

10-23
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Zion NATIONAL PARK

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1938

Inspections by Branch of Engineering, Region IV

(Administration)

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Inspections by Branch of Engineering, Region IV (Administration)

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ARNO B. CAMMERER,
Director.

ZION NATIONAL PARK

Annual Report

1938

General

This report of the administration of Zion National Park covers the fiscal year ended June 30, 1938, the twentieth year that Zion has been a national park.

Zion National Park, located near the southwestern corner of Utah, was first reserved in 1908 as Mukuntuweap National Monument, which name was subsequently changed to Zion; and in 1919 it was established as a national park. The boundaries now include 148 square miles, all of which is in federal ownership with the exception of 520 acres of privately owned land and 307.71 acres of state school land. Zion Park is accessible to visitors by an 18-mile road system, including the famous Zion Tunnel of more than a mile in length, three trails from the valley to the rim, and a system of bridle and foot trails in the valley.

Lodge and housekeeping cabin accommodations and transportation service are provided by Utah Parks Company, which also operates similar services in Bryce Canyon National Park, Cedar Breaks National Monument, and the North Rim of Grand Canyon National Park. Two public auto camps, each supplied with running water, fuel wood, sanitary facilities and picnic tables, and one also having individual cooking fireplaces, are maintained by the Government.

Railroad connection to the park is provided by Utah Parks Company buses from Cedar City, on the Zion-North Rim of Grand Canyon-Bryce-Cedar Breaks loop tour, during the summer season, June 1 to September 30. Unscheduled transportation service between Zion and Cedar City is provided by the Company during the remainder of the year.

The lodge is open each summer from late May to September 30, and the camp center, with cafeteria in conjunction, is operated throughout the year, as is also the south entrance public campground. Roads within the park are kept open all winter.

Summary of the Season

Capitol Reef National Monument, in Wayne County, Utah, was established by Presidential Proclamation dated August 2, 1937, and placed under administration of the Zion office. A dedication service was held on September 25, at which Governor Henry H. Blood of Utah, Regional

Director F. A. Kittredge, and Superintendent Patraw of Zion were the featured speakers, and which was attended by some 2,500 persons.

The annual Easter service on April 17 was one of the highlights of the year. It was held this year at the foot of Bridge Mountain, in the south entrance area, where more room is available to accommodate the crowds. The services, consisting of a short introductory concert by the Dixie Junior College orchestra, St. George, and dramatization of the last three chapters of the Book of St. Luke, commenced at sundown, and was concluded in the early dusk. Every one who saw it was much impressed, and it is believed this service is one of the most potent ways we have for favorable publicity.

The Fox Movietone News took pictures of the pageant during the dress rehearsal on April 10 for news reel purposes; Mr. Al Brick, well-known news specialties cameraman, was in charge.

A fee of \$3,000 was received from the Metro-Goldwyn-Mayer Corporation for a permit to film portions of the photoplay "Bad Man of Brimstone" in Zion National Park.

Mr. Randall M. White of the Department's Division of Motion Pictures, cooperating with the photographers of the Ford Motor Company, was in the park in August and September making a series of educational reels of Zion, Bryce, and Cedar Breaks. The party chartered an airplane and took considerable footage of film from the air during a 5-hour flight over the areas.

Two natural color photographs of Zion and one of Bryce were included in the June 27, 1938, issue of Life, in a group of views of scenic attractions in America.

Radio station KSUB, Cedar City, operating on a frequency of 1310 KC and powered by a 100-watt transmitter, went on the air on July 3, 1937. This is the only broadcasting station in the vicinity of the park closer than Salt Lake City.

The ascent and descent of the Great White Throne on October 24-25 was made without accident by Glen Dawson, Dick Jones, Homer Fuller, Wayland Gilbert and Jo Monyer, all of California. The first recorded ascent of East Temple was made on October 26-27 by the same party.

During November, 1937, Local No. 922 of the National Federation of Federal Employees was organized at Zion and received its charter.

Personnel

The permanent administrative organization consists of a superintendent, assistant superintendent, assistant park naturalist, chief ranger, chief clerk, storekeeper-costkeeper, one clerk-stenographer, one clerk on w.a.e. basis, one foreman of laborers, a general mechanic, two permanent rangers, and one laborer. This force is supplemented

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during the summer season by four seasonal rangers and three ranger-naturalists. Construction and maintenance labor is secured from neighboring communities as needed. Technical assistants are assigned from the Regional office as needed and available.

This office administers Zion and Bryce Canyon National Parks and Cedar Breaks, Lehman Caves, Timpanogos Cave, Capitol Reef, and Zion National Monuments.

On August 18 Miss Kathryn Schram entered on duty as clerk-stenographer, filling the vacancy caused by resignation of Mrs. Elsa F. Ruesch. On September 17 Mrs. Ruesch was appointed assistant clerk, w.a.e., to give assistance at peak periods of office work each month.

On February 14 Mr. C. C. Presnall, Assistant Park Naturalist, was transferred to Washington as Assistant Chief of the Wildlife Division. The vacancy created by this transfer was filled by Mr. Myrl V. Walker, formerly at Petrified Forest National Monument, who reported for duty on April 5.

The transfer of Mr. Thomas C. Parker, Assistant Superintendent-Engineer, to a similar position at Crater Lake National Park, was effective March 1, 1938. Mr. John M. Davis, formerly Chief Ranger at Mount Rainier National Park, was transferred to fill the vacant position in Zion, reporting for duty on April 6.

The services of Mr. Frank C. Huston, Assistant Engineer assigned from the Regional Office, were terminated on March 31 in the general program for reduction of personnel for economy purposes. Assistant Engineer Hendricks, stationed at Boulder Dam Recreational Area, was assigned as engineer of these areas.

Weather Conditions

Weather conditions during the summer of 1937 were about normal, with a maximum temperature of 109 in August. The winter was very mild and pleasant, as compared to the previous severe winter. Snowfall in Zion Canyon was very light and melted as fast as it fell. Despite this mild winter, spring was exceptionally late arriving, and much fruit in the orchards outside the park was seriously injured by late frosts.

On March 3 the highest flood to come down the Virgin River in 18 years was caused by warm rains on the snow-covered watersheds. A high stage of approximately 12,000 cubic feet per second of water passed through the park as compared with the average flow of 125 second feet. Damage in the park consisted principally of one temporary bridge being carried away, a portion of the Valley Road washed out, and part of the Utah Parks Company sewage disposal farm taken away. Outside the park, roads were damaged considerably. Total precipitation for March, 1938, 5.01 inches, is the highest record for one month since 1922.

New Construction

With an allotment of \$5,576.03 for purchasing road oiling equipment and an additional \$11,981 for road surfacing, a total of approximately $2\frac{1}{2}$ miles of minor road and 6,833 sq. yds. of parking area were oil surfaced by park forces.

Emergency Conservation Work

One CCC camp (Company No. 962) has been under supervision of this office during the entire year, being located in Zion during the winter and transferred to Bryce for the summer months.

At the beginning of the year, the main camp was in Bryce Canyon Camp NP-3, with a stub camp of about 15 men in Zion. The main camp was moved to Zion NP-4 on October 1 for the winter and returned to Bryce again on May 23, 1938, leaving a stub camp at Zion for the summer to furnish warehouse, garage and office assistants, and to carry on the project of transplanted tree and shrub maintenance.

During the fall of 1937, the barracks buildings, reading and class rooms were all lined with celotex building board, and the mess-hall lined with plyboard and a new floor put in. These improvements made the camp much more comfortable and presentable, and the boys were very proud of the improved appearance. In February the camp buildings were remodeled to conform to fire protection specifications by removal of parts of buildings which were too close together, and construction of new buildings from salvaged material to replace the removed parts.

Captain C. B. Whitney, who has been in charge of Company 962 for the past three years, was transferred to Fort Douglas in November, 1937, and was replaced by Captain Harold M. Graham from Pinto Camp. Dr. Cohen resigned during the latter part of October to go East to take up private practice and was replaced by Dr. Isaac F. Clark as camp physician, transferred from Antelope Springs Camp.

Good relations between Army and Park personnel have existed throughout the year and also between the enrollees and the officers. Trips for the boys to nearby towns for dances, shows, or other recreation are furnished every two weeks; a picture show is held each week at the camp; educational classes in many different subjects were conducted throughout the year and were well patronized; and orderly conduct in the camp has been maintained at all times.

At the end of the 9th period (September 30, 1937) the LEM class of enrollee was abolished and these men, whom we had been using as sub-foremen in our camps, had to go. The loss was compensated for to some extent by the establishment of Junior Facilitating positions.

On October 29 a call was received from the Forest Service headquarters in Cedar City for 26 men to help fight forest fires in Dixie National Forest near Anderson Junction. A crew under Foreman John E. Excell left within an hour and remained until October 31, when the fire was brought under control. The fire started on October 26 and covered some 300 acres of brush country.

Main projects on the CCC program at Bryce consisted of work on the East Rim Truck Trail, which was completed to the top of the plateau, where it joins the old wagon road; stabilization of the Nevada Switchback, carried on with the assistance of a power shovel and trucks to haul away the sloped material; construction of a reptile cage at the museum; grading of the cut banks at Red Point and the East Rim Road junction; grading and gravel surfacing of the cafeteria loop road; cutting fire wood for campground and park uses; putting on a fireproof roof on the park garage; maintenance of roads and trails; maintenance and repair of stream protection dams; production of gravel for stock piles; insect control; razing Camp NP-2; and numerous other small jobs.

Approach and Feeder Highways

The Hurricane cut-off connecting Highway 91 and Utah 15 was completed during the year, the big bridge over the Virgin River at Hurricane being completed and dedicated on October 15, and oiling of the entire route being completed in November.

In September, 1937, an allotment of \$111,375 for grading, drainage and base surfacing of Section A, Zion-Bryce Approach Road, was received. The Bureau of Public Roads, under whose supervision the work will be performed, made surveys during the fall of 1937; and bids were received for grading and base surfacing on May 25, 1938. The low bidder was Reynolds-Ely Construction Company of Springville, Utah, in the amount of \$58,216, to whom contract was awarded; and at the end of the year the contractor had moved on to the job and had begun operations.

The south approach road to Zion through the small villages of Springdale and Rockville has in past years become unsightly due to construction of shacks close to the narrow right-of-way. With the cooperation of the L. D. S. Church, the State Road Commission has secured options for widening the right-of-way, and at the close of the report year has a survey party in the field making plans for a highway beautification project to be undertaken late in the coming summer.

Dry foxtail grass in large areas on the floor of the valley was considered a fire hazard, and in June it was burned from several areas, not only to reduce the fire hazard but also to destroy some of the seeds.

Only light snow removal was necessary during the winter.

Improvements

On August 30-31, 1937, Radio Engineer Hilgedick from the Regional Office, with the aid of the ranger force, installed short wave radio equipment in Zion, Bryce, Cedar Breaks, and Lehman Caves offices, to facilitate inter-park communication.

A new heating system was installed in the administration office in September, 1937, and was very much appreciated during the winter months as replacement for small kerosene heaters for the past few years. Oil burning equipment received from F.H.A. surplus stock was installed in the hot-air furnace at the Superintendent's residence during the winter.

CCC camp NP-2, constructed in the fall of 1933, was razed during the winter of 1937, and the salvaged material made available for CCC projects.

A W. P. A. project of bank sloping and construction of basket dams was in progress throughout the year.

An old private house was sold and removed by the purchaser in January. This house in the south entrance area, built before this land was added to the park in 1931, was located in a conspicuous place and was not in keeping with Park Service standards. For several years, however, it served a useful purpose because of shortage of quarters.

On April 29 an ERA allotment was set up for Zion and a project of rock quarrying and dressing commenced.

Considerable stream protection work was accomplished during the year. A small dam, which had been damaged by a previous flood, near Cable Creek, was restored by WPA and CCC forces. Two large basket dams, one of about 300 lineal feet on the west bank of the river near Utah Parks Company sewage disposal system and the other of about 275 lineal feet on the east bank of the river immediately below Wylie Creek, were constructed by ERA crews, with the exception of the starting 50 feet of the former dam which was constructed by CCC. Two masonry walls, one about 180 feet in length one mile above the Virgin River bridge, and the other of 20 feet along the Narrows Trail, were constructed from a Roads and Trails post construction allotment, the work having been made necessary by damage from the flood of March 3. Another small dam, below Cable Creek bridge, is under construction by WPA crews.

The following is a detailed summary of weather conditions by months:

Month	Mean Max.	Mean Min.	Mean	Max.	Min.	Prec.	Number of Days		
							Clear	Partly Cloudy	Cloudy
July 1937	98.16	71.22	84.69	106	62	0.75	7	14	10
August	99.52	71.29	85.40	109	65	0.15	11	13	7
Sept.	91.4	64.3	77.85	100	55	1.68	16	8	6
Oct.	79.77	50.8	65.28	87	37	0.18	21	6	4
Nov.	66.4	40.73	53.56	76	28	0.13	15	10	5
Dec.	55.5	33.3	44.4	64	21	1.64	9	8	14
Jan. 1938	54.1	31.26	42.68	65	19	1.38	17	5	9
Feb.	53.11	33.64	43.37	62	18	2.22	7	6	15
March	58.77	34.03	47.40	69	27	5.01	10	6	15
April	72.63	44.80	58.70	84	27	0.56	16	6	8
May	80.42	51.34	65.88	100	29	1.14	14	7	10
June	94.13	64.1	79.1	106	57	0.84	13	4	13
Totals	75.32	49.40	62.36	109	19	15.68	156	93	116

Travel

The total 142,592 visitors received during this report year is the greatest number received in the history of the park and is an increase of 5.2 percent over 1937 year. July 1937, was the biggest travel month, with 28,852 visitors, and Easter Sunday, April 17 was the largest single day, with 9,355 registrations, more than double the registrations for any other single day in the history of the park. Registrations from Utah led all other states, totalling 39,920; California ran a close second with 39,244.

The following is a detailed summary of travel by months, with comparison for 1937:

	1938		1937	
	<u>Autos</u>	<u>Visitors</u>	<u>Autos</u>	<u>Visitors</u>
July	8,268	28,852	7,707	26,849
August	8,331	28,390	7,871	27,088
September	5,313	16,153	5,727	17,575
October	2,399	6,426	2,502	7,056
November	884	2,635	821	2,454
December	567	1,580	450	1,342
January	571	1,692	585	1,611
February	533	1,494	370	978
March	608	1,856	1,723	6,919
April	3,611	16,508	1,652	5,167
May	3,609	11,729	4,225	14,612
June	7,494	25,277	7,400	23,870
Totals	42,188	142,592	41,033	135,521

Maintenance, Improvements, New Construction

Maintenance

On account of exhaustion of regular park maintenance funds it was necessary to perform most of the road and trail maintenance with CCC labor from October to the end of the fiscal year. Upon receipt of advice in February that the 10% reserve from the annual appropriation was to be returned, it was possible to resume maintenance with hired crews.

Regular maintenance performed throughout the year consisted of keeping road gutters and surfaces free of sloughing material and rocks from cut banks, keeping trails passable, care of administrative and residential grounds, hauling and disposing of garbage, keeping buildings supplied with wood and coal, and keeping campgrounds and campground facilities in a sanitary condition.

In May the office, museum, comfort stations and employees' residences were all kalsomined, painted, cleaned and repaired.

Utah Parks Company

Patronage at Utah Parks Company facilities continued to improve. With the reduction in price for deluxe accommodations at the lodges, this class of cabin is frequently filled to capacity.

The lodge was closed for the winter months on September 30 and re-opened on May 25, 1938, under management of Hugh Visick. Saddle horses were brought in on May 28. The cafeteria and cabin camp, as usual, operated throughout the winter, and patronage showed large increases over last winter.

Rates for the 1938 season were approved by the Secretary in January, 1938, with a slight increase in price of standard cabins at the lodge, and considerable reduction in price of deluxe cabins.

A new dormitory for male employees at the lodge was completed in February, 1938.

Ten new cabins with private bath at the Zion camp center were constructed and made available for public use in August, 1937. This class of accommodation proved to be very popular. One old standard cabin was remodeled for installation of private toilet, experimentally, but it was found to be too small for practical use.

Mr. W. P. Rogers, Superintendent of Utah Parks Company, was promoted in October to Manager of the Company. This promotion places him in full charge of all operations of the company, removing them from the dining car and hotel department of the Union Pacific Company, and reporting direct to the president.

Education

The naturalist program at Zion during the past year has consisted of museum and information service daily throughout the year and an additional daily summer schedule (May 1 to September 30) of two nature hikes and two evening lectures. Additional trips and lectures were frequently given for educational and other special groups, and a number of lectures were given to various groups and clubs outside the park area.

The total number of educational contacts for the year 1937-38 seems to show a slight decrease from the year 1936-37. This is perhaps due to several factors, one being that there has been a change in the naturalist personnel during the year and there were two months during which time no permanent naturalist was on duty at Zion National Park. The second factor contributing to this decrease was the late arrival of the ranger-naturalists for the 1938 summer season, for our force was not completed until June 20, 1938. Still a third factor has been the method of counting educational contacts, that is, educational contacts are now limited

to those actually contacted by some member of the naturalist personnel, and no estimate is made of those using the self-guiding nature trails for it has been found that many of these trails are far from self-guiding in respect to their educational value.

The figures on the educational contacts are as follows:

	1937	1938	Decrease
Educational contacts	130,814	108,342	20%
Park travel	135,398	142,804	

A fine series of movies of Zion, Bryce, and Cedar Breaks was prepared and edited, making up about 650 feet of fine color film. The title for this film is "The Four Seasons in Zion, Bryce, and Cedar Breaks", or "Around the Year in Zion, Bryce, and Cedar Breaks". Since the naturalist division does not possess a projector, it has been impossible to make any use of this film in our naturalist program.

A fairly large number of Kodachrome slides (2" x 2") were prepared during the past year, and they are now being used both at Zion Lodge and at Bryce Campfire Lecture Circle. The use of the slides is limited, however, since a majority of them are scenic views rather than views which are illustrative of some one of the program lectures. The limited time during which these slides have been used is enough to prove that they are far superior to the old type of lantern slide in accuracy, ease of operation, and especially preparation. A very careful study is now being made as regards the preparation of more of these slides, and we are attempting to avoid duplication of scenes, with emphasis on the selection of the subject so that it will be more illustrative of the lecture program.

Research has been carried on along limited lines this year, that is, geological and zoological. Dr. H. A. Gregory, with a few assistants, has practically completed his professional paper on the geology of the Zion region. A very fine little booklet on the Mammals of Zion, Bryce, and Cedar Breaks was prepared and published as Bulletin No. 2 of the Zion, Bryce Natural History Association. More books of this nature are badly needed to provide the visitor with authoritative and illustrated booklets pertaining to the natural features of this area.

The new museum cases were received and set up in the temporary museum during the past year. A temporary museum exhibit was installed and has been quite well received during the last part of the 1937-38 season, but it is far from finished due to the fact that many exhibits which were to go into this exhibit are still unprepared or are prepared in a manner which limits their installation to such an extent that they cannot be used at the present time.

Careful studies are now being made relative to the improvement of our educational contacts both as regards quality and quantity. A copy of the naturalist program commencing June 1, 1938, and also a summary of the year's educational contacts is attached.

Protection

The ranger force has consisted of a chief ranger and two permanent rangers, supplemented during the summer by four seasonal rangers. Of the six rangers, full time of 4 was occupied by checking duties, one was used as patrolman and campground manager, and one as relief and for miscellaneous work. The east checking station was operated on double shift; from 6:00 a.m. to 10:00 p.m., until September 28, then reduced to one shift daily until October 10 and during deer season, October 20-30, when it was closed for the winter. It was reopened and operated on single shift on April 7, and double shifts started again on June 13. The south checking station was operated on double shift until October 19 and then on single shift throughout the winter until April 1 when it was again placed on double shift basis.

All park boundaries were patrolled during deer season but no trespass on park lands was observed.

A State Peace Officer's training school was held in St. George beginning November 17 and once each month thereafter to the close of the report year, and was attended by park rangers. On May 27 Chief Ranger Jolley and Ranger Fred C. Fagergren were initiated into the Utah Peace Officers' Association.

Fire drills were held monthly, in which all park and CCC personnel participated. A completely equipped fire truck was ordered during June for Zion Park but had not arrived at the close of the year.

On October 19 a gasoline stove caught fire from leaking gasoline in cabin No. 23 occupied by Storekeeper-Costkeeper Foley. Fire extinguishers failed to work, one being clogged and the other empty. Mrs. Foley put out the fire before damage was done, by throwing on a bucket of sand. The gasoline stove was removed and replaced by a coal range.

On November 16 the officers' quarters in the abandoned CCC camp NP-2, which was being remodeled to serve as a temporary community house, was demolished by fire, which apparently was started by a can of gasoline being ignited by a blowtorch.

Chief Ranger Jolley, Ranger Cope from Bryce, and Foreman Irwin of

the CCC camp attended the fire training school at Grand Canyon National Park held May 10 to 13.

Accidents

On August 22, 1937, Mr. Clair Hirschi of Rockville was killed when his motorcycle went over the bank near the Virgin River bridge at park headquarters.

On October 3 a collision between Fred Sheske, Utah Parks Company plumber, and Paul Gates, high school teacher at Hurricane, resulted in Mrs. Rhoda Prince of Hurricane, a passenger in the Gates car, being so seriously injured that she died later.

On December 28 Ray Tanner, CCC enrollee, suffered a compound fracture of the left leg from a rock thrown by a dynamite blast at the Nevada Switchback. He died on February 8 from infection in the wound.

Forestry and Wildlife

The deer in Zion are in very poor flesh and present a sorry spectacle. Professional wildlife visitors to the park this summer have been unfavorably impressed by the unbalanced deer forage situation here. Plans are being made for a program of reduction in the valley deer population in cooperation with the State Fish and Game Commission.

A herd of five mountain sheep has been seen several times during the year by park officials and visitors on the East Rim Road between the two tunnels. An odorless skunk was found dead on the highway in the upper canyon in August and brought in for study. A gray fox was seen near the superintendent's residence on September 25, about 1:00 p.m. So far as is known, this is the first time a fox has been seen in the canyon during daylight. A cougar was seen crossing the highway near the short tunnel on February 26.

Spraying operations for control of tent caterpillars were carried on in the spring of 1938 as a CCC project.

Fenced areas where domestic stock grazing has been excluded have recovered to such an extent that they are almost back to normal.

Exceptionally mild weather provided the unusual spectacle of green trees and blooming flowers on New Years' eve. A half dozen cottonwoods, several willows, and four boxelders were wearing their second crop of green leaves for the summer, and a field of yellow daisies was in bloom for the second time.

A grazing survey of Zion National Monument was under preparation by Homer W. Marion, Junior Assistant to Technician. Field work was completed by the middle of August and the notes written up immediately thereafter.

Official Visits and Inspections

- July 12-19 Associate Architect Carpenter, San Francisco.
- 21-23 E. C. W. Inspector Thede and Forestry Technician Carlson.
- 14 Dr. H. E. Gregory, U.S.G.S., arrived to continue his geological study, remaining until November 6.
- 19-20 Brigadier General Walter C. Sweeney, Commanding, Fort Douglas, C.C.C.
- Aug. 17 District Engineer B. J. Finch, Bureau of Public Roads, inspected location of Section A, Zion-Bryce approach road.
- 22 Congressmen Fitzpatrick and O'Neal, members of the Interior Department Sub-committee, House Appropriations Committee, came to Zion from Grand Canyon on the 24th, where they were joined by Congressman Scruggs.
- Sept. 3-6 Supt. James R. Lassiter, Shenandoah National Park, accompanied by Mr. Wilson Mangham, President of the Virginia Sky-Line Co.
- 23-28 Regional Director F. A. Kittredge.
- 30 Chief Engineer and Mrs. O. G. Taylor, Supt. and Mrs. Tillotson of Grand Canyon, and Regional Engineer Jack Deal of Omaha.
- 27 Under Secretary of the Interior and Mrs. West, accompanied by Assistant Superintendent Lloyd of Grand Canyon.
- 16-18 Assistant Director of CCC Charles H. Taylor, Washington, D. C., accompanied by Corps Area Educational Adviser Weidman, San Francisco, and District Educational Adviser Field, Ft. Douglas.
- Oct. 7-9 Director W. C. Mandenhall, Geologist Levi F. Noble, U. S. G.S., accompanied by Mrs. Noble
Deputy Chief L. I. Newes, Bureau of Public Roads, and
Commissioner Preston Peterson, Utah State Road Commission.
- Dec. 6-7 Inspector Thede and Forestry Technician Carlson, CCC.
- Jan. 25 J. C. Reddoch, Office of the Director of CCC, Washington, D.C., inspected our camp.
- March 7 District Engineer A. B. Purton, U.S.G.S., Salt Lake City
- 19 Dr. Donald DeLeon stopped in Zion on his way to Bryce to finish work of insect control.
- Apr. 15 Resident Landscape Architect Stephenson returned to Zion for the summer.
- 13 Associate Field Coordinator Edward Ballard, to discuss various problems relating to winter sports, mountain climbing and general use of trails.
- 21-24 Regional Engineer Waterhouse, accompanied by Mrs. Waterhouse.
- 22-24 Park Naturalist and Mrs. Brockman, Mt. Rainier National Park
- 26 Wm. Mussetter, U.S. Coast & Geodetic Survey, Washington, advised that the Coast Guard is planning to map southern

Utah by aerial photography, in cooperation with the
Soil Conservation Department

April 30 Assistant Chief of the Museum Division Yeager and Mrs.
Yeager

May 7 Regional Architect Davidson
25-27 Charles R. Brill, Chief of Mails and Files Division,
Washington, D. C.
27 Deputy Chief Architect Carpenter

June 5 Assistant Director H. C. Bryant, accompanied by Park
Naturalist Rose from Boulder Dam.
Dr. H. E. Gregory returned about the middle of June
to continue his geological studies

Receipts and Expenditures

Receipts:

Auto license fees.	\$37,438.00	
Sale of Government property.	223.03	
Other.	5.00	\$37,666.03

Expenditures:

Administration, protection and maintenance	41,457.12	
Equipment.	1,322.95	42,780.07
Forest protection and fire prevention		
Service.	47.49	
Equipment.	2,817.63	2,865.12
Roads and Trails		
Equipment.	1,415.88	
Post construction.	6,807.57	
Oiling minor roads.	9,695.83	
Tunnel lining.	11,492.02	
River revetment.	2,126.52	
Road equipment.	69.80	31,607.42

Superintendent

THE
NATURALIST LECTURE PROGRAM
at Zion Lodge
Every Evening at Eight Thirty

Day	Subject	Title of Lecture
Sunday	General	The naturalist and educational program of the NPS Why I would like to be a naturalist
Monday	Geology	How was Zion Canyon formed What can a geologist see in Zion
Tuesday	Geology	Rock formations of Southern Utah Stories fossils have to tell
Wednesday	Zoology	What kind of animals live in Zion Things animals do or don't "Believe it or not"
Thursday	Botany	Trees, flowers, and weeds "Cones, posies, and seeds"
Friday	Archaeology	Prehistoric man of Zion Homes, clothes and woes
Saturday	History	Pioneers' trails and tales "Lost and found" one Zion Canyon

THE CAMPFIRE TALKS
at
CAMPFIRE LECTURE CIRCLE
Every Evening at 8:30 p.m.

Informal campfire talks on "How and What to see in Zion or "Along Zion Roads and Trails" which are based on the Lodge lecture program, are presented by the naturalists who have spent some little time on these roads and trails.

SUMMARY OF EDUCATIONAL ACTIVITIES
ZION NATIONAL PARK
July 1, 1937 to June 30, 1938

Month	Employees Per. Temp.	Museum	Trial	Caveau	Lodge	Campfire	Outside Park	Total Contacts	Total Visitors	Percent Contacted
July	$\frac{1}{3}$	13,424	4,446		6,545	2,035	260	27,633	28,668	96%
Aug.	$\frac{1}{3}$	10,413	4,610		6,043	1,782	180	27,571	28,390	97%
Sept.	1	5,811	2,174		2,912	378		12,478	16,133	77%
Oct.	1	1,985					260	2,245	6,426	34%
Nov.	1	873					180	1,053	2,655	39%
Dec.	1	454					285	729	1,580	40%
Jan.	1	443					80	523	1,692	30%
Feb.	0	244						344	1,494	23%
March	0	443					400	443	1,856	23%
April	1	3,659					200	3,959	16,500	23%
May	1	4,100	2,500 est.		335	211	200	7,832	11,729	66%
June	$\frac{1}{3}$	9,078	3,145		4,880	1,222	300	19,625	25,277	77%
		49,927	16,875		20,712	5,628	1,705	104,450	142,604	76%

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