relationships in the Intermountain Region"; an unfinished manuscript grazing-utilization map of an unidentified area; and a manuscript map of Tps. 10-12 S., Rs. 4-6 E., no principal meridian or State given, showing either soil or vegetation types.

RECORDS OF THE
DIVISION OF RECREATION AND LANDS

This Division was established in 1935. It inherited those supervisory responsibilities of the former Branch of Lands (established in 1908) that concerned the use of forest lands for purposes other than timber and grazing. The responsibility for land acquisition, also a function of the Branch of Lands, was assigned in 1935 to the newly established Division of Land Acquisition.

125. LAND CLASSIFICATION FOLIOS OF NATIONAL FORESTS. 1908-42.
131 items.

Reports, with maps and photographs on land classification and boundaries of national forests and intensive surveys of special areas and project areas within several of the forests. The reports usually contain information about the history, topography, climate, soils, agricultural values, land classification, land titles, land values, waterpower, recreation facilities, and grazing within the forests or parts of the forests, with related maps showing--by township--tree types, other vegetation, barren and burned lands, possible agricultural lands, listed and patented lands, withdrawals, entries by type, allotments, and selected lands. The boundary data, which are not included in all the

reports, contain textual descriptions on the boundaries, with remarks on additions, deletions, and recommendations for changes and maps showing past, present, and proposed boundaries. Some of the reports include additional reports and maps from detailed surveys of special or project areas--mainly surveys of soil types within these areas. Arranged alphabetically by name of national forest.

126. MAPS OF NATIONAL FORESTS ANNOTATED TO SHOW LANDS WITHDRAWN FOR RANGER STATIONS. 1906-18.
150 items.

Extensive marginal annotations give dates of withdrawals; exact location of each withdrawal in terms of public land descriptions; and revocations, if any, of the withdrawals. Arranged alphabetically by name of national forest.

127. MAPS AND REPORTS PERTAINING TO RECREATION PLANS IN NATIONAL FORESTS. 1917-30. 40 items.

Separate maps and reports. The maps show recreational sites and facilities within national forests, such as camp sites, summer home sites, scenic areas, primitive areas, game refuges, and commercial areas. Arranged alphabetically by name of national forest or other recreation area.

RECORDS OF THE NATIONAL FOREST PLANNING AND ESTABLISHMENT DIVISION

A Division of Land Use Planning, later known as the National Forest Planning and Establishment Division, was organized in the Forest Service in 1935 as one of two divisions concerned with acquiring land for national forest purposes; the other was known as the Division of Land Acquisition.

Land planning in the Forest Service had three main purposes: (1) to foster and promote the permanent sustained-yield management of forest lands by private agencies; (2) to cooperate with the States, under the provisions of the Fulmer Act of August 29, 1935, in the development of State-owned and State-managed forests; and (3) to eventually establish a national forest status for the forest lands of such character or service as to require Federal rather than private or State ownership and management.

128. STATE MAPS SHOWING ACTIVITIES OF THE PUBLIC LAND-MANAGEMENT AGENCIES. ca. 1934. 48 items.

Annotated base maps. Delaware is combined with Maryland and Vermont with New

Hampshire. Included are maps of Hawaii and Alaska. Arranged alphabetically by State.

129. MAPS AND RELATED RECORDS PERTAINING TO STUDIES OF AREAS SUITABLE FOR NATIONAL FORESTS. 1923.
23 items.

Maps of States and parts of States annotated to show areas suitable for national forests, with accompanying lists giving acreages of Indian reservations, State lands, private lands, and timbered, watershed, and grazing areas in unreserved public lands. Arranged alphabetically by State.

130. MAPS OF THE UNITED STATES SHOWING FOREST FACTORS. ca. 1935-41.
31 items.

Annotated and published maps showing the distribution of forest and wild lands and factors relating to forest regions, such as the population distribution, number of farms, intensity of economic relief, plane of living and standard of living, migration of farm population, rate of

population increase, percent of part-time farming, increase or decrease in farms, submarginal farms, income from farms, the most critical economic areas, the relative influence of forests on watersheds in 1936 and 1941, distribution of areas not restocking forest lands, tax delinquency, and distribution of commercial forest land, mature timberland and second-growth forest.

131. MAPS OF THE UNITED STATES RELATING TO POPULATION. 1930 and 1936. 4 items.

An annotated map and a published map showing population density, by county, based on the census of 1930; and an annotated map and a published map showing the theoretical population pressure on county resources based on distance factors, 1936.

132. MAPS AND GRAPHS PERTAINING TO THE ACQUISITION OF LAND FOR NATIONAL FORESTS. 1937-41. 165 items.

Charts showing the progress of acquisition of national forest lands from 1890 to 1938 and from 1890 to 1941, with inset graphs showing total acres acquired from sources other than transfers from the public domain; maps of the United States showing the plan for acquisition of national forest lands as viewed in 1934, 1937, and 1939; manuscript maps and reports submitted in 1937 by the Regional Foresters of Regions 1-6 for presentation to the National Forest Reservation Committee in accordance with section 8 of the Clarke-McNary Act relating to proposed acquisitions of forest lands; maps of Arizona, New Mexico, and of the Forest Service regions annotated to show present and proposed forest areas, and recommendations for the use of public lands; maps of national forests and a few national parks annotated to show changes resulting from the legislative programs of 1937-38 and 1938-39; maps of Idaho, Nevada, Utah, and Wyoming, dated 1935, annotated to show areas recommended as additions to national forests by the Public Domain Commission and still in effect, those no longer recommended, and additional recommendations; reports and maps dated 1934 showing public domain additions to the Carson, Cibola, Gila, Pike, and Santa Fe national forests; and an undated map of the Western States showing areas proposed to be added to existing national forests or for establishment of new forests. Arranged in units by map coverage.

133. REFERENCE DATA FOR FOREST LAND-USE PLAN. ca. 1930. 25 items.

Tables listing, by State, statistical data about forests and their use. Included are the number of acres in forest lands and in commercial forests, the volume of sawtimber produced, the annual consumption of lumber, the amount of lumber imported, the volume of lumber and pulp manufactured, the total number of workers employed in the lumber industry, ownership of forest lands, total acres in farmlands, total croplands harvested, total croplands idle or fallen, total acres of major watershed influence by State and by national forest, total acres of serious erosion, total acres of submarginal farming, total acres irrigated, and number of acres of forest lands that should be transferred to either Federal or State ownership.

134. MAP SHOWING STATUS OF FOREST LANDS EAST OF THE GREAT PLAINS. 1930. 1 item.

A manuscript map showing by pie graphs the lands in national forests, lands approved for national forests, lands in State forests, lands programed by each State for the next 10 years, the ultimate State programs and lands remaining for private initiative.

135. MAP OF THE WESTERN UNITED STATES ACCOMPANYING THE 1930 PUBLIC DOMAIN REPORT. 1930. 1 item.

A printed map showing national forests and parks and Indian reservations, with unexplained annotations.

136. REPORTS, WITH MAPS, ON PROPOSED ACQUISITIONS OF THE PUBLIC DOMAIN. 1930. 11 items.

Reports describing proposed acquisitions of public domain by individual national forests in each of the 11 Western States. Included in each report are a general review of the public domain in each State and detailed descriptions of lands that might be added to individual forests. Also included are photographs of the areas and maps of national forests annotated to show proposed forest boundary changes, soil and forest types and timber, watershed, and grazing values in lands adjacent to the forests. Arranged alphabetically by State.

137. STATE MAPS SHOWING LAND VALUES AND PROPOSED USES. 1930. 15 items. These maps were prepared for the public

domain report. Annotations show national forests and proposed additions thereto differentiated according to value for timber, watershed, or grazing purposes; watershed, timber, and grazing land proposed for public control; timber, watershed, and grazing lands to be considered with other areas for public control; and acreages of open public land.

138. MAP OF OREGON SHOWING THE EXTENT OF PUBLIC LANDS. 1930. 1 item.

A base map annotated to show national forests, other areas under permanent Federal control, and the number of acres of public lands and of revested Oregon and California Railroad lands in each township.

139. MAPS OF THE UNITED STATES SHOWING FORESTRY RECOMMENDATIONS PREPARED FOR THE LANDS COMMITTEE REPORT OF THE NATIONAL RESOURCES BOARD. 1934. 1 in. 97 items.

Published maps showing the extent and distribution of lands in the United States from which the highest social and economic service would be derived from some kind of forestry. Included are maps showing present and recommended ownership, management, use of forest lands, the extent and condition of forest lands, forest-land improvement measures, critical areas, agricultural areas and their use in relation to forest lands, population dependent upon forestry, and tax delinquency in forest areas. In addition to the 86 published maps there are 11 annotated base maps showing present and recommended ownership, use, and management of forest lands and the protection of commercial forest species.

140. STATE MAPS SHOWING PRESENT AND RECOMMENDED FOREST LANDOWNERSHIP AND MANAGEMENT. 1934. 118 items.

Base maps, two or more for each State, with annotations showing present and recommended forest landownership and management. They were prepared in the Forest Service regional offices for use in the report to the Land Use Section of the National Resources Board. Arranged alphabetically by State.

141. MAPS OF NATIONAL FORESTS SHOWING VACANT PUBLIC LANDS. 1934. 25 items.

Annotated. Arranged alphabetically by name of national forest.

142. MAPS SHOWING FOREST LAND DEPENDENCY. 1934. 30 items.

A map of the United States and maps of several States annotated to show the number of families obtaining support from a national forest. State maps are arranged alphabetically.

143. MAP STUDIES OF THE COLUMBIA RIVER BASIN. 1934. 5 items.

A map of the basin annotated to show national forests, areas chiefly valuable for timber, grazing or watershed protection purposes, and areas proposed for national forests, with a separate table listing by State the acreages of the public domain recommended for national forests or for other public ownership; State maps of Washington and Oregon annotated to show national forests and project areas in the basin, open lands, timbered areas outside national forests, State forests, and exchange authority lands; a map of Idaho annotated to show the lower edge of watershed lands; and a map of the basin annotated to show probable forest extensions.

144. MAP OF THE TENNESSEE VALLEY. n. d. 1 item.

A large-scale base map annotated to show national and State forests; the Qualla Indian Reservation; the Great Smoky Mountain National Park; agricultural, forest, marginal, and recreational lands; and uses of waterpower.

145. MAPS ILLUSTRATING STUDIES OF THE LAKE STATES AREA. 1934 and 1940. 16 items.

Base maps of the area annotated in 1934 to show factors illustrating a study of forest acquisition plans to sustain local communities as recommended by the Lake States Experiment Station; these maps show density of population, public forests, centers of pulpwood and log consumption, accessibility of forests to wood-using centers, protection of forest areas, areas of low forest productivity, principal merchantable timber areas, forest areas of high value from the standpoint of public acquisition, and a proper adjustment plan for the Jackson Valley area. There are also base maps annotated in 1940 to show economic and physical conditions of the area; these maps show public lands, Indian lands, CCC campsites (by sponsor), present land use, types of farming areas, forest subregions, rural cultural subregions, and areas suited to farming.

146. MAPS OF GRAZING DISTRICTS.
ca. 1936. 84 items.

A map of Arizona annotated to show grazing districts and published maps of individual grazing districts annotated to show changes, additions, eliminations, and withdrawals. Arranged alphabetically by State and thereunder by grazing district number.

147. MAPS PERTAINING TO STUDIES OF FOREST LANDS IN THE OREGON AND CALIFORNIA RAILROAD REVESTED LANDS, OREG. AND WASH. 1935-52.
7 items.

Photoprocessed maps of the area included in the Oregon and California Railroad revested lands, annotated to show lands administered by the Forest Service, the Department of the Interior, and the States; proposed changes in administration of the lands; Forest Service facilities; timberlands; and acreages of private lands. One map is apparently annotated with information to accompany a report on sustained yield; there is, however, no key to the annotations. There is also a printed map of Oregon showing Oregon and California Railroad controverted lands administered by the Forest Service in 1952 and other lands that the Forest Service proposed to administer.

148. REPORTS AND MAPS OF PROPOSED NATIONAL PARKS. 1936. 34 items.

Reports recommending the establishment of national parks in national forest areas and maps of the State of Washington and of individual national forests annotated to show boundaries of proposed parks. Arranged by area.

149. MAPS OF THE UNITED STATES SHOWING RURAL ECONOMIC FACTORS.
1937. 5 items.

Base maps annotated to show by geographic region the number of farms and percent of tenancy, value of farm lands and buildings, use of land in farms, percent of farms operated by tenants, and percent of wild land in farms. The 1930 census statistics were used in compiling these maps.

150. MAPS OF THE UNITED STATES SHOWING STUDIES OF WILD LANDS. 1937.
6 items.

Base maps annotated to show percent of wild land by county, percent of wild lands to total area and number of acres of wild lands in farms, number of acres of wild and forest lands

not in farms, and the extent of domesticated, urban, industrial, and rights-of-way lands.

151. MAP SHOWING THE TRANSPORTATION AND PROTECTION PLAN FOR THE SOUTHERN REDWOOD PURCHASE UNIT, CALIF. 1938. 1 item.

A published map showing roads, recreation areas, proposed fire-protection facilities, protection and administrative headquarters, and guard and lookout stations.

152. MAP STUDIES OF THE NORTHERN NEW MEXICO PLANNING UNIT. n. d.
3 items.

Maps of the planning unit annotated to show ownership and administration of lands, land use, and population dependency in relation to resources.

153. MAP STUDIES OF THE SNAKE RIVER, GREAT BASIN, AND COLORADO RIVER BASINS. 1934-36. 9 items.

Maps of the area comprising the three basins, dated 1936, annotated to show the extent of erosion and erosion-control projects, survey courses, developed waterpower projects, undeveloped waterpower, primitive areas and improved campgrounds, vegetation, and the extent of range depletion; and a map of the Snake River basin, dated 1934, showing the use of water resources and annotated to show the lower edge of watershed lands, national forests, other forest lands, watershed lands outside the national forests, and the extent of public lands.

154. MAPS OF NATIONAL FORESTS IN WASHINGTON SHOWING INFORMATION ABOUT VACANT PUBLIC LANDS. n. d.
5 items.

Base maps annotated to show vacant public lands outside land districts affected by the classification act of February 26, 1895; those within land districts affected by this act; and those classified as nonmineral.

155. MAPS OF NATIONAL FORESTS IN WASHINGTON AND OREGON SHOWING LANDOWNERS. ca. 1919. 20 items.

Base maps annotated to show large holdings of landowners, usually lumber companies, with attached lists giving the holdings of small amounts of land by name of owner, and a description of the land. Arranged alphabetically by name of national forest.

156. RECORDS PERTAINING TO CHANGES IN NATIONAL FORESTS AND PURCHASE UNITS. 1925-47. 41 items.

A map of the Washakie National Forest, Wyo., annotated to show sites of additions under the Clarke-McNary Act of 1925 and maps of the 16 individual sites annotated to show commercial and noncommercial timberlands, burned and barren areas, sagebrush and grasslands, cultivated lands, State selections, school sections, patented homestead lands and homestead entries, and survey corners; a report, with maps and photographs dated 1932, illustrating the proposed Boise basin addition to the Boise National Forest, Idaho; a series of map studies of the proposed extension to the Chequamegon National Forest, Wis., showing soil types by townships, land cover, and landownership; a manuscript map of the Uwharrie Purchase Unit, N. C., showing the purchase unit boundary and "zone A as per N. F. R. C. 12/12/39"; and a photoprocessed copy of a map of the Cumberland National Forest, Ky., the original of which showed lands being acquired or to be acquired, and families living on national forest lands and lands to be acquired for the forest. The photostat does not differentiate all the information. Arranged alphabetically by name of forest or purchase unit.

157. MAPS PERTAINING TO THE ADMINISTRATION OF THE WENATCHEE NATIONAL FOREST, WASH. ca. 1947. 2 items.

A published map of the forest annotated in 1947 to show lands relinquished under the transportation act of 1940 and those acquired under exchange since 1939; and a base map annotated to show landownership within the forest and entitled "With Such a Heavy Proportion of Non-Federal Lands, Effective National Forest Administration is Terribly Hampered."

158. MAPS AND LISTS RELATING TO NATIONAL FOREST EXCHANGE LANDS IN NEW MEXICO. 1932. 41 items.

Maps of national forests and plats of some townships within national forests annotated to show lands within the forests exchanged for State-supported institutions; and lists giving, by institution and by township, the acreages of merchantable and unmerchantable timber within each exchange area.

159. MAPS PERTAINING TO BOUNDARY STUDIES OF THE COCHETOPA NATIONAL FOREST, COLO. 1910 and 1921. 8 items.

Maps of the Cochetopa National Forest, dated 1910, annotated to show boundary changes, proposed changes, and tree types; and maps, dated 1921, annotated to show recommended additions to the forest, areas involved in Ute Indian claims, and Forest Service facilities.

160. REPORT OF AN ECONOMIC SURVEY AND DEVELOPMENT PLAN FOR THE JACKSON HOLE REGION, WYO. 1933. 1 item.

A report by S. C. McCain, supervisor of the Teton National Forest, describing the agricultural, mineral, timber, water, and recreational resources of the Jackson Hole Region. Included are a plan for developing the area and information on landownership, taxable land values and valuation rates, merchantable timber, number and distribution of elks and the elk kill, and present and proposed use of rangelands and hay lands, big-game range, elk range and elk kill, timber, minerals, water, summer home sites, closed areas, and park extension plans.

161. MAP OF THE GOVERNMENT PURCHASE AREA, POLK COUNTY, TEX. n.d. 1 item.

A manuscript map showing the purchase area in relation to the State reserve of the Alabama Indians.

162. PLATS OF TOWNSHIPS IN THE GRAND RIVER PURCHASE UNIT, IOWA. 1938. 53 items.

Manuscript, annotated, and photoprocessed plats. Included are names of landowners. Arranged by range number and thereunder by township.

163. MAPS SHOWING NATIONAL FOREST LANDS LYING EAST OF THE CONTINENTAL DIVIDE. ca. 1934. 26 items.

Maps of individual national forests annotated to show the Continental Divide; lands in each forest lying east of the Divide are further emphasized by green coloring. Included is a map of the United States showing national forests, annotated to show the line of the Continental Divide. Arranged alphabetically by name of forest.

164. DATA ON OWNERSHIP OF NATURAL FOREST AREAS. 1934. 1 item.
Tabular data prepared by the Forest Land Planning Division of the Forest Service listing by State the essential ownership of natural forest areas of major watershed influence and areas over 50 percent submarginal for farm crop use.

165. GRAPHIC MAPS OF THE UNITED STATES SHOWING INFORMATION ABOUT FOREST LAND RESOURCES AND USES. 1942. 6 items.
Printed maps showing, by region, population distribution, growth and drain of sawtimber, forest employment, forest growth and drain, and the distribution and consumption of lumber.

RECORDS RELATING TO FOREST RESEARCH

A Section of Silvics (later Office of Silvics), charged with the collecting and compiling of silvicultural data, was the first research unit of the Forest Service. An investigation unit dealing with forest products was organized in 1905, and its work led to the establishment in 1910 of the Forest Products Laboratory at Madison, Wis. In 1913 the Office of Silvics was superseded by the Office of Forest Investigations. In 1915 the various phases of research in the Forest Service were brought together in a Branch of Research. In 1935 this Branch was replaced by five research divisions that were authorized to initiate or continue investigations relating to timber management, protection, economics, products, watersheds, recreation, and ranges.

RECORDS OF THE DIVISION OF FOREST PRODUCTS

In 1905 an investigation unit dealing with forest products was organized in the Forest Service. This unit, known later as the Branch of Products, was merged with other research units to form the Branch of Research established in 1915. In 1935, when the Branch of Research was abolished, a Division of Forest Products was created. This Division, now known as the Forest Products and Engineering Research Division, was responsible for (1) reducing wastes and lowering costs of harvesting, converting, and using the timber crop; (2) ensuring the consumer better service from wood in its natural and converted forms; and (3) developing new uses for wood.

166. MAPS OF THE UNITED STATES SHOWING THE PRODUCTION AND CONSUMPTION OF LUMBER AND LUMBER PRODUCTS. 1909-11. 3 items.
Printed maps compiled by the Office of Geography for the Branch of Products. Two maps dated 1909 and 1910, respectively, show the production of lumber by kind and by State; the third item, dated 1911, consists of a panel

of 14 maps showing States producing lumber and lumber products.

167. MAP OF CANADA SHOWING THE PRODUCTION OF LUMBER BY KIND AND BY PROVINCE. 1912. 1 item.
A map published by the Office of Geography for the Branch of Products.

168. MAP OF THE WORLD SHOWING MAJOR FOREST AREAS BY KIND AND BY VOLUME OF PAPER AND LUMBER PRODUCTION. 1935. 1 item.
A manuscript map compiled by W. D. Brush.

RECORDS OF THE DIVISION OF RANGE RESEARCH

The Division of Range Research was responsible for the protection and management of rangelands and for promoting approved grazing practices. As a part of its activities it supervised the Western Range Survey, a project undertaken to survey and appraise the value of western rangelands. The Division is now known as the Watershed, Recreation, and Range Research Division.

169. MAP OF THE UNITED STATES SHOWING THE STATUS OF RANGE RESEARCH. n. d. 1 item.
Annotated.

170. GENERAL MAP RECORDS. 1936. 35 items.
Maps of the Western United States showing the field organization of the Range Research Division; national forests and other public lands; established and proposed grazing districts; grazing capacities of rangelands; seasonal use of rangelands; principal forest, shrub, and grass types; and the distribution of range plants and grasses.

171. MAPS FROM A SPECIAL GRAZING SURVEY OF ROOSEVELT NATIONAL FOREST, COLO. 1950. 33 items.

Manuscript, printed, and annotated maps including a base topographic map and maps showing seasonal range use, slope, drainage, soil types, forage types, rocks, southern exposures, erosion and potential erosion hazards, allotment boundaries, and grazing types.

172. MAP AND RELATED RECORDS OF THE WESTERN RANGE SURVEY. 1935-38. 52 items.

A list of counties in which range surveys were conducted, status maps showing counties selected for the survey and regional boundaries of the survey, lists of expenditures for the survey, sample maps, planning maps, a graphic tabulation of the acreages involved in the survey, maps of the United States showing grazing capacities by county, and maps of the counties selected for the survey showing range types, range practices and recommended practices, and area responsibilities of the Federal Government and State governments in conducting the survey.

RECORDS OF THE DIVISION OF SILVICS

The Office of Silvics was renamed the Office of Forest Investigations in 1913 and in 1915 it was merged, with other research units of the Forest Service, into the newly established Branch of Research. In 1935, when the Branch of Research was abolished, a Division of Silvics was established. It has since developed into the present-day Timber Management Research Division.

173. MAPS OF LATIN AMERICA SHOWING FOREST RESOURCES. 1897-1923. 7 items.

Maps of South America showing forest regions by kind, two of which were prepared in cooperation with Dr. H. N. Whitford of the Yale Forest School, 1919; a map of southern Brazil, 1923, showing the distribution of parana pine; a hypsometric map of Mexico, 1897, and a map of Mexico, 1908, showing William L. Wallace's suggestions for the conservation of water and forest resources.

174. MAPS ILLUSTRATING DENDROLOGIC INVESTIGATIONS. 1907-13. 12 items.

Printed maps with texts pertaining to the distribution of turpentine resources and the basket willow in North and South America, 1907-11; and the Forest Atlas, Part 1, containing

36 maps of North America showing the distribution of pines.

175. GRAPHS RELATING TO A STUDY OF THE "DIAMETER DISTRIBUTION OF OLD FIELD LOBLOLLY, ETC." 1932. 7 items. Manuscript.

176. MAPS FROM INSECT-CONTROL SURVEYS IN NATIONAL FORESTS. 1917-18. 7 items.

Photoprocessed maps of parts of national forests showing boundaries of insect-control areas, treated trees, and abandoned trees.

RECORDS OF FOREST AND RANGE EXPERIMENT STATIONS

There are ten Forest and Range Experiment Stations in the continental United States, which are responsible for research work within the geographic boundaries of each station's territory. Research in wood utilization is done at the Forest Products Laboratory, Madison, Wis. The experiment stations are organized according to technical subject-matter divisions.

177. MAP OF THE UNITED STATES SHOWING REGIONS OF OPERATIONS OF FOREST EXPERIMENT STATIONS. 1930. 1 item.

A published map. The map also shows major commercial forest regions by kind of tree.

178. MAP RECORDS OF THE ALLEGHENY FOREST EXPERIMENT STATION. 1937. 8 items.

Published maps of the Research Center Experimental Forest at Beltsville, Md.; the Lebanon Experimental Forest and Lebanon Branch Station, N. J.; the Standing Stone Experimental Forest, Pa.; the Headquarters Tract of the YMCA Camp, Ockanickon, N. J.; the Eastern Shore Experimental Forest, Md.; and a plan of the Kane Experimental Forest, Pa., showing tree types.

179. MAP RECORDS OF THE APPALACHIAN FOREST EXPERIMENT STATION. 1932-41. 9 items.

Published maps of Virginia, North Carolina, and South Carolina showing forest regions by kind, 1941; a photoprocessed plan of the Fernow Experimental Forest, W. Va.; a plan of the Elk Lick Run, Monongahela National Forest, W. Va., showing tree types; a map of the Copper Basin Experiment Area, N. C., showing forest influence

installations; and maps of the Lee Experimental Forest, Va., showing boundaries upon its transfer from the Soil Conservation Service to the Forest Service in 1939, property owners, Government properties, and the approximate location of a powerline.

180. MAP RECORDS OF THE CALIFORNIA RANGE AND FOREST EXPERIMENT STATION. 1933-37. 42 items.

A map of Los Angeles County showing locations of fires from 1878 to 1933; published quadrangles of parts of California overprinted to show vegetation types; maps of national forests in California annotated to show locations of experimental forests and ranges; published topographic maps of the Black Mountain Experimental Forest, the Feather River Experimental Forest, and the San Dimas Experimental Forest; a map of the Burgess Spring Experimental Range showing improvements, experimental installations, and sample units; a published plan of the Devil Canyon Branch; a published topographic map of water sheds 1-7 in the Big Creek unit of the Kings River Branch; a photoprocessed plan of the Institute of Forest Genetics, Placerville; and a plan of the improvements at the San Joaquin Experimental Range.

181. MAP RECORDS OF THE CENTRAL STATES FOREST EXPERIMENT STATION. 1934-36. 5 items.

Published and photoprocessed maps of the Hacker Creek Experimental Forest, Ind.; the Richland Experimental Forest, Ohio; the Southern Illinois branch of the Central States Station; and the Sylamore Experimental Forest, Ark.

182. MAP RECORDS OF THE INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION. 1934-36. 12 items.

Photoprocessed maps and plans, including a topographic map, an improvement plan, and a landscape planting plan for the Boise Basin Experiment Station, Idaho. Also included are topographic maps and plans showing building sites at the Desert Experimental Range Reserve, Utah; the Desert Range Branch, Utah; the Great Basin Experiment Station, Utah; the U.S. Sheep Experiment Station at Dubois, Idaho; the Wasatch Branch Station and Davis addition to the Wasatch National Forest, Utah; and a topographic map of part of Davis County, Utah.

183. MAP RECORDS OF THE LAKE STATES FOREST EXPERIMENT STATION. 1937-40. 10 items.

Published maps, including maps of the

Lake States region and parts of Michigan and Minnesota showing forests by kind; maps of the Cut Foot Sioux, the Kawishiwi, the Pike Bay, and the Upper Peninsula Experimental Forests, showing tree types; and a boundary map of the Upper Peninsula Experimental Forest.

184. MAP RECORDS OF THE NORTHEASTERN FOREST EXPERIMENT STATION. 1934-40. 23 items.

A printed map of the Cooperstown Forest Unit, N.Y., annotated to show cooperating lands, State reforestation areas, Otsego reforestation areas, and the Otsego plant site; photoprocessed and published maps, including maps of the Bartlett Experimental Forest, N.H., showing cover types and the proposed design for the administrative site; maps of the Chenango Experimental Forest, N.Y., showing its location, a plan for Reforestation Area No. 2, and a plan of a proposed weir site; maps of the Finch Pruyn Experimental Forest, N.Y., showing its location and a planting plan; maps of the Gale River Experimental Forest, N.H., showing roads and soil types, and plans of the Aspen Release Area, the administrative site, and swamp drainage; maps of the Lawrence Hopkins Memorial Experimental Forest, Mass., showing topography, the landscape plan, and the original lot subdivision for Williamstown, Mass.; maps of the Massabesec Experimental Forest, Maine, showing the purchase unit and landowners; and a map, dated 1940, of the Fox Research Forest, Hillsboro, N.H., showing soil types, prepared by the Forestry and Recreation Department of New Hampshire and retraced by the U.S. Forest Service.

185. MAP RECORDS OF THE PACIFIC NORTHWEST FOREST EXPERIMENT STATION. 1934-36. 55 items.

Published maps of the States of Oregon and Washington, of counties in Oregon and Washington, and of Unit 6 of the Inland Empire Region, Idaho, showing tree types; topographic maps of the Cascade Head, Oreg., and Wind River, Wash., experimental forests; maps of the Blue Mountain, Oreg., and Port Orford, Oreg., experimental forests showing timber specification; and maps of the Pringle Falls Experimental Forest, Oreg., showing ground cover, tree types, timbered areas, and intensity of mapping.

186. MAP RECORDS OF THE ROCKY MOUNTAIN FOREST EXPERIMENT STATION. 1934. 30 items.

Maps of the Rocky Mountain region annotated to show established and proposed natural

areas and established and proposed experimental forests and ranges; maps annotated to show the location of the Central Plains Experimental Range, Colo., in relation to the short-grass type of range vegetation and in relation to the Federal Security Administration Project LA-CO-3; maps annotated to show the location of the Fraser Experimental Forest, Colo.; in relation to the approximate boundary of lodgepole pine types in Colorado and Wyoming, the location of the Fremont and Manitou Experimental Forests, Colo., and the location of the Fraser Experimental Forest in relation to proposed water diversions; maps of the Central Plains Experimental Range showing land use and landownership; maps of the Fremont, Fraser, and Manitou Experimental Forests showing tree types; and a map of the Manitou Experimental Forest showing landownership.

187. MAP RECORDS OF THE NORTHERN ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. 1924-37. 12 items.

Maps of the Custer Flat Experiment Station, the Hogback Summer Range Pastures, the Lone Pine Winter Range Pastures, and the Vigilante Experimental Range, Mont., annotated to show land cover; a published topographic map of the Deception Creek Experimental Forest, Idaho, and maps of the forest annotated to show timber types and age class, a summary of

silvicultural work to 1937, and an improvement plan for the forest; topographic maps of the Priest River Experimental Forest, Idaho, and branch station and a map of the forest showing timber types and age classification; and a grazing reconnaissance map of the Range Livestock Experimental Station, Miles City, Mont.

188. MAP RECORDS OF THE SOUTHEASTERN FOREST EXPERIMENT STATION. 1950. 1 item.

A published map of Florida showing major forest types.

189. MAP RECORDS OF THE SOUTHERN FOREST EXPERIMENT STATION. 1934-36. 7 items.

Published maps of the Southern States area and of individual States or parts of States in the area (Alabama, Florida, Georgia, Louisiana, Mississippi, and southwestern Arkansas) showing forest types.

190. MAP RECORDS OF THE SOUTHWESTERN FOREST EXPERIMENT STATION. 1935-36. 2 items.

A photoprocessed map of the Fort Vauley Experimental Forest Unit 1, Ariz., showing 1-acre line plot locations; and a photoprocessed plan of the headquarters of the Jornada Experimental Range, N. Mex.

RECORDS OF STATE AND PRIVATE FORESTRY DIVISIONS

The Forest Service cooperates with State agencies and private forest owners to protect forest lands against fire, insects, and diseases; to encourage better forest practices for conservation and profit; to aid in the distribution of planting stock for forests and shelterbelts; and to stimulate the development and management of State, county, and community forests. Although there are several State and Private Forestry Divisions, the only map records are not attributed to a single division but are noted "State and Private Forestry."

191. MAPS RELATING TO SPECIAL STUDIES OF FORESTS IN OREGON AND WASHINGTON. 1934. 5 items.

A manuscript map, designated as showing

the timber problem in Oregon and Washington, giving timber types, timberland ownership, and forest depletion to date and including graphic insets showing amount and percent of sawtimber, distribution of timber, amount of virgin timber in the United States and in Oregon and Washington, amount of sawtimber in private hands and in national forests, amount of cutover and burned lands, and forest-production capacities. Other maps include a manuscript diagrammatic map showing major sustained-yield units and published maps showing timber holdings in western Oregon, tree types in Oregon and Washington, and timber resources in Washington.

RECORDS RELATING TO CIVILIAN CONSERVATION CORPS WORK

During the depression years and until July 1943, when Congress disbanded the Civilian Conservation Corps, the Forest Service supervised a large percentage of Civilian Conservation Corps activities and camps that were located in national and State forests. While several divisions were established in the Service to administer these activities, the map records below are not identified as to origin.

192. MAP OF THE UNITED STATES SHOWING SITES OF EMERGENCY CONSTRUCTION WORK IN NATIONAL FORESTS. 1933.
1 item.
Photoprocessed.

193. MAP OF THE UNITED STATES SHOWING OCCUPIED AND VACANT CCC CAMPS. 1938. 1 item.

An annotated map on which colored symbols locate the camps by Federal agency in control of each.

APPENDIX

Description of Records in the Project Files of the Drafting and Atlas Section Division of Engineering (Entry 94)

- File A-1 (4 items). A map of the United States showing total commercial forest lands and farm woodlands by State in 1951; an undated map of the Western United States showing the distribution of ponderosa pine; a map of Florida dated 1942 showing the site quality and heights of trees; and an undated map showing the sphere of influence of the Ephraim Range Research Center, Utah-Nevada.
- File A-2 (3 items). Maps of the United States showing the status of forest surveys in 1940 and 1941; and an undated map of south-eastern Texas showing forest resources.
- File A-3 (6 items). Maps of the United States showing pulp mills by State and type of product in 1951, applications for tax amortizations in the field of forest products in 1951, population, forest areas, sawtimber, and the annual drain and growth of sawtimber; a graph showing land areas of the United States classified by economic use; and a map of the Pacific Coast showing softwood plywood production in 1951.
- File A-4 (7 items). Maps of the United States showing the extent of virgin timber in 1620, 1850, and 1926, lumber shortages and surpluses by State in 1920, and distances between lumber-producing regions and consuming centers in 1925; a map of the Western United States showing the relationship between national forests and irrigated lands in 1930; and a map showing the public shooting area in the Pisgah National Game Preserve in 1932.
- File A-5 (18 items). Undated maps of parts of the United States showing the botanical range of aspen; black and honey locust; black willow; black, red, and white spruce; dogwood and Pacific dogwood; cucumber magnolia; noble fir; osage orange; red oak; southern white cedar; and yellow buckeye.
- A map of the United States, dated 1930, comparing lumber production in the South with that of other forest-producing regions; and a map of the Southern States showing wood pulp mills in 1952.
- File A-7 (3 items). Maps of the United States showing lumber shortages and surpluses in 1930 and the distribution and consumption of lumber in 1941; and a map of the Eastern United States dated 1953 showing forest regions.
- File A-8 (3 items). A map dated 1951 showing the proposed Jimenez Valley truck trail in the Caribbean National Forest, P. R.; and charts showing the relation of lumber charges to the distances carried in 1924 and the amount of Pacific Coast lumber carried overwater to the Atlantic Coast from 1918 to 1930.
- File A-9 (16 items). Standard drawings for labor camps, dated 1933; and graphs showing CCC accomplishments in national forests prepared in 1935 for a report to a congressional committee.
- File A-10 (2 items). A map of the United States showing the area included in the forest survey of 1956; and a map of Florida showing the Sand Hills area.
- File A-11 (5 items). Undated maps of the Colorado, Columbia, Missouri, Upper Rio Grande, and Sacramento-San Joaquin River watersheds showing annual water yields.
- File A-12 (1 item). A map of the Central United States showing the boundary of the Great Plains.
- File A-14 (18 items). Graphs relating to moisture and evaporation prepared in 1932 by the Harvard Forest, Mass.

- File A-15 (3 items). Undated maps of the United States showing the distribution of major forest diseases and insects adversely affecting forests; and a map dated 1950 of the Quetico-Superior region, Superior National Forest, Minn., showing a special land acquisition by the Federal Government.
- File A-19 (13 items). Maps dated 1938 of the Appalachian, California, Central States, Intermountain, Lake States, Northeastern, Northern Rocky Mountain, Pacific Northwest, Rocky Mountain, Southern, Southwestern, and Allegheny Forest Experiment Stations; and a map dated 1939 of the Appalachian region showing principal forest types.
- File A-20 (1 item). A diagrammatic sketch showing areas covered in an unidentified sample range-management plan, n. d.
- File A-21 (1 item). A translation of instructions for the measurement of sample plats compiled by the Prussian Forest Experiment Station in 1926.
- File A-22 (13 items). Maps, graphs, and posters relating to forest fires, including a map dated 1935 of the United States comparing the total annual loss from forest fires with the total amount of forest lands, a poster dated 1938 showing causes of forest fires, charts showing the number and distribution of acres of forest land burned in the United States and in national forest lands in Mississippi during the years 1910-37, charts and graphs relating forest fires to total precipitation and to numbers of visitors to national forest areas, and charts relating to methods and expenditures for fire protection.
- File A-24 (4 items). A map of the United States showing the botanical range and amount of lumber cut of black walnut and a diagram showing approved spacings of black walnut trees; a chart showing total number of stock grazed yearly under paid permit from 1908 to 1937; and a diagram showing native shrubs and herbaceous plants as indicators of potential natural timber belts in Ephraim Canyon, Manti National Forest.
- File A-25 (20 items). Maps of parts of the United States showing the botanical range of jack, pitch, pond, sand, and western yellow pines; western black willow; western red cedar; sitka and white spruce; and tamarack. Maps of the Southeastern United States showing virgin areas of slash and longleaf pine and their distribution in 1925 and 1932; a map of the United States with the Republic of Chile superimposed; and charts showing consumption of jack and southern pine for pulpwood yearly from 1916 to 1940 and firewood consumption by decades, region, and kind of tree from 1630 to 1930.
- File A-35 (5 items). A map of the United States showing farm woodlots by county in 1910; a map of the Eastern United States showing the status and values of farm woodlots in 1917; a chart showing the size of the average farm in each woodlot region in 1880 and in 1910; and charts dated 1928 showing temperature, precipitation, and plant zones in relation to altitudes in Arizona in 1928.
- File A-36 (18 items). Maps dated 1934 of the Eastern United States and the Gulf States showing influences of forests on watersheds, and a map of the Eastern United States showing critical watersheds in 1938; a diagram compiled by Raphael Zon in 1912 of a river in flood; graphs dated 1937 showing the relationship of precipitation to discharge in forested, pastured, and abandoned farmlands, and 12 charts showing infiltration rates in the Washita River watershed compiled for use in a report on the infiltrameter.
- File A-38 (39 items). A map dated 1927 showing the location of the French Maritime Pine District and its size in relation to the Southeastern United States; 24 charts dated 1926 showing height and growth curves of various pine trees; and 14 charts and graphs dated 1914 showing the relationship of stumpage to lumber prices.
- File A-41 (25 items). Maps, charts, and graphs illustrating the Cooper Report, S. Res. 311, June 1, 1920, on the estimated uses of wood in the United States. Included are maps showing forest regions, original forested lands, and prime sawtimber sections.
- File A-43 (8 items). Maps of California showing national forests, roads, and fire zones for all causes and for incendiary, camper, and lightning fires; and maps of the Shasta National Forest showing zones of fire occurrences, lookout visibility, and hourly zones of fire control. 1920-21.

- File A-44 (16 items). Maps of the Shasta National Forest showing flammability risks, fire-control facilities and organization districts, visibility, accumulated fire statistics, and lightning zones.
- File A-45 (6 items). Maps of the United States showing forest regions and areas covered by the Forest Experiment Stations, 1934 and 1937; a map of Canada showing coniferous forests; a plan of the Brisbane Tract, N. J.; and a chart showing the uses of forest products.
- File A-46 (10 items). Maps of the national forest regions showing highways, 1936; and a map of the Northeastern United States showing the amount of basswood manufactured by county in 1918.
- File A-47 (1 item). A map of Finland showing Forestry Board Districts in 1953.
- File A-48 (1 item). A map of the United States showing areas jointly recommended by State foresters and the Forest Service for acquisition under the Fulmer Act.
- File A-49 (106 items). Alinement charts for various species of trees and illustrations on the use of alinement charts in constructing forest-stand tables, 1925-28.
- File A-50 (38 items). A map of the Jornada Experimental Range, N. Mex., dated 1943, charts and graphs dated 1922 comparing soils with vegetation, and a listing of key plants at the station; charts on the practicability of relating grazing fees on national forest lands with the market value of livestock, including charts comparing the prices of cattle and sheep at seven different areas for the period 1920-32 and charts showing livestock prices, wool prices, land rental costs, grazing fees on Indian Reservations, and costs of forage on private lands; two charts relating to the loss of salt in soils by weathering; a chart dated 1929 showing the number of workdays necessary to handle grazing work in rangelands during a peak season; maps of the Rocky Mountain Forest Experiment Station dated 1936 showing vegetation and forest type and range depletion; maps of the Southwestern Forest Experiment Station showing forest, grass and shrub types, erosion and land depletion, and principal water-yielding and silt-producing areas; and maps of southeastern Arizona showing principal grass, forest, and shrub types and the degree and extent of forage depletion within rangelands.
- File A-54 (9 items). Maps dated 1925 and 1942 of the Western Hemisphere showing forest regions; a map of South America dated 1911 showing natural forest regions; a map of Costa Rica dated 1943 showing forest types, an undated map showing the areas of commercial importance of Brazilian araucaria (parana pine); a printed map showing intermingled landownership in a typical eastern forest in the United States and an incomplete negative photograph of a map showing intermingled landownership in a typical western forest area; an undated map of central Utah showing landownership in western range country; and an undated map of central Colorado showing landownership.
- File A-55 (8 items). Maps of the United States showing areas in which 15 percent or more of the population was on relief in 1935, in which 45 percent or more of the farm operators also worked away from their farms in 1934, in which 40 percent or more of the farms yielded less than \$600 gross annual income in 1929, in which a substantial part of the cultivated lands should be withdrawn and adapted to other uses, and predominate forest lands; a map of the Brimfield State Forest, Mass., dated 1936; a map of a corrected road in the Stanislaus National Forest, dated 1950; and a 1942 base map of eastern Siberia.
- File A-60 (2 items). Maps from a special survey of western and central Ecuador showing routes travelled, areas studied, and forest types.
- File A-62 (4 items). Charts relating to the saw-timber stand in the United States from 1630 to 1930 including a chart showing its drain, the contrast between its drain and growth, and the regional balance of its growth and destruction.
- File A-64 (20 items). A chart comparing national forest activities and appropriations in 1932 and 1942; a chart showing the national forest area covered with maps meeting standard specifications and the amount of area still to be covered for the fiscal years 1938 to 1942; a chart showing the effect of the CCC on national forest activities; charts relating to the amount, uses, and sales of timber cut

- in national forests for the years 1933-43 and estimated for 1944; charts relating to fires in national forests, 1925-45, including information on the number of fires, the number of acres burned, the number of fires caused by man, the number of acres protected, and the effects of the CCC fire-protection activities; charts relating to the status of blister-rust control, especially in the western white pine region; and a map of T. 2 N., R. 15 W., Allegan County, Mich., showing status of lands in LU-MI-3 on which it was proposed to issue oil leases.
- File A-65 (3 items). A map of the United States showing the spread of blister-rust disease from 1923 to 1952 and the natural extent of white pine; a map showing the extent of shelterbelt planting to 1941; and a base map of Mitchellville and vicinity, S. Dak., prepared in 1941 in connection with the shelterbelt program.
- File A-66 (9 items). A map of Alaska dated 1949 showing forest regions; a map of the Tongass National Forest, Alaska, showing recreation areas; maps of the Admiralty Island, Glacier Highway, Ketchikan, and Ward Lake Recreation areas, Alaska; a map of the Western United States showing coordinate revegetation and reforestation research centers, 1942; a chart dated 1947 showing the sunspot cycle for the period 1934 to 1960 and its relation to sunshine, temperatures, precipitation and average evapotranspiration; and a 1947 map of the Enoree Division, Sumter National Forest, S. C., showing acquired land.
- File A-67 (4 items). A map of the United States showing maximum observed snow depths in national forests, 1933 to 1937; a map of Colorado showing annual precipitation in the Rockies, 1942; a map of the Wenatchee National Forest showing multiple uses on a typical national forest, 1936; and a location map of the Priest River Experimental Forest, 1938.
- File A-69 (2 items). Maps of the Red Dirt National Wildlife Preserve and the Catahoula National Wildlife Preserve, Kisatchie National Forest, La.
- File A-70 (1 item). A map of the Western United States showing forested areas. Originally this map was to show approximate degree of inflammability of forested areas but this information was omitted. A legend giving normal fire seasons is included.
- File A-71 (1 item). A base map of the Charleston Mountain Division, Nevada National Forest.
- File A-74 (1 item). A map of the Southwestern United States showing stations used in guayule experiments.
- File A-75 (40 items). A map of the United States dated 1941 showing forest wastelands; and maps of the Cleveland National Forest showing water use and management, vegetation, burned areas, and geology.
- File A-77 (10 items). A map of Chile showing principal forest areas by kind; a map of Alaska showing the range and sanctuaries of the Alaskan brown bear, 1932; a map of the Malheur National Forest dated 1942 showing deer ranges and immigration routes and the proposed hunting area; and charts showing the number of game animals in national forests, 1921-40, the number of deer and elk in national forests at the beginning and end of the hunting seasons, 1927-42, examples of big-game problem areas in Colorado, 1941, deer management in the Utah National Forest, livestock and wildlife use, 1941, and a comparison of hunter and predator drain on deer and elk with their probable production.
- File A-79 (10 items). Maps and charts relating to timber resources in Wisconsin, 1922, showing the consumption of timber, timber requirements, and timber sources within and outside the State; and charts from studies of temperatures, wind velocities, and effects of windbreaks on velocities at St. Paul, Minn., and Raleigh, N. C.
- File A-80 (7 items). A map of the United States showing the regional organization of the cooperative western range survey, 1937; a map showing the location of the Richton, Miss., Subsistence Homestead Project in relation to the DeSoto National Forest, 1935; a chart dated 1940 showing the total annual fee received per head of livestock grazed; a chart showing acreages of national forest rangelands covered by the range survey of 1939; and charts showing the uses of wood.
- File A-82 (20 items). A map of the United States showing paper and pulpwood establishments in 1928 and graphs showing present and future pulpwood requirements; charts dated

- 1932 showing paper consumption in the United States by kind and in contrast with that in the world; and charts dated 1937 showing paper consumption by kind in the United States.
- File A-83 (6 items). Maps of the United States showing the botanical range of various kinds of willow, laurel, chestnut, and oak trees.
- File A-100 (69 items). A map of the United States dated 1955 showing the interstate highway system in relation to lands administered by the Forest Service; boundary and topographic maps of the Appalachian Forest Experiment Station dated 1926; a map of the boundary of the Lee Experimental Forest, Va., as transferred to the Forest Service, 1939; a map of parts of Dutchess and Ulster Counties, N. Y., noted as taken to the White House in 1942 for use in discussions relating to the management of President Roosevelt's forest at Hyde Park; a plan dated 1906 of the Crumwold Farms at Hyde Park, N. Y.; detailed maps of parts of Jefferson National Forest showing properties, 1954; a map of the Ducktown area, Tenn., showing area affected by smelter fumes, n. d.; maps and plans of the Bent Creek Experimental Forest including topographic maps, maps showing tree types, plans of compartments 1 through 3 and sample plots 3 and 4, plans of proposed building, nursery, and laboratory sites, and a map of the controlled burning plots; maps of sample plots at Liberty Furnace and Hawse Hollow, Va., at the Pisgah National Forest, and on lands of the Carolina Fiber Co., S. C.; plans of sample plots and of the cooperative experimental tract at Clemson Coast Experiment Station, S. C.; a plan of the Elk Lick Run, Monongahela National Forest, showing plots tallied in 1932; maps of the forest lands near Berea College, Ky., showing topography and sample plots; maps showing land acquisition in the Bosques Carite, Guaiataca, Guilarte, Guanica, Maricao Rio Abajo, and Susua, P. R., 1947-49; and a chart showing the diameter growth in 1929 of trees in the Appalachian Forest Experiment Station.
- File A-101 (46 items). Maps of Alabama, Arizona, California, and Montana showing national forests in 1958; maps of the Arkansas-White River, the Delaware, Columbia, Connecticut, Ohio, Potomac, and the Tennessee River drainage basins showing forested areas in 1950, often by kind of tree; maps of the Columbia, Potomac, and Rio Grande drainage basins showing average annual precipitation and runoff, 1950; a map of the Potomac River drainage basin showing physiographic divisions; a map of the Alabama-Coosa-Tombigbee drainage basin showing the known range of little-leaf disease of pine, 1950; a map of the Central Valley, Calif., showing national forests; base maps of the Arkansas-White and Colorado River drainage basins; a map of Knott County, Ky., showing magisterial districts, n. d.; a map of Ararat Place, S. C., showing sample plots, 1913; and maps of the Baltimore Plantations, N. C., including base maps and maps showing planting sites, 1906-24.
- File A-102 (60 items). Maps and plans of sample plots in the Shenandoah and Natural Bridge National Forests, Va., and the Pisgah National Forest, N. C., 1927-30.
- File A-103 (2 items). A world map showing important timber trees, 1940, and a map of the Appalachian region showing general soil types, n. d.
- File A-104 (1 item). A base map of the land-utilization project area (LU-IN-21) located in Greene and Martin Counties, Ind., transferred from the Soil Conservation Service to the Forest Service.
- File A-107 (8 items). Maps of the shelterbelt area showing average evaporation, April to September, and plans for planting gulch areas.
- File A-109 (82 items). Maps of the State of California, dated 1936-38, showing range use, forest-land uses, deer kill, cover types and agricultural lands, relative possibilities for sustained-yield management under present economic methods, recreation areas, cutover timber areas, percent of population on relief, the concentration of relief, correlation between existing and proposed land use, and watersheds of existing and proposed reservoirs.
- Maps and graphs prepared for the Joint Congressional Committee on Forestry, 1939, including information on unemployment, relief, income, natural resources, possibilities of multiple use of forest lands in relieving the economy, conservation, and fire-protection measures.

Other records include a map of the United States showing protected and unprotected State and private forestry lands under the Clarke-McNary Act of 1936; a map of the San Bernardino County Flood Control District showing the fire-control water system, 1945; a map showing locations of fires occurring between 1936 and 1945 within the areas proposed for the Crestline-Lake Arrowhead fire pipeline system; a map of the Caribbean National Forest, P.R., showing land acquisitions in 1953; a base map of Anthony Peak in the Mendocino National Forest, n. d.; a map dated 1939 showing wilderness and wild areas in the Deschutes and Willamette National Forests, Oreg.; a landownership map of the Shasta National Forest, 1938; a 1936 graph showing existing and potential employment in forest activities; and a chart showing stumpage prices from 1946 to 1950 of live ponderosa pine in Regions 5 and 6.

- File A-111 (1 item). A plan of the La Mena Recreation Area, Caribbean National Forest, P.R., dated 1947.
- File A-112 (2 items). Maps of the United States showing the extent of commercial forest lands, 1959.
- File A-113 (5 items). Maps of the United States dated 1934-37 showing erosion, principal waterways, natural vegetation, forest lands, submarginal lands in relation to watersheds, areas with submarginal farms recommended for retirement, and the relative influence of timber and shrub forests on the principal drainage basins.
- File C-1 (7 items). A map of Oregon showing economic centers in 1942 and related tabular data on timber resources in the State; maps prepared in connection with a study of the economic management of white pine forests consisting of a map of the Coeur d'Alene River basin showing ownership of cutover forest lands and lands not cut over, a map of the Lone Cabin-Burnt Cabin-Bottom Creek area, Idaho, showing logged areas given cultural treatment, areas not treated, immature and inaccessible stands, and a chart comparing costs and prices of white pine logging; and an aerial photograph of the Coquille River road in the vicinity of the Big Bend Ranch annotated to show the road, ranch, and the Rogue River trail, noted as prepared in 1942 in connection with a claim

of Bradley Page, owner of the Big Bend Ranch.

- File C-2 (17 items). Maps of watersheds including a map of the Los Angeles River watershed dated 1941 showing subdrainage areas; maps from a flood-control survey of the Potomac River watershed showing soils, topography, gaging stations, areas needing the most attention, an estimate of personnel needed, the extent of aerial surveys, and a hydrograph of the 1936 flood; maps of the Mohawk River watershed showing mileages between dams; a base map of the Walkkill watershed, N. Y. -N. J.; and a map showing subwatersheds of the Yazoo River basin, Miss.
- File C-6 (15 items). Maps and charts prepared in 1936 at the request of Senator Byrd, including a map of the United States showing forest, range, and wild lands, maps showing multiple use on typical eastern (White Mountain) and western (Wenatchee) national forests, and charts showing the organization of the Forest Service in comparison with that of other related Government agencies.
- Other records include charts prepared for the 1935 report to the National Resources Board showing winter ranges, game refuges, and the numbers of big game in the Western United States; a map of the United States dated 1936 showing forest lands on or for which the Forest Service conducted research; a map of the United States showing National Resources Committee planning districts for drainage basin studies; and a map of southern Georgia showing turpentine stills and wood-using plants.
- File C-8 (84 items). Illustrations for the 1936 Range Report including maps of the Western United States showing erosion, the seasonal use of rangelands, water-yielding and silt-producing areas, boundary of rangelands, classes and extent of range depletion, range-land capacities, landownership, principal shrub and forest types, annual precipitation, trends in rangeland use, and numerous charts and graphs with related information.
- File C-10 (1 item). A map of the United States showing the field organization of the Forest Service Range Research Division.
- File C-12 (8 items). Maps of North America showing papermills and pulpmills, 1934

- and 1937; maps of the United States showing by State either a deficiency or surplus of softwood in 1934, amount of lumber imported in 1926, and the relative size of the lumber cut in 1927 in comparison with other peak years from 1819 to 1927; and a chart showing lumber consumption trends from 1920 to 1949.
- File C-13 (11 items). Records from the Ohio Farm Woodlot Study of 1938 consisting of graphs showing diameter classes and species groups of wooded areas in Washington township, Auglaize County, Ohio.
- File C-14 (10 items). Maps of the United States, dated 1936, showing the distribution of productive and unproductive forest lands and maps and charts relating to a study of Lincoln County, Wis., showing amount of cropland, distribution of forest areas by size, and tax-delinquent lands.
- File C-15 (18 items). Maps and charts relating to the 1934 lumber distribution and consumption, including maps showing the exchange of lumber between the United States and Canada, the per-capita production of lumber in the United States; and maps and charts relating to the 1936 consumption and production of lumber in the United States and Canada, including maps showing the amount produced, the amount imported, sources of imported lumber, consumption per State in relation to the amount produced, and the relative consumption of Northern Pacific softwoods and southern pine.
- File C-16 (1 item). A chart showing a comparative summary of fires during 1937.
- File C-20 (60 items). A map of Iowa showing purchase units in 1938 and maps of national forests showing wilderness areas, 1938.
- File C-22 (17 items). Maps of foreign areas dated 1931-44 showing the distribution of different tree species including maps of parts of Africa showing the distribution of iroko, khaya, and okoume; maps of Caribbean areas showing the distribution of balsa, mahogany, and lignumvitae; a map of part of northern South America showing the distribution of greenheart; an unfinished map of Italy showing the distribution of olive trees; a map of Southeast Asia showing the distribution of teak, a map of the Southwest Pacific showing countries exporting lauan and similar lumber; and a map of Madagascar showing forest types.
- File C-23 (4 items). Maps of the Northeastern and Eastern United States showing the distribution of various species of maple, birch, and beech trees; and charts comparing the stand, annual cut, and properties of these trees with the white oak, 1928-39.
- File C-24 (19 items). Maps of the United States showing natural vegetation and the percent of forest cover by county; maps of southern Georgia dated 1939 showing major forest types, turpentine stills, and wood-using plants and sawmills; maps of the Lake States area showing the area in 1940 as defined by the U. S. Department of Agriculture and by the Northern Lake States Regional Committee; a map of the Mississippi River Delta area showing the natural land-use areas as defined by the Forest Service in 1940; a map of Oregon and Washington showing national forests and the eastern limit of the Douglas fir region; a map of Cook County, Ga., showing forest landowners in 1938; and maps of national forests in Arizona and New Mexico with annotations possibly showing elevations with the notation "Flora of Ariz. & N. M."
- File C-25 (16 items). Maps of the United States showing population density and distribution, 1930, the distribution and amount of wild lands, and the distribution of urban, industrial, and rights-of-way lands; maps showing information about farm woodlands including their use and changes in numbers; and an undated map showing flood areas.
- File C-27 (6 items). Maps and charts relating to the Appalachian region showing topography, physiographic regions, tree types, sawtimber resources, and Forest Service activities.
- File C-28 (20 items). Maps of the United States showing areas mapped by the Forest Service to 1940 with an estimate of the areas to be mapped by 1941; and graphs relating to the number of visitors to national forests, fires in relation to the number of visitors, wilderness areas, camp sites, and changes in numbers of big game.
- File C-33 (2 items). Maps of the United States showing sites of famous trees (not named, however) and locations of national forest and purchase units.

- File C-34 (9 items). Maps of the Great Plains area showing vegetation; and maps pertaining to the Allegheny National Forest including a general location map, a map of the Allegheny plateau showing forest types, physiography, political subdivisions and sample plots, maps of the forest showing the location of the Tionesta Natural and Scenic Area and maps of the scenic area, a map of the Allegheny Forest Experiment Station showing forest types, and charts relating to the establishments of hemlock and white pine on the East Tionesta sample plots.
- File C-35 (2 items). A panel of maps of the United States showing virgin forest lands in 1620, 1850, and 1926; and a panel of maps showing virgin forest in 1942 and the remaining stands of original sawtimber in 1850 and 1930.
- File C-37 (11 items). An updated map of the United States showing national forests; maps of the United States dated 1916 showing original and reserved public lands, national forests and principal timber belts; a map of the Western United States showing timber and woodlands in relation to national forests; and maps of parts of the Western United States showing commercial timberlands, woodland, agricultural lands, and grazing lands.
- File C-40 (3 items). A topographic map and a base map of Greenwood, Miss., and vicinity; and a panel of topographic quadrangles of the Mississippi backwater area.
- File C-41 (8 items). Two differing waterfowl fly maps of North America dated 1939; and maps of the United States showing ECW and CCC camps in 1933, 1936, and 1941, and CCC central repair shops in 1939.
- File C-45 (30 items). Maps and graphs from studies of world forest resources, including maps of individual areas or countries showing forest resources by kind and graphs showing information about importation and exportation, consumption, and availability of timber.
- File C-48 (3 items). A recommended form for traffic maps, a traffic map of a part of the Tahoe National Forest, and a transportation plan to meet hour-control requirements.
- File C-50 (20 items). Charts giving the 10-year plans for access roads to national forests in Oregon and Washington, 1951.
- File C-58 (7 items). Key maps 1-4 for controlling quadrangles in the World War II defense mapping project; and maps and graphs relating to restocking old or growing new forests in the United States with information comparing the extent of farm woodlands with cultivated farmlands and the distribution of commercial farmlands.
- File C-59 (6 items). Maps and charts relating to the Emergency Rubber Project during World War II, including a map of the Western United States showing the distribution of rubber rabbit brush; a contour map of California and a map of the State showing guayule planting districts and labor camps; a map of Arizona-New Mexico-Texas showing guayule nursery units, planting districts, and labor camps; a map of Mexico showing guayule areas; and a chart showing the yield of guayule.
- File C-106 (3 items). Maps of Idaho, 1939, and Puerto Rico, 1957, showing forest types and a map of the Lewis and Clark National Forest highway dated 1957.
- File D-1 (2 items). A map of northwestern California showing forest highways and forest roads suitable for hauling timber, 1955, and a forest road maintenance map for the Snoqualmie National Forest, 1947.
- File D-2 (7 items). Maps of national forests in Washington, Oregon, Minnesota, and Idaho showing wild or wilderness areas.
- File D-3 (1 item). A topographic map of Lake Dorothy and vicinity, Alaska.
- File E-1 (6 items). Maps of the United States showing forest types, areas reported by State land-planning consultants, commercial and protection forest areas, areas covered by the Forest Service in its 1934 report to the National Resources Planning Board, and the population dependent on second-growth forests; and a map of the United States showing the 12 major river basins covered in the report to the President's Water Resources Policy Commission, 1950.

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