

PARK SERVICE BULLETIN



VOL. IX NO 9

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THE COVER

Winter Scene, Yosemite National Park
(Photo by Ralph Anderson)

UNITED STATES DEPARTMENT OF THE INTERIOR
National Park Service - Washington

Arno B. Cammerer
Director

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Editor-In-Chief

Mary C. Ryan, Bulletin Editor



Warm holiday greetings to all in the National Park Service -- and the wish that the New Year may bring to each of you a full measure of happiness and success.

At this season dedicated to good will, I wish to thank the entire personnel of the National Park Service for the splendid spirit of cooperation shown during the past year -- cooperation within the Service as well as with the increasing millions who visit the national park areas under our care.

May our opportunities for extending good will among our own people increase during the coming year no matter how much the longed-for "Peace On Earth" is shattered elsewhere.

Geno Blammere

Director



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NOT FOR PUBLICATION

CHIEF EXECUTIVE PARTICIPATES IN JEFFERSON MEMORIAL CEREMONIES

President Franklin Delano Roosevelt officiated at the ceremonies attending the laying of the cornerstone for the Thomas Jefferson Memorial on the banks of the Tidal Basin in West Potomac Park, Washington, D. C., on November 15. In an address which was broadcast to the Nation preceding the laying of the cornerstone, President Roosevelt lauded the "many-sided" Jefferson. He spoke not only of his patriotism and his championship of the cause of democracy which has endeared his memory to his fellow countrymen and the liberty loving peoples of the entire world, but also of his contributions to our national welfare through his accomplishments as an educator, architect, writer, and humanitarian.

Stuart G. Gibboney of New York City, Chairman of the Thomas Jefferson Memorial Commission, introduced the President and presided at the ceremonies. The marble walls of the memorial, for which ground was broken only 11 months preceding the cornerstone laying, are now well above the ground and are rising at a surprisingly rapid rate of progress. The President expressed the hope that the \$3,000,000

edifice would be ready for dedication by January 1941.

The memorial, which is a modification of the original design by John Russell Pope, will be a temple of classical composition containing a bronze statue of Jefferson. F. F. Gillen of the Branch of Engineering is representing the Service in supervising its construction.

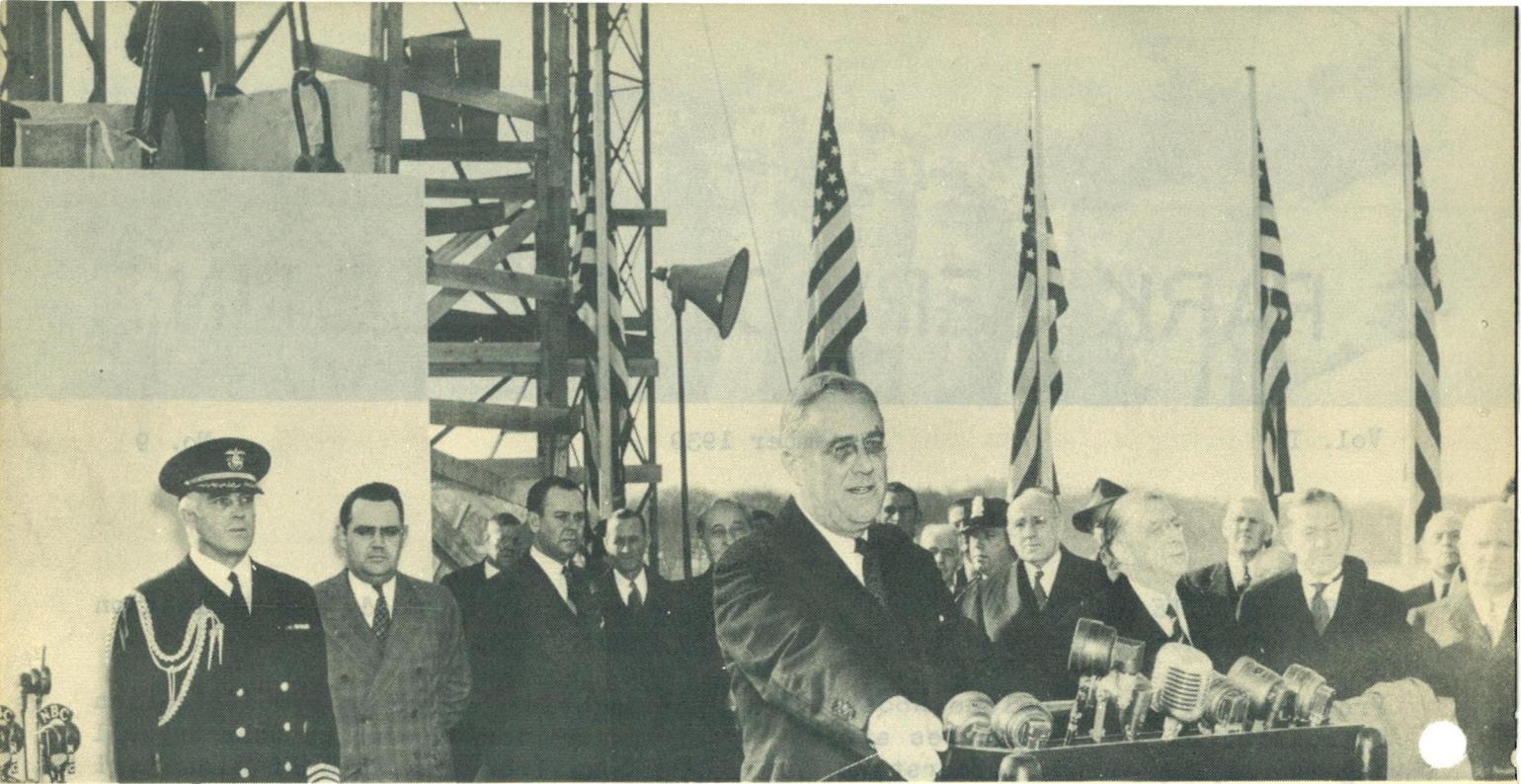
Important documents with which Jefferson was intimately associated are deposited in the cornerstone, a marble piece 6 feet high and 5 feet wide. Included in the document collection is the third President's private Bible.

BLACK CANYON OF THE GUNNISON MONUMENT ENLARGED

By Presidential Proclamation dated October 31, 1939, 2,760 acres were added to the Black Canyon of the Gunnison National Monument, Colorado, bringing the total acreage of the monument to 13,985 acres.

In his proclamation President Roosevelt declared the additional lands were required for the proper care, protection, and management of objects of scientific interest.

NOTE: By direction of the Secretary of the Interior the matter contained herein is published as administrative information and is required for the proper transaction of public business.



President Roosevelt Paying Tribute to Jefferson at Memorial Cornerstone Laying Ceremonies held November 15

PARK OPERATORS CONFER IN WASHINGTON

A two-day conference between national park operators and Service officials was held in the Washington Office November 28-29, during which definite progress was made toward the Service's objective of more reasonable rates for housing and meal facilities to accommodate persons of the low-income groups who are visiting the national parks in increasing numbers each year. The operators reported on plans for the installation of additional facilities and improvement of existing ones to care for increased national park travel expected during the 1940 season due to a reduction in European travel because of war conditions.

Following the 2-day conference the operators remained in Washington for

about a week to discuss their individual problems with Service officials.

The following operators attended the Conference: W. M. Nichols, President, Yellowstone Park Company and Chairman, National Park Operator's Conference; Vernon Goodwin, Vice-President, Yellowstone Park Company; H. B. Brown, General Manager, Yellowstone Park Company; A. A. Aszmann, General Manager, Glacier Park Hotel Company; W. A. Hatfield, General Manager, Fred Harvey Company, (Grand Canyon); Howard H. Hayes, President, Glacier Park Transport Company and Sequoia & General Grant National Parks Company; Jack Haynes, President, Haynes, Inc., (Yellowstone); Don H. Tressider, President, Yosemite Park & Curry Company; Herman Hoss, Secretary, Yosemite Park

& Curry Company; George L. Mauger, General Manager, Sequoia and General Grant National Parks Company; W. H. Conner, Manager, Colonial Park Company (Yorktown); Paul H. Sceva, General Manager, Rainier National Park Company; Dallas Dort, President, Lassen National Park Company; H. B. Blanchard, Washington Representative, Utah Parks Company (Zion and Bryce); and W. W. Thompson, General Manager, Mammoth Cave Operating Committee.

THE WEAKER SEX?

According to an item appearing in *Topics*, a mimeographed newsheet issued by Local No. 2 of the National Federation of Federal Employees, the first one hundred Federal Employees retired in August 1920, when the Retirement Law became effective, were from the Pension Office, now a part of the Veterans Administration. Of the 100, two members of the so-called weaker sex are still living -- Henrietta Osborn and Helen Danforth.

SERVICE WIVES INAUGURATE BRIDGE-LUNCHEON SERIES -- ALL INVITED

On Wednesday, November 29, a series of No-Host Bridge-Luncheons was inaugurated by the Park Service wives. Mrs. Charles L. Gable, Mrs. Arthur W. Burney, and Mrs. William G. Carnes launched the project, acting as hostesses and bearing the brunt of making all arrangements, including reservations.

At this very successful party it was decided to hold the next luncheon on

January 17, at the Silver Bowl Tea Room, Connecticut Avenue and "R" Streets. The hostesses will be Mrs. Earl H. Brown and Mrs. Ward P. Webber. All interested in attending should make reservations through Mrs. Brown (phone Randolph 6513) or Mrs. Webber, (Wisconsin 6473) by January 15. The cost per person of the last luncheon was eighty-five cents, including tips and prizes.

SPECIAL CHRISTMAS CELEBRATION SCHEDULED AT HOT SPRINGS

For the ninth consecutive year Hot Springs National Park, Arkansas, will observe Christmas Eve with a Christmas Carol Pageant. One of the most spectacular community ceremonies held in the United States, the pageant attracts a throng of visitors. White robed singers carrying candles march from a bluff overlooking the city down a winding path to a green carpeted park below where a 45-minute program of carols is given. During the singing, inspiring tableaux in keeping with the sacred occasion flash on and off. The Spa's "Bath House Row" and all the principal streets are decorated with Christmas greens and colored lights.

YOSEMITE GLACIERS ARE SMALLER

Yosemite glaciers showed a great decrease in size this year over former years according to reports covering the annual glacier measuring trip conducted in late September. The decrease is attributed to light snowfall last winter.

DEPARTMENTAL UNIT
GIVEN NEW DESIGNATION

By an order of Secretary of the Interior Ickes the name of the division of the Department of Interior charged with the administration and control of the grazing districts set up under authority of the Taylor Grazing Act has been changed from "Division of Grazing" to "Grazing Service."

OFFICIAL COMMENTS ON BENEFITS
DERIVED FROM SANTA FE MEETINGS

In a memorandum to Service officials at Washington Headquarters, Stanley W. Abbott, Acting Superintendent of the Blue Ridge Parkway, writes as follows of the benefits he derived from the recent meetings at Santa Fe, as well as from the subsequent field trip:

"I can't picture a ten-day period that would be more informative to a newcomer than listening to the discussions of the Superintendents and of the A.P.C.A., and I am sure the setting of Santa Fe was cunningly designed, if ever a place was, for making friendships with many persons who previously had been just names, more often mimeographed than not.

"The trip that followed to Carlsbad, many of the fascinating southwest monuments, Boulder, Death Valley, Zion, and the Canyon taught me that I had been wholly wrong in my belief that such things could be 'read about' in books. This country for me had a hundred kinds of beauty and all of them very strong. I thought very often of that line in Charles Morgan's book, 'The Fountain', which observes that 'the ultimate at which we arrive is wonder'.

"I want to say that in the largest part I saw only high grade work being done, in planning, development and operation. I was especially pleased to learn something of the interpretive side of the program. All this makes me very glad to have a part, however slight, in the National Parks."

WASHINGTON OFFICE EMPLOYEES RESPOND
GENEROUSLY TO PLEA FOR LIBRARY BOOKS

The little library maintained at El Morro National Monument by Betty Budlong, wife of the Monument Custodian, may have to move into larger quarters.

A short time ago the Service's Editor-in-Chief, at the request of Director Cammerer, circularized Washington Office employees asking that they donate any of their surplus books and magazines to help swell the library collection started by Mrs. Budlong last year in order to furnish her neighbors -- mostly ranchmen and their families -- with suitable reading matter.

More than 500 books and magazines were recently boxed and shipped to Mrs. Budlong so as to reach her during the Christmas season. Director Cammerer made the first donation -- 15 books -- and paid the freight charges on the entire shipment. One member of the Branch of Recreation, Land Planning and State Cooperation bought a half dozen new Kathleen Norris books and also gave several children's books.

* * *

Some of the airplane squadron scenes in the motion picture "20,000 Men A Year" were filmed in Zion Canyon.

ESSAY CONTEST OF INTEREST TO THE SERVICE

Cash prizes totaling \$225 are offered to winners of a Nature Essay Contest sponsored by Claremont Colleges, Claremont, Calif., in connection with its John Muir Nature Enterprise. The contest is part of a project to foster interest in the study of nature and to encourage an appreciation of beauty and other values in nature as a force in noble living. First prize is \$100, second prize is \$75, and third prize is \$50.

According to an announcement issued by Contest officials, each essay

should consist of an original study of some subject in nature or about nature and should embody the appreciation of such factors as beauty, strength, form, variation, and other values thus observed. Manuscripts should be of suitable length for magazine publication and should not exceed 3,000 words. The contest closes February 1, 1940.

Further information concerning the contest may be obtained by writing to the John Muir Nature Enterprise, Room 100, Harper Hall, Claremont, California.

HIGHEST AND LOWEST CONTINENTAL ALTITUDES *

Continent	Highest point	Elevation (Feet)
Asia	Mount Everest, Indo-China	29,141
South America	Mount Aconcagua, Chile-Argentina	22,834
North America	Mount McKinley, Alaska	20,300
Africa	Kibo (Kilimanjaro) Tanganyika Territory	19,710
Europe	Mount Elbruz, Caucasus	18,465
Antarctica	Mount Throvald Nilson	15,400
Australia	Mount Kosciusko, New South Wales	7,328
Continent	Lowest point	Below Sea level (Feet)
Asia	Dead Sea, Palestine	1,290
Africa	Libyan Desert	440
North America	Death Valley, California	280
Europe	Caspian Sea, Russia	86

* World Almanac, 1939.

ADMINISTRATION

Fred G. Bussey of Yellowstone National Park and Elmer A. Johnson of Sequoia National Park are in the Accounts Section to assist in bringing the work up-to-date and to absorb temporarily additional duties created by the new accounting system. This new system is working out very well, but sufficient personnel is not available to operate properly. This difficulty will be overcome if the Bureau of the Budget allows the additional positions requested in the 1941 budget.

* * *

Work on the new field accounting system has not progressed as rapidly as anticipated. However, the Comptroller General has approved the basis for the new procedure and it is hoped to complete the work on it and have it in the field before spring. In addition to revising the fund accounting system, it is proposed to revise the property accounting procedure of the Service. When installed the new procedures will be much more efficient and will relieve the field offices of considerable burden.

The recent change in the CCC accounting procedure has worked out very satisfactorily and it is hoped that further steps may be taken to consolidate CCC procedures with those used for regular appropriations.

* * *

The Budget Bureau hearings on the National Park Service's 1941 appropriation estimates were held November 24-27, inclusive. Undoubtedly the Service will be informed within a

month thereafter of the amounts approved for inclusion in the President's 1941 Budget. All field areas will be advised concerning the approved amounts immediately after the submission of the Budget to the Congress.

* * *

At a luncheon on November 21, Frank L. Ahern, Chief of our Safety Division, had the pleasure of meeting Dr. A. C. Fernandes who has been sent to the United States by the Government of Brazil to study some phases of United States Federal employee administration problems. When Dr. Fernandes returns to Brazil he expects to establish a new division in his country's Civil Service Commission. He is particularly interested in ways and means of reducing accidents to Federal employees. Mr. Ahern explained the purposes of the Federal Interdepartmental Safety Council and its objectives. Dr. Fernandes expects to be in the United States for a period of 8 months and is planning to visit a number of our national parks. Arrangements for the luncheon were made by W. B. Stephens, Coordinator and Director of Training, United States Civil Service Commission.

Mr. Ahern has been cooperating with the Washington Building Congress in the review of the proposed District of Columbia Building Code. He has attended several meetings of the subcommittee on Means of Egress.

* * *

Director Cammerer and Mr. Gable visited Shenandoah National Park October 21

and 22 to inspect the cabins which have been improved by the park operator and to discuss new rates. These Service officials were accompanied by Frederick A. Delano, Chairman, National Capital Park and Planning Commission, Washington, D. C.; Paul Manship, Member of the Commission of Fine Arts, New York City; Hon. Ernest Lundeen, United States Senate; Harlan P. Kelsey, Collaborator at Large, National Park Service, East Boxford, Mass.; H. P. Caemmerer, Secretary and Administrative Officer, Commission of Fine Arts, Washington, D. C., and Earl Godwin, News Reporter and Radio Commentator, *Times-Herald*, Washington, D. C.

* * *

Assistant Superintendent James V. Lloyd of Grand Canyon National Park and Park Naturalist Carl Swartzlow of Lassen Volcanic National Park are on detail in the Washington Office assisting Regional Director Tolson in completing and issuing the National Park Service *Administrative Manual*. Francis W. Watson of the Washington Office Accounts Section is also aiding in this work.

* * *

Upon recommendation of the Park Superintendents at the Santa Fe Conference,

the use of windshield stickers on automobiles has been discontinued and an effort is being made to find some suitable substitute for these stickers before the beginning of the next travel season. It has been suggested that the Service adopt something along the line of the metal buffalo emblem distributed to motor car drivers in the Canadian National Parks. This emblem is generally attached to the license tag or the radiator.

* * *

The 25¢ charge for admission to the Jamestown Island Museum, the Yorktown Historical Museum, and the Moore House, all in Colonial National Historical Park, has been discontinued in favor of free admission to Jamestown, and 10¢ each at the Yorktown Historical Museum and the Moore House.

* * *

Director Cammerer, Chief Counsel Moskey, Land Buyer Sanders, and Chief of the Park Operators Division Gable went to Mammoth Cave on November 18, to attend a meeting of the Mammoth Cave Operating Committee and to take up other important administrative problems in connection with the operation of the park.



RECREATION, LAND PLANNING, AND STATE COOPERATION

Matt C. Huppuch, Senior Recreational Planner, represented the Service at the annual Citizens' Appreciation Day at Laurel Hill Recreational Demonstration Area, Pennsylvania, September 24.

* * *

George W. Olcutt, Sidney S. Kennedy, Frank P. Shore, and James F. Kieley of the Branch attended the joint Eastern Annual Conference of the National Conference of State Parks and annual meeting of the New Jersey Parks Association in Atlantic City, September 25, 26, and 27.

* * *

George L. Collins, Acting Assistant Chief of the Land Planning Division, and Dr. Francis S. Ronalds of the Branch of Historic Sites left Washington November 22 for Puerto Rico where they will make a study of old Fort El Morro for possible inclusion in the national park and monument system. They will be gone 4 or 5 weeks, and will examine other possible park and recreational features of the island. Collaborating with the Service representatives will be an official of the War Department, which has jurisdiction over the fort.

* * *

A special Public Works appropriation of \$5,000 was recently made available to the Service for a detailed and comprehensive study of the recreational potentialities of the Colorado River Authority holdings in Texas. A number of dams which have created

beautiful artificial lakes in the Colorado River make possible the development of some unusually scenic areas as State parks in this part of Texas. A Service representative will begin the study immediately.

* * *

The National Park Service was represented at the September meeting of consultants of the White House Conference on Children in a Democracy by Matt C. Huppuch, Senior Recreational Planner. The consultants discussed the portion of the Conference report which will deal with "Child Development Through Play and Recreation." The general conference, including about 600 persons from all parts of the United States, will meet January 18 to 20, 1940.

The White House Conference on Children in a Democracy developed last March as a result of suggestions received by the President and the Department of Labor from many sources concerning children and the extent to which they might be utilized in respect to democracy. Its membership, including representatives appointed by the governors of States and Territories, is made up of physicians, economists, sociologists, statisticians, educators, clergymen, social workers, housing experts, recreation workers, nutritionists, and representatives of industry, labor, farm groups and professional and civic organizations of men and women, as well as representatives of Federal, State, and local administrative agencies of the government.

RESEARCH AND INFORMATION

Lorenzo Moffett, Museum Preparator-Artist, Western Museum Laboratories, was in the East in November and spent several days in the Museum Division's laboratory in Washington discussing methods of preparation and new techniques employed. He also visited several eastern national parks and monuments, as well as leading museums in Pittsburgh, Washington, New York City, Buffalo, and Chicago. This is the first extensive trip by a western staff artist or preparator and it is felt that the knowledge gained will be of value to the Museum Division in its effort to give the preparation staff a better museum perspective and to keep its exhibits in line with modern methods of presentation and accepted procedures.

Mr. Moffett has been employed in the Western Museum Laboratories for the past 4 years and has assisted Mr. Yeager in directing the activities of approximately 250 ERA, NYA, and CCC workers engaged in the preparation of exhibits and miscellaneous products designed to aid western parks and monuments in their museum and interpretative programs.

* * *

One of the functions of the Naturalist Division which seldom receives recognition is the care of libraries in the national parks. The following excerpt from a report by Dorothy Simmons, Librarian of Yosemite National Park, illustrates the scope of duties and the importance of the work:

"The library contains books which awaken interest in and explain the

out-of-doors and permit detailed studies on a special subject when interest is aroused. This should aid the visitor in properly appreciating Yosemite National Park. The library reading room is constantly filled with visitors during the summer and is a valuable point of contact between the Yosemite educational program and thousands of visitors."

In response to a request from Cornell University as to facilities for research, a count of the books, magazines, bound magazines, and separates reveals the fact that there are approximately 11,000 volumes in the Yosemite library. The continued cataloging of these volumes was an important part of the season's work. In addition, the librarian spent much time checking bibliographies for possible acquisition, looking up references, answering questions, assembling material for staff members, arranging books in their proper order in the reading room, superintending the use of books from the locked cases, and many other related duties.

* * *

In accordance with instructions from Secretary Ickes, plans for the transfer of the Wildlife Division to the Biological Survey have been perfected and action is pending which will place employees of the Division on the payroll of the Biological Survey. The present plan provides for the assignment of all members of the Division to the National Park Service for duty. It is expected that the Washington office staff members will continue to occupy their present

RESEARCH AND INFORMATION

offices and perform their usual duties. No changes in the Regional scheme of handling wildlife matters are anticipated.

* * *

A photographic album is being made by Earl A. Trager, Chief of the Naturalist Division, to tell the story

of Alaska in pictures. This will accompany a report which is being prepared.

* * *

A limited number of copies of the Report of J. Paul Hudson on his European Trip - May 16 to July 17, 1939, are still available in the Museum Division.



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FORESTRY

Completion of Public Works Tree Preservation Contracts.--October saw the final repair work accomplished on the trees of the national cemeteries which were originally treated during 1934 under PWA contracts and supervised by the Branch of Forestry. Under the terms of the rigid guarantee the contractors were required to repair all faulty work over a period of 5 years. During the period covered by the guarantee one contractor died and another went out of business. The bonding companies made good on their sureties and paid for the necessary repair work.

A large proportion of the work done under contract included girdling, root removal, pruning, bracing, fertilizing, and tree removal. No repair work was called for on these phases of tree preservation but all faulty cavities were retreated where necessary. An interesting analysis of the cavity work shows that of 588 cavities excavated and filled only 35 necessitated repairs. Such a record of 94 percent success is unusually satisfactory for this type of work. The analysis is given below:

Cumulative Fire Record.--A copy of the cumulative forest fire report for 1939 through September 30 is appended to this *Bulletin*. It indicates that so far as this year, despite very severe fire danger conditions in the West throughout the summer, the Service has made one of its best fire suppression records. Some of the highlights are: Only 2,598 acres burned in 437 fires; 184 lightning fires set a new high record of fires from this cause, while the 253 man-caused fires are only a very slight increase over previous years despite an increase in use of the parks. More than 164,000 man-hours of CCC time were devoted to fire suppression on fires in or threatening the parks and more than 500,000 man-hours in cooperation with other protection agencies on outside fires. No major and few minor accidents occurred on park fires. The fire prevention campaign, intensive training, planning, and organization have been effective in reducing both number and size of fires.

The fire season in the West is practically over but in the East conditions are still dangerous.

Location	Number of trees	Cavities treated	Filling material	Cavities repaired	Percentage successful
Antietam	262	206	Concrete	18	91.3)
Fredericksburg	197	51	"	8	84.3)
Yorktown	74	2	"	0	100.)
Chattanooga	773	93	Flexifil	1	98.9)
Vicksburg	484	69	"	7	90.)
Stones River	226	17	"	0	100.)
Chalmette	30	150	"	1	99.3)
Totals	2,046	588		35	94

HAVE YOU READ ?

BOTHWELL, J. HENRY. (Editor, Official Bulletin, United States Travel Bureau) See America First. America First, September 1939.

BRYANT, DR. HAROLD C. (Acting Superintendent, Grand Canyon National Park.) Conservation of National Parks. Region III Quarterly, 1: 12-16, October 1939.

CARTWRIGHT, MORSE A. The Place of the Museum in Adult Education. The Museum News, 17, 10-12, October 15, 1939.

COLE, DR. A. C., JR. A New Ant from the Great Smoky Mountains, Tennessee. American Midland Naturalist, pp. 413-17, September, 1939.

GARTSIDE, FRANK T. (Acting Superintendent, National Capital Parks.) Use of Trailers in Recreation Areas. Parks and Recreation, 23: 56-59, October 1939.

GRATER, RUSSELL K. (Junior Park Naturalist, Boulder Dam National Recreational Area.) Taking a Wildlife Census. Region III Quarterly, 1: 17-21, October 1939.

-----Further Notes On the Feeding Habits of the Treganza Blue Heron. Condor, 41: 217, September-October 1939.

GRIMM, RUDOLF L. (District Ranger, Yellowstone National Park) Northern Yellowstone Winter Range Studies. Journal of Wildlife Management, 3: 295-306, October 1939.

HALL, JOSEPH S. (Technical Collaborator, National Park Service) Recording Speech in the Great Smokies. The Regional Review, 3: 3-8, October-November 1939.

HAURY, EMIL W. How Ancient Timbers Gave Clues to Long-Sought Dates. Article 10 of the series "Our Own American Citizens and the Southwest Which They Colonized", being issued by the National Park Service, explaining the significance of the Coronado Quarto Centennial and the Centennial of Adolph Bandelier, pioneer anthropologist and archeologist for whom Bandelier National Monument is named. 10 pages mimeographed.

HENDERSON, RANDALL. New Gateway To Grand Canyon. The Desert Magazine, 3: 18-24, December 1939.

JONES, M. D. (Assistant Engineer, Region I) Living Museums of Norway and Sweden. The Regional Review, 3: 23-5, October-November 1939.

MAIER, HERBERT (Associate Regional Director) International Areas. Region III Quarterly, 1: 22-6, October 1939.

MCDUGALL, DR. W. B. (Regional Wildlife Technician) Wildlife Management. Region III Quarterly, 1: 36-40, October 1939.

MERRIAM, JOHN C. Influence of Science Upon Appreciation of Nature. National Parks Bulletin, 14: 5-8, November 1939.

NUSBAUM, JESSE L. (Senior Archeologist) Certain Aspects of the Proposed Escalante National Monument in Southwestern Utah. Region III Quarterly, 1: 27-30, October 1939.

O'NEIL, W. E., JR. (Associate Engineer, Region I) H₂O. The Regional Review, 3: 19-21, October-November 1939.

PINKLEY, FRANK (Superintendent, Southwestern National Monuments) Synthetic Scenery. Region III Quarterly, 1; 7-11, October 1939.

ROBINSON, R. C. Picnicking - Its More Than Eating Deviled Eggs. The Regional Review, 3: 13-5, October 1939.

SMITH, MRS. WHITE MOUNTAIN. Christmas Lights In The Desert. The Desert Magazine, 3: 6-7, December 1939

SPINDEN, DR. H. J. Pueblo Bonito. Region III Quarterly, 1: 4-6, October 1939.

TOLSON, HILLORY A. (Regional Director, Region III) The Third National Park Conference. Region III Quarterly, 1: 31-5, October 1939.

YATES, BOWLING C., JR. (Superintendent, Kennesaw Mountain National Battlefield Park) Kennesaw Mountain and Atlanta Campaign. The Regional Review, 3: 9-12, October-November 1939.

BULLETINS:

A Report on Mobile Antennas for the Intermediate Frequencies, by W. C. Hilgedick, (Associate Communications Engineer). Issued by the Service in collaboration with Stanford Univer-

sity. 38 pp., mimeographed, illustrated.

* * *

The Council Ring. Vol. I, No. 12, November 13, 1939. A 4-page multilithed pamphlet presenting current views on conservation and planning for the information of National Park Service personnel. Contains excerpts from paper by Aldo Leopold entitled "A Biotic View of Land" published in *The Journal of Forestry*, September 1, 1939.

* * *

Trailing The Forty-niners Through Death Valley, by Carl I. Wheat. (Reprinted from the *Sierra Club Bulletin*, Vol. 24, No. 3, June 1939.) Printed by Taylor & Taylor, San Francisco, 37 pp., illustrated.

* * *

Study of the Organization of the National Capital Parks, by H. S. Wagner and Charles G. Sauer, Collaborators-at-Large. 51 pp., mimeographed.

* * *

Report of J. Paul Hudson on European Trip of May 16-July 17, 1939, during which he studied museum developments. 19 pp., mimeographed. Mr. Hudson is one of the Field Curators in the Service's Museum Division.

* * *

Multilithed folders descriptive of *Death Valley National Monument*, California, and *Boulder Dam National Recreational Area*, Arizona, Nevada. Multilithed. Issued by National Park Service for free distribution.

The Tetons In Pictures by Harrison R. Crandall. Published by the Crandall Studios, Grand Teton National Park.

* * *

Official Bulletin, United States Travel Bureau, United States Department of the Interior. Nos. 13-16, 4 pp., multilithed.

* * *

Travel News, mimeographed statement issued bi-weekly by the San Francisco Office, United States Travel Bureau.

* * *

BOOKS:

AMERICA'S HOUSE OF LORDS, An Inquiry Into The Freedom Of The Press, by Harold L. Ickes, Secretary of the Interior. Harcourt, Brace and Company, New York, N. Y. 1939. 214 p. Price \$1.50.

* * *

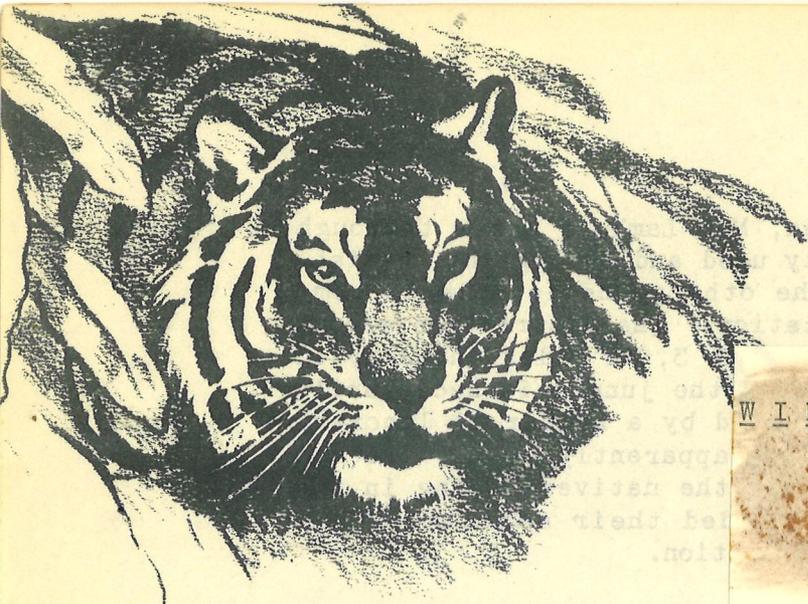
CHEETA, by Dorr Yeager. The Penn Publishing Company, Philadelphia, Pa. 1939. 264 p. Illus., Price \$2.

Described by the publishers as being for young people from 12 to 16, this thrilling story of a mountain lion set against the rugged background of the Rockies, makes interesting reading for adults as well. Other books by the author are *Bob Flame, Ranger*; *Bob Flame, Rocky Mountain Ranger*; *Scarface, the Story of a Grizzly*; and *Our Wilderness Neighbors*, a description of the most interesting animals in Yellowstone.

* * *

NAHUEL HUAPI NATIONAL PARK. Published by the Ministry of Agriculture, Argentine Republic, 1938-39. Illustrated. 124 pp.

A comprehensive guide to one of Argentina's most beautiful national parks, establishment of which was made possible by a donation of Francisco P. Moreno in 1904. The book is profusely illustrated with fine photographs ranging in subject from hotel interiors to mountain scenes and views of Lake Nahuel Huapi after which the park is named. A de luxe copy, bound in goatskin, has been presented to Chief Forester John D. Coffman.



W I L D L I F E I N I N D I A

By

Victor H. Cahalane,
Chief, Wildlife Division,
National Park Service

A striking and colorful personality strode into my office one day last June. As he talked and gestured one could almost hear the head hunters shout, the tigers roar and the elephants trumpet as they pass through his forests. Tall, lean, marked by sieges of tropical fever, this amazing young Britisher, with such magnetism and charm, was administrator of a civil district in Assam, northeastern India. En route to England "the long way 'round," he visited national parks and Indian reservations of this country gathering supplemental information to aid him in his own work. In Washington, he gave me many interesting sidelights that are worth passing on to the National Park Service personnel.

E. T. D. Lambert has lived in Assam for 10 years, the last several years of which he has had charge of a district comprising jungle and foothills (the Naga Hills) of the Himalayas. He is the only white man at his headquarters and not even his assistants speak English.



Of the 16 local dialects spoken, Mr. Lambert has a thorough knowledge of the one most widely used and through his assistants, who are familiar with the others, he is able to communicate with the general population. The district is almost roadless and Mr. Lambert walks about 3,000 miles annually in making his rounds. Travel through the jungle is necessarily difficult and he is always preceded by a number of laborers who clear the trail. The British apparently do not pretend to exercise much supervision over the natives living in the foothills country but have extended their administration rather thoroughly over the jungle section.

An extremely unhealthy country, it has been swept until recently by smallpox, bubonic plague, and various fevers including the 99.9% fatal blackwater fever. Great strides have been made in stamping out these diseases and the population has increased enormously. Unfortunately, this brings economic problems that are even more difficult of solution. Epidemics still break out occasionally and lockjaw is particularly difficult to control. Mr. Lambert described an incident preliminary to an outbreak of this disease which arose from the discovery of a dead elephant. With great jubilation the entire neighboring village of natives speedily carved up the elephant, and devoured the meat. The animal had been infected with lockjaw and a hundred people died from the effects of this feast.

Until about 20 years ago, all of the people of Mr. Lambert's section were head hunters and the British have succeeded in stamping out the practice only on the lowlying plains. Head-hunting is a part of the native religion, arising from the belief that soul-stuff is a tangible and, of course, valuable commodity. Each tribe wishes to build up its supply of soul matter which it believes exists in human beings, trees, the ground, and certain other objects. It is obvious that a most profitable means of collecting this spiritual wealth is to gather the heads of persons outside the tribe, and raids for this purpose were formerly a common occurrence. Although the British have respected most of the features of native religion, they have forbidden this custom and have expected the death penalty wherever possible.

A further religious belief is the firm conviction that women are able to bewitch each other. In his capacity as Civil Magistrate, Mr. Lambert holds trials for witchcraft, assuming on such occasions almost a distinct native personality.

The plaintiff points out the accredited witch, relates the circumstances by which the accused crept into her room while she was asleep and laid a hand on her forehead, casting an evil spell. The Magistrate then closely questions the principals and all witnesses. If it is clearly proven that this act was performed the proper penalty is applied.

Under British administration, India has set up a series of wildlife refuges that are complete sanctuaries. No creature is ever killed within their borders and animals that periodically leave the refuges for harmful raids on farms and other property outside are killed only after thorough investigation. The refuge system is about a half century old and some of these areas have been established for that length of time. Despite complete protection of leopards, tigers, and cobras, no prey species has been exterminated. The sanctuaries are rigorously protected from any form of economic use and poaching is almost nonexistent because of the efficient patrols and severe penalty exacted for detected infringement. Both within and without the boundaries of these refuges the animal population of this district in Assam is abundant and diversified.

Elephants are still numerous and bulls are shot only under individual permit except when crazed by "must". Mr. Lambert mentioned that he had been forced to kill several animals attacked with this madness. Because he is rather modest about his marksmanship, he uses an elephant gun of .67 caliber, the shell being about 6 inches long. The stock is equipped with an extension of rubber 4 or 5 inches thick which takes up part of the shock of the recoil. In spite of this pad it is impossible to fire the gun while lying down or if braced against any object as the shock would break a man's collarbone and shoulder. With a gun of this power a shot into an elephant's brain penetrates and kills from almost any angle. With lighter guns a shot is effective from only one angle because other sections of the brain are protected by the very thick and hard skull covering. The British have therefore set a minimum size of .35 as the smallest caliber that may be used for elephants.

Tigers very rarely become man-eaters. They are numerous but comparatively little trouble is experienced from them. De-testing man, his odor, and all his works, they will not even attack cattle that are in or around buildings or occupying a man-made clearing in the jungle unless forced by pressure of extraordinary hunger.

Throughout India they are regarded as rather useful beasts, keeping down the number of deer and other wild browsing and grazing animals, which, if allowed to increase unchecked, would make agriculture and domestic stockraising almost impossible. Three or four years ago tigers became extremely abundant in Assam and made many unprecedented attacks on cattle. Deer were temporarily scarce due to overhunting and it was believed that the tigers were turning to domestic stock because of lack of normal food. Instead of declaring an extermination campaign against the tigers, a closed season was placed on the deer which rapidly increased. The tigers then returned to their regular diet, let the livestock alone, and everyone was happy except perhaps the deer.

Immediately around Mr. Lambert's headquarters is potential hunting that would turn the greatest American sportsmen green with envy. Besides the elephant, tiger, leopard, sloth bear, and deer, there are seven or eight kinds of pheasants including some of the most beautifully and brilliantly colored in the world, as well as other game birds and mammals.

Hunting is controlled by carefully devised regulations and by the unique means of limiting the supply of arms and ammunition. Anyone, be he British lord or Indian farmer, in order to secure a firearm of any kind, must apply to the administrator of the district. If the administrator considers him to be a proper person to have a gun he is referred to the Chief of Police who investigates him thoroughly, sending an inspector to check up on his physical fitness, also his police and other records.

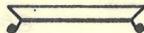
If and when the permit is issued, the applicant must purchase a hunting license which is printed on a large paper bearing on the back a summary of the hunting regulations and list of animals, wholly or partly protected, and on the face a blank space for the record of ammunition purchased. Bearing his license, the hunter then applies to the keeper of a licensed ammunition shop, who fills in the amount and kind of cartridges purchased as a reference for future transactions. The annual limit per person is 60 rounds. No exceptions are made for anyone. This amount must suffice for all purposes whether for sport or for meat hunting and acts as a deterrent upon unlimited hunting and wastage of game through needless wounding. It also helps to keep down the number of animals that would be shot allegedly for damaging crops or cattle.

ABOUT FOLKS

For instance, a farmer may come to the administrator with his complaint that a tiger has for several weeks been preying on his bullocks, or that an elephant has taken up residence in the vicinity of his farm and has proceeded to trample down and destroy crops. The administrator will send one of his native assistants to determine the facts in the case and if they are as represented a permit will be issued to the farmer to destroy the offending animal. The ammunition, however, comes out of the farmer's individual allotment of 60 rounds per year. If the damage is not very great and he has no immediate yen for a tiger skin or elephant steaks, the plaintiff will frequently prefer to try less drastic methods of discouraging these unwelcome visits.

"I say," inquired Mr. Lambert politely, "why does your country allow so many firearms and cartridges? Your Indians no longer go on the warpath, do they?"

Protecting American wildlife under our free and easy regulations involves many difficulties. Control of ammunition, as in India, would certainly facilitate the enforcement of our game laws!



ABOUT FOLKS

Col. John R. White, Chief of Operations, is confined to Walter Reed Hospital, Washington, D. C., receiving treatment for a duodenal ulcer.

* * *

E. E. Tillett, former Chief Accountant of the National Park Service, who for the last 5 years has been supervisor of CCC operations under Service direction in the Territory of Hawaii, resigned, effective October 15, to become Chief Budget Officer of the Territory. His efficient supervision of CCC operations in Hawaii National Park and in other parts of the islands has resulted in substantial accomplishments in the cause of conservation and recreation with careful adherence to sound Service policies of planning and development.

Everett A. Pesonen, Assistant Regional Director of Region III, has been appointed to succeed Mr. Tillett. He called at the Washington Office early in December to receive final instructions and discuss the details of his new assignment.

* * *

Wendell Little, Planning Coordinator in Land Planning, received his master's degree in Public Administration at the fall convocation, American University, on his thesis "Land Planning in the National Park Service." Mr. Little received his A.B. at the University of Texas in 1932, and is now studying law at George Washington. While in high school, in New Mexico, in 1928, he won the National Oratori-

cal Contest, and while at the University of Texas went in for debating. Mr. Little is a 2nd Lieutenant QMC.

* * *

Ranger Arthur L. Jess of Hawaii Park made a good showing in the Hawaiian Islands Cribbage Tournament held in September. He was defeated in the semi-finals by the Island champion.

* * *

Foreman Hunt of Colonial National Historical Park resigned recently to accept a position with the Panama Canal.

* * *

Marguerite Walker, Seasonal Park Ranger at Carlsbad Caverns, resigned on October 31.

* * *

J. Edgar Hoover, Director of the Federal Bureau of Investigation, and Mr. and Mrs. Douglas Corrigan were recent visitors to Muir Woods National Monument.

* * *

Associate Regional Director Perry R. Gage, Region IV, has resigned from the Service to become associated with the Yosemite Park and Curry Company, concession operators at Yosemite.

* * *

Thomas E. Adams, of Maine, has been appointed as Junior Forester, CCC, Colonial National Historical Park.

Johnwill Faris has been appointed Custodian of White Sands National Monument and *Ira John Peavy* has been appointed to serve in a similar capacity at Tonto National Monument.

* * *

Superintendent Floyd Wilcox of Chalmette National Cemetery has been transferred from the War Department to the Chalmette National Historical Park.

Thor Borresen, Junior Research Technician, Colonial, has transferred, as Assistant Research Technician, to Region I, Camp Service Unit, Richmond.

* * *

Mrs. Julie Woodring of Mount Rainier National Park came East following former Superintendent Woodring's funeral and during a week-end spent in Washington visited several Service friends.



Superintendent Boles of Carlsbad Caverns and some of his recent visitors. L-R: Superintendent Hoskins of Mammoth Cave, General Manager W.W. Thompson of Mammoth Cave, Superintendent Boles, Mrs. Liek and Superintendent Liek of Wind Cave. (Kennicott Photo)

Thos. C. Vint, Chief of Planning, Branch of Plans and Design, completed seventeen years of continuous service in the National Park Service on November 1.

* * *

Herbert J. Quick, formerly of Sequoia National Park, is now serving as General Foreman in Hawaii National Park. Mrs. Quick and little Sharon, their 1-year-old daughter, accompanied Mr. Quick to his new post.

* * *

Lieutenant Colonel Calvin Goddard, ordnance consultant and ballistics expert, recently concluded his seasonal appointment as Ranger-Historian at Petersburg National Military Park. While at the park Colonel Goddard aided in locating and acquiring ordnance of the Civil War period suitable for exhibit at Petersburg, where it is hoped one or more specimens of all types of cannon used in the campaign of 1864-65 will be displayed.

* * *

Assistant Research Technician Joseph M. Hanson, of the Richmond Regional Office, has transferred to Petersburg National Military Park where he is giving historical supervision to CCC activities and carrying on research.

* * *

Roger M. Rittase, of the Service's Equipment Division, was awarded first prize in oil painting for a landscape "Spring in Maryland" in the Metropolitan State Art Contest held at the Smithsonian Institution, Washington, D. C., in November. The exhibition was

under the auspices of the D. C. Federation of Women's Clubs and any artists residing in the District of Columbia or within a radius of 20 miles were eligible to compete.

* * *

A. J. Harrison recently transferred from Yosemite National Park to Carlsbad Caverns National Park to serve as Chief Clerk.

* * *

Acting Park Historian Virginia Sutton Harrington of Colonial National Historical Park resigned from the Service in October.

* * *

Park Ranger Jack B. Broadbent of Mount Rainier National Park has transferred to Olympic National Park.

* * *

Mr. and Mrs. Isaac Louis Bowman, parents of Ruby G. Bollman of the Editor-in-Chief's Office, celebrated their 50th wedding anniversary in November.

* * *

Madeleine McGrath, Assistant Editor-in-Chief, recently visited Santa Fe, San Francisco, Denver, and Omaha to arrange with regional officers and commercial firms for the printing of the 1940 information circulars.

* * *

Automobile Mechanic Rufus Cramer of Yellowstone National Park has transferred to the Boulder Dam National Recreational Area.

Superintendent and Mrs. Boles of
 Mount McKinley National Park
 wearing buttons "Carlsbad" in
 honor of the location and
 east of the fountain were
 taken in a few cases by a
 detective sign between fence
 and chimney. The glass is
 being repaired at the
 local company.

Superintendent Boles of Carlsbad
 Caverns snapped this picture of
 Oscar L. Chapman, Assistant Sec-
 retary of the Interior and "Lit-
 tle Sunset" of San Ildefonso
 Pueblo. This Pueblo, notable for
 its pottery, was one of the points
 of interest visited by officials
 who attended the recent Superin-
 tendent's Conference and the meet-
 ings of the American Planning And
 Civic Association held in Santa
 Fe, N. Mex.



V. K. Brown, Director of Recreation for the Chicago Park District and for many years a Director of the American Institute of Park Executives, was recently elected President of that organization. At the same time *Walter L. Wirth*, Superintendent of Parks, New Haven, Conn., (he is the brother of *Conrad L. Wirth*, Supervisor of Recreation and Land Planning) was elected Vice-President. *Ed. H. Bean*, Director of Chicago Zoological Garden, was con-

tinued as Treasurer, and *R. S. Marshall*, Superintendent of Parks and Recreation, Birmingham, Ala., and *C. A. Bossen*, General Superintendent of Parks, Minneapolis, Minn., were elected as Directors for a 3-year period. *Frank T. Gartside*, Acting Superintendent of National Capital Parks, and a Director of the Institute, was appointed a member of the Editorial Board of *Parks and Recreation*, official publication of the Institute.



Superintendent and Mrs. Been of Mount McKinley National Park wearing borrowed "feathers." In October the Liek residence and most of the furnishings were destroyed in a fire caused by a defective pipe between furnace and chimney. The Lieks' are living temporarily at the rangers' dormitory.

H. A. Hochbaum, formerly Assistant Wildlife Technician in the north-eastern States, is now Director of the Delta Duck Station, Delta, Manitoba.

* * *

Ranger Lemuel M. Garrison, of Yosemite National Park has been appointed Superintendent of Hopewell Village National Historic Site.

* * *

Assistant Research Technician Ralston B. Lattimore, Fort Pulaski National Monument, has transferred to the Region I Office.

* * *

Auditor Bernard L. Douglas is now attached to Region IV headquarters at San Francisco, having been transferred from Region I. *Auditors Paul H. Gal-*

agher and *Frank J. Kaspar*, formerly assigned to Region II, are now with the Region I Office.

* * *

The Branch of Recreation, Land Planning and State Cooperation has entered a team in the I.D.R.A. Basketball League and its members are already spending a good deal of time practicing in the gymnasium. The line-up will include such veterans and star players as *Conrad L. Wirth*, *Fred T. Johnston*, *Rowe Morell*, *Howard Chittick* and *Bob Sherer*. The team is managed by *Earl Weatherwax*.

* * *

*Eugene A. Gisse*y, CCC Senior Project Superintendent at Colonial, has transferred to Shenandoah National Park. *Albert H. McDill, Jr.*, CCC Project Superintendent, Douthat State Park, Virginia, has been appointed to the Colonial post.

Junior Park Naturalist Donald J. Erskine, Boulder Dam National Recreational Area, has been selected for the post of Scoutmaster of Boulder City Troop #61, Boy Scouts of America. *Associate Park Naturalist Robert H. Rose* has been honored with appointment as Troop Committeeman.

* * *

Henry J. Ferguson, Loren E. Lane, Floyd A. Henderson, and Donald H. Robinson have been appointed Rangers at Glacier National Park.

* * *

At the annual meeting of the alumni of the Yosemite School of Field Natural History held at Muir Woods National Monument October 22, *Field Naturalist Joseph S. Dixon* was given the "permanent loan" of a Kodachrome slide projector of the newest type and a Dalite screen in honor of his 25th wedding anniversary which he and Mrs. Dixon observed on the following day. Mr. Dixon has had charge of the annual field trip of the Yosemite School since 1933.

* * *

Harold R. Henning has been appointed to serve as a Ranger at Mount McKinley National Park throughout the winter. Prior to the appointment Henning had charge of the 40 sled dogs at Park Headquarters.

* * *

Assistant to the Superintendent Joffe and Chief Ranger LaNoue of Yellowstone National Park represented the Service at the Dude Rancher's Convention in Casper, Wyo., October 26-29.

Doris Rothwell, Junior Administrative Assistant of the Progress and Costs Division, Branch of Recreation, Land Planning and State Cooperation, won the girls' singles in the I.D.R.A. Tennis Tournament held in September. With Richard Lemke, formerly of the Service and now with the Public Works Administration, she also won the mixed doubles.

BORN:

A daughter, *Margaret Louise*, to Senior Clerk and Mrs. *Dwight Humphreys* of Yosemite National Park, September 2.

A daughter, to Mr. and Mrs. *C. L. Howard* of Yellowstone National Park, October 4. Mr. Howard is Chief of the Park's Weather Bureau.

A daughter, *Patricia Marie*, to Chief Clerk and Mrs. *J. R. Walt* of Mesa Verde National Park, October 21.

A daughter, *Georgiana Jean*, to General Supervisor and Mrs. *George W. Fry* of Rocky Mountain National Park, October 23.

A son, to Custodian and Mrs. *Merrill J. Mattes* of Scotts Bluff National Monument, November 2.

A daughter, *Brenda Gail*, to Mr. and Mrs. *Philip Mabel*, Acadia National Park, November 9.

A son, *Thomas Alan, Jr.*, to Mr. and Mrs. *Thomas Alan Sullivan*, November 20. Mr. Sullivan is Chief of the Legislative Section, Office of the Chief Counsel.

A son, *James Newell*, to Custodian and Mrs. *Newell F. Joyner* of Devils Tower National Monument, November 23.

A son, to Acting Superintendent and Mrs. Stanley W. Abbott of the Blue Ridge Parkway, November 27.

MARRIED:

Cornelia Mildred Muse, of Westmoreland County, Virginia, and Charles Eldridge Hatch, Junior Park Research Technician, CCC, Colonial National Historical Park, September 16.

Phyllis Samson, niece of C. A. Hamilton, one of the Yellowstone National Park Operators, and District Park Ranger Lee Coleman, October 14, at Duluth, Minn. The newlyweds are residing in the isolated Bechler River Ranger Station in the southwest corner of Yellowstone.

Donna Carveth, Assistant Clerk-Stenographer at Grand Teton National Park, and Charles Worthington, former seasonal park ranger at Grand Teton, October 28 at Idaho Falls, Idaho. Miss Carveth was formerly connected with the Washington Office of the Park Service.

Cecil Taylor of Moab, Utah, and Assistant Clerk-Stenographer Arthur Gilmore of Mesa Verde National Park, November 4. Mrs. Gilmore is the daughter of L. L. "Bish" Taylor, active in the development of Arches National Monument and the Escalante area.

Margaret Thrift of the National Capital Parks Office and R. Paul Weesner of the Chief Counsel's Office November 4.

Rosalie Dolores Cogan of the Editor-in-Chief's Office, and Robert Maxwell Clover of the Washington Staff of the Associated Press, at Fredericksburg, Virginia, November 30.

DIED:

William G. Weber, 59, Guide at the Statue of Liberty National Monument, October 12.

Raymond A. Johnson, Temporary Ranger, Rocky Mountain National Park, October 14 of injuries received in a motor crash.

Edwin Z. Perry, stepfather of Park Rangers Bert and Joe Fraser of Rocky Mountain, in Denver, October 15.

Mrs. Thomas A. Kelly, mother of E. J. Kelly, Administrative Assistant, National Capital Parks, at Grand Rapids, Mich., October 27 of injuries received in a motor accident.

Martin Buggeln, 72, pioneer Arizona railroader and rancher and owner of the V Bar V Ranch in Grand Canyon National Park, November 19.

Louis Brandt, Assistant Landscape Architect, Region IV, November 21.

Father of Regional Forester Frank W. Childs, Region II, at Cedaredge, Colo., November 21.

Mrs. Carrie B. Edwards, mother of Perry D. Edwards, Chief, Accounts Section, November 28.

NATIONAL PARK SERVICE
CUMULATIVE FIRE REPORT

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Page 1

Name	CLASSIFICATION				POINT OF ORIGIN				CAUSES OF FIRES									
	A	B	C	TOTAL	INSIDE PARKS		OUTSIDE PARKS		Lightning	Camp-fires	Smokers	Debris burning	Incediary	Lumbering	Railroads	Miscellaneous	Total man-caused	Grand total
	1/4 acre or less	Between 1/4 and 10 acres	10 acres or over	All classes A-B-C	On Government land	On private land	Entered park	Confined to outside areas										
Region I																		
National Parks:																		
Acadia	5	7	1	13	8	1	-	4	1	-	8	1	3	-	-	-	12	13
Great Smoky Mountains	7	7	9	23	8	1	1	13	4	-	3	2	13	-	-	1	19	23
Mammoth Cave	1	6	5	12	7	1	2	2	-	-	1	4	6	-	-	1	12	12
Shenandoah	1	1	6	8	3	-	2	3	-	-	3	1	3	-	-	1	8	8
Military and Historical Parks:																		
Chickamauga-Chattanooga	6	3	1	10	8	-	2	-	-	-	8	-	-	-	2	-	10	10
Colonial	-	2	-	2	1	-	-	1	-	-	2	-	-	-	-	-	2	2
Fredericksburg	-	2	1	3	1	-	-	2	-	-	2	1	-	-	-	-	3	3
Kennesaw Mountain	2	2	-	4	3	-	1	-	-	-	-	1	2	-	-	1	4	4
Morristown	1	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	1	1
Petersburg	-	1	3	4	-	-	1	3	-	-	-	2	-	-	2	-	4	4
Shiloh	5	3	1	9	6	-	1	2	-	-	7	1	1	-	-	-	9	9
Stones River	-	1	-	1	-	-	1	-	-	-	1	-	-	-	-	-	1	1
Vicksburg	6	6	1	13	7	-	4	2	-	-	7	4	1	-	1	-	13	13
National Parkways:																		
Blue Ridge	2	5	2	9	6	-	2	1	-	-	4	2	2	-	-	1	9	9
Natchez Trace	1	6	6	13	6	-	6	1	-	-	6	6	-	-	-	1	13	13
National Capital Parks	-	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	1	1
Total	37	53	36	126	66	3	23	34	5	-	54	25	31	-	5	6	121	126
Region II																		
National Parks:																		
Grand Teton	13	-	-	13	10	-	-	3	1	5	6	-	-	-	-	1	12	13
Yellowstone	25	6	4	35	31	-	-	4	16	-	9	-	9	-	-	1	19	35
Total	38	6	4	48	41	-	-	4	17	5	15	-	9	-	-	2	31	48
Region III																		
National Parks:																		
Grand Canyon	13	5	1	19	18	-	1	-	15	1	3	-	-	-	-	-	4	19
Hot Springs	4	-	1	5	3	-	-	2	1	-	3	-	-	1	-	-	4	5
Mesa Verde	8	1	-	9	5	-	-	4	7	-	1	1	-	-	-	-	2	9
Platt	2	1	-	3	2	-	1	-	-	-	2	-	-	-	-	1	3	3
Carlsbad	1	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	1	1
National Monuments:																		
Bandelier	3	1	-	4	4	-	-	-	3	1	-	-	-	-	-	-	1	4
Saguaro	5	2	-	7	7	-	-	-	7	-	-	-	-	-	-	-	1	7
White Sands	-	1	-	1	-	1	-	-	-	-	1	-	-	-	-	-	1	1
Total	36	11	2	49	40	1	2	6	33	2	11	1	-	1	-	1	16	49
Region IV																		
National Parks:																		
Bryce Canyon	2	-	2	4	2	-	-	2	1	-	2	1	-	-	-	-	3	4
Crater Lake	12	3	-	15	13	-	-	2	13	-	1	-	-	-	-	1	2	15
General Grant	11	3	6	20	2	-	-	21	15	-	5	1	-	-	-	2	8	23
Glacier	33	3	1	37	33	1	3	3	17	1	15	2	2	-	-	-	20	37
Lassen Volcanic	6	3	-	9	8	-	-	-	9	-	-	-	-	-	-	-	9	9
Mount Rainier	3	-	-	3	3	-	-	-	2	-	1	-	-	-	-	1	3	3
Olympic	5	-	-	5	2	3	-	-	1	1	-	-	-	2	1	5	5	
Sequoia	35	4	6	45	35	-	-	10	33	1	8	-	-	-	-	3	12	45
Yosemite	49	12	-	61	60	1	-	-	32	1	27	-	-	-	-	1	29	61
Zion	2	1	-	3	3	-	-	-	2	1	-	-	-	-	-	-	1	3
National Monuments:																		
Lava Beds	7	1	-	8	6	-	-	2	4	-	4	-	-	-	-	-	4	8
Oregon Caves	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	1	1
Total	169	30	15	214	168	6	-	40	129	5	63	4	2	-	2	9	85	214
Grand Total	280	100	57	437	318	10	25	84	184	12	143	30	42	1	7	18	253	437

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Page 2

Name	BURNED AREA INSIDE PARKS (Nearest whole acre)				TIMBER DESTROYED INSIDE PARKS			COST OF FIRE SUPPRESSION (To nearest whole dollar)								
	Timber (Acres)	Brush (Acres)	Grass (Acres)	Total (Acres)	Government (M.B.F.)	Private (M.B.F.)	Total (M.B.F.)	Personal services (Dollars)	Supplies, transportation, etc. (Dollars)	Equip- ment (Dollars)	Indirect costs prorated (Dollars)	Total (Dollars)	Salaries of park employees not paid from F.F.F. (Dollars)	Grand total (Dollars)	CCC man-days contrib- uted (Number)	Value of CCC contribution (Dollars)
Region I																
National Parks:																
Acadia	4	-	4	8	-	-	-	-	-	-	-	-	90	90	838	1,521
Great Smoky	72	-	1	73	-	-	-	34	-	-	-	-	53	87	653	1,096
Mammoth Cave	56	-	32	88	-	-	-	-	-	-	-	-	48	48	305	565
Shenandoah	118	-	-	118	-	-	-	-	-	-	-	-	25	25	511	925
Military and Historical Parks:																
Chickamauga-Chattanooga	12	1	2	15	-	-	-	-	-	-	-	-	10	10	31	61
Colonial	1	-	-	1	-	-	-	-	-	-	-	-	7	7	3	7
Fredericksburg	-	1	-	1	-	-	-	-	-	-	-	-	-	-	12	31
Kennesaw Mountain	2	-	-	2	-	-	-	-	-	-	-	-	-	-	14	28
Petersburg	-	-	10	10	-	-	-	-	-	-	-	-	-	-	33	68
Shiloh	53	-	7	60	-	-	-	-	2	-	-	-	13	15	96	156
Stones River	-	1	-	1	-	-	-	-	-	-	-	-	1	1	-	-
Vicksburg	-	-	3	3	-	-	-	-	-	-	-	-	2	2	12	29
National Parkways:																
Blue Ridge	14	3	8	25	-	-	-	-	-	-	-	-	13	13	58	108
Natchez Trace	17	1	33	51	-	-	-	-	-	-	-	-	19	19	-	-
National Capital Parks	3	-	-	3	-	-	-	-	-	-	-	-	-	-	4	7
Total	352	7	100	459	-	-	-	34	2	-	-	-	281	317	2,570	4,672
Region II																
National Parks:																
Grand Teton	-	-	-	-	-	-	-	-	-	-	-	-	38	38	6	10
Yellowstone	1,420	-	401	1,821	-	-	-	3,813	11,009	9,690	4,961	29,473	1,667	31,140	6,838	12,177
Total	1,420	-	401	1,821	-	-	-	3,813	11,009	9,690	4,961	29,473	1,705	31,178	6,844	12,187
Region III																
National Parks:																
Grand Canyon	9	-	-	9	2	-	2	37	21	-	70	128	76	204	168	254
Hot Springs	-	-	-	-	-	-	-	-	-	-	-	-	11	11	-	-
Mesa Verde	4	1	-	5	-	-	-	-	12	15	-	27	23	50	55	83
Platt	-	-	2	2	-	-	-	-	-	-	-	-	2	2	1	2
Carlsbad	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
National Monuments:																
Bandelier	-	-	1	1	-	-	-	6	-	-	-	6	9	15	42	63
Saguaro	-	-	11	11	-	-	-	103	-	-	-	103	-	103	-	-
White Sands	-	-	1	1	-	-	-	-	-	-	-	-	3	3	-	-
Total	13	1	15	29	2	-	2	146	33	15	70	264	125	389	266	402
Region IV																
National Parks:																
Bryce Canyon	-	-	-	-	-	-	-	-	-	-	-	-	13	13	28	43
Crater Lake	1	-	-	1	-	-	-	14	31	-	13	58	171	229	484	817
General Grant	-	-	-	-	-	-	-	-	-	-	-	-	52	52	2,281	4,753
Glacier	37	-	9	46	103	-	103	1,147	612	511	455	2,725	390	3,115	1,294	2,378
Lassen Volcanic	2	1	-	3	-	-	-	14	-	-	-	14	175	189	89	164
Mount Rainier	1	-	-	1	1	-	1	-	23	-	-	23	30	53	113	231
Olympic	1	-	-	1	-	-	-	-	-	-	-	-	56	56	72	131
Sequoia	9	100	100	209	-	-	-	158	891	4,049	-	5,098	490	5,588	5,093	10,994
Yosemite	18	1	-	19	40	-	40	32	5	32	2	71	235	306	1,329	2,230
Zion	3	-	-	3	-	-	-	-	-	-	-	-	20	20	16	21
National Monuments:																
Lava Beds	-	-	6	6	-	-	-	-	-	-	-	-	25	25	72	125
Oregon Caves	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	10
Total	72	102	115	289	144	-	144	1,365	1,562	4,592	470	7,989	1,662	9,651	10,836	21,900
Grand Total	1,857	110	631	2,598	146	-	146	5,358	12,606	14,297	5,501	37,762	3,773	41,535	20,516	39,161

A P R A Y E R

Father, help my life to be
Deeply rooted, like a tree,
Which, beset by wind and rain -
Bent to earth, can stand again.

Like a limpid, crystal pool,
Far within whose depths, lie cool
Visions from the world above,
Let my life reflect Thy love.

Patient stars, unhurried, still,
Climb, each night, up Heaven's hill;
Unheard harmonies they bring.
Teach me their song - let my life sing!

--Feggy Kniskern James

