

May 1934

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10-23  
(May 1929)

6-7410

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

-----Zion----- NATIONAL PARK

FILE NO.

MONTHLY REPORT FOR MAY, 1934

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ARNO B. CAMMERER,  
*Director.*

May 1934

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

ZION AND BRYCE CANYON NATIONAL PARKS

UTAH

OFFICE OF THE SUPERINTENDENT

P. O. ADDRESS:

SPRINGDALE, UTAH

June 8, 1934

The Director  
National Park Service  
Washington D. C.

Dear Mr. Director:

The following is my report of conditions and activities in Zion and Bryce Canyon National Parks for the month of May, 1934:

000 General

010 Introductory

The month of May saw the beginning of the real summer season, with the opening of lodges at both Zion and Bryce Canyon National Parks, and at Cedar Breaks National Monument. Travel continued to gain, but not nearly at the same rate which the parks had previously enjoyed.

Owing to an early season and the heavy travel, it was possible to start lecture and guide service in both Zion and Bryce earlier than last year. By the end of the month all temporary naturalists were on duty and nearly a full program of naturalist activities was being conducted in each park. Contacts have not been as numerous as might be expected, due to a pronounced speeding up of travel, relatively few visitors remaining in the parks for more than a few hours.

Contract has been awarded by Utah Parks Company for the initial construction of buildings for a cabin camp in Zion National Park. This type of facility has been much needed in the past and we are all pleased that in the near future it will be provided. It is the intention of the company to operate the Zion Camp throughout the year, which will forge the last link in the chain to make Zion National Park a real all-year park.

020 General Weather Conditions

Zion

The weather this month has been pleasant, but extremely dry. The thermometer registered as follows: maximum, 97 on the 11th; minimum, 42 on 3rd; mean, 73.71; precipitation for the month totalled .05 inch. The long dry spell has caused the approach roads to get very rough and dusty. Every visitor to the park has a complaint to make on road conditions. A rain storm west of the park caused a flood down Coal Pitts Wash which washed away 250 feet of the park boundary fence. A very light rain fell in Zion on the 1st and 2nd. The river has been getting lower

every day. At the beginning of the month the river gauge registered 100 and at the end of the month 70 inches. Blue Springs, where we had our CCC camp last year, is nearly dry; there is no water running out over the meadow, which has burned brown. Orderville Gulch is dry for four miles above the trail crossing. Locusts and grasshoppers are taking advantage of the drought and are doing a lot of damage to trees and grass on the mountains.

Bryce. The general temperatures for the month are registered as follows: maximum, 77 on 11th; minimum, 26 on 13th; mean, 52.17; total precipitation was 2.76 inches. Most of the month was dry and dusty, with many complaints from the tourists on the dusty conditions. It began raining on the morning of the 23th and for three days we had hail and rain. On the morning of the 30th the hail was more than an inch deep. Monday afternoon, May 28, about 4:00 o'clock, a terrific hail and rain storm passed over the mouths of Bryce, Campbell, Tropic, and Cope Canyons, causing the largest flood ever known in that country since the settlement of the Tropic region. Considerable damage was done to the park trails, especially Navajo and Comanche Trails, and some damage occurred along the road where the loose gravel was washed off. Before the storm, the trees along the highway were covered with dust, but at the close of the month everything was fresh and beautiful. Plants are in full leaf and bloom, and the general appearance of the park is very attractive. The water supply will no doubt increase now, and I feel sure that the supply will be sufficient for the season.

100 Administrative

120 Park Inspections

121 By Superintendent. On the morning of May 1 I arrived at the South Rim of Grand Canyon, in company with Superintendent Tomlinson and Mr. Sceva of Mount Rainier National Park, and Messrs. Hansen and Underwood of Utah Parks Company, to attend the special conference of western park superintendents and park operators. After conclusion of the conference I returned to Zion, arriving here on the evening of the 6th. Messrs. Vint and Langley came in the following day and with Mr. Hansen, an inspection was made of the proposed cabin camp development at Zion. On the 11th Sanitary Engineer Hommon, accompanied by Sanitary Inspector Hillard Hall of Grand Canyon, arrived at Zion. We inspected the water and sewer systems here and then went to Bryce where Mr. Hall, Mr. Hommon and I made an inspection of the sewage disposal system and of the area selected for extension of the public campground. Mr. Hommon and I then drove via Cedar Breaks to Cedar City where Mr. Hommon caught the train on his return to San Francisco. Mr. Hall returned to Grand Canyon direct from Bryce. On the 16th I went to Kanab to select experienced men for CCC camp. On the 18th on invitation I attended the luncheon of the Rotary Club at St. George, and subsequently the meeting

of the Board of Directors of the Chamber of Commerce for presenting my views on the needs for improvement of approach roads to the southern Utah parks. On the 23rd I drove Mr. and Mrs. Brill to Cedar Breaks and Bryce, and to the North Rim of the Grand Canyon on the 24th. Mr. and Mrs. Brill crossed over to the South Rim by airplane and I returned to Zion on the 25th. With the chief ranger a fire inspection was made of the Utah Parks Company facilities in Zion on the 28th.

125 By National Park Service Officers. Superintendent and Mrs. White of Sequoia were brief visitors at Zion on the 5th en route from the Grand Canyon conference to Sequoia.

Junior Landscape Architect H. B. Stephenson arrived on the 16th, relieving Mr. Norgard, who was transferred to Glacier National Park.

Messrs. Vint and Langley visited Zion on the 7th. After hurried inspections, Mr. Vint departed for other parks, and Mr. Langley went to Bryce, where he stayed until the 10th. He returned to Zion from Bryce, where he stayed until the 15th, when he left for Grand Canyon National Park.

Sanitary Engineer Hommon and Sanitary Inspector Hall of Grand Canyon, as mentioned in paragraph 121 above.

Assistant Engineer Boles, detailed to these parks by Mr. Kittredge for the summer season, arrived at Zion on the 25th and was assigned to Bryce in charge of public works planning and construction and of engineering features involved in the summer season's BCW program.

Charles R. Brill, Chief of the Mails and Files Division of the Washington Office, accompanied by his wife, arrived at Zion on the 22nd. Mr. Brill inspected our files and gave us advice on the latest procedure of filing and handling of correspondence and made an inspection of park developments. We went to Cedar Breaks and Bryce on the 23rd, spending the night at Bryce Canyon Lodge, which was prepared for informal accommodations only at that time. An impromptu entertainment program was put on for us by the lodge employees around the fireplace in the lobby. Mr. Brill joined in the program with two trumpet selections. Ranger-Naturalist Croft conducted Mr. and Mrs. Brill on a short hike on the canyon trails the following morning. We went to the North Rim of the Grand Canyon that afternoon and on the following morning (25th) they hopped over to the South Rim by plane.

Forestry Inspector Flair completed his field work for a vegetative type cover map of Zion, and transferred to Bryce Canyon National Park on May 21.

Mr. Zeke Johnson, Custodian of the Natural Bridges National Monument, visited Zion on the 3rd.

125 By Other Governmental Officers. Miss A. P. Hopper, Assistant Manager of the 13th Civil Service District, paid a brief visit to Zion office on the 23rd. Miss Hopper was on a motor vacation trip.

Mr. R. R. Mitchell of the Ogden district office of B.P.R. inspected Zion road surfacing project on the 23rd. Mr. A. C. Spann continued as resident engineer on this surfacing job. Mr. F. LeRoy Davis continued as resident engineer for the Bureau at Bryce.

Other officials visiting Zion during May included Dr. E. A. Farrow, Superintendent of Paiute Indian Agency, Cedar City; General P. Whitworth, District Commander of C.C.C., Fort Douglas, Utah; Miss M. J. Jarvis, Agent for the government girl's school at Tuba City, Arizona; and Mr. G. M. Paulson, District Engineer for the Federal Emergency Relief Administration, Salt Lake City.

#### 140 Labor Situation

That the labor situation has been considerably better in southern Utah, or at least in Kane County, is evidenced by the fact that I was unable to secure the three local experienced men apportioned to Kane County for our C.C.C. camp. Each of the several men I interviewed and who had applied, refused to accept enrollment as they had other jobs offered or in the offing paying \$4 a day or better. The state board transferred the apportionment to Garfield County. It was particularly difficult to obtain the cooks that we needed.

#### 170 Plans, Maps and Surveys

No surveys were made in Zion during the month other than those necessary to carry on construction.

About three miles of Under-Rim Fire Trail at Bryce has been located and some topographic and location surveys made of the campground area. Several topographic sheets of work done at Zion during the past few months have been finished and forwarded to Field Headquarters. The plan for water storage reservoir for Lehman Caves National Monument, prepared by the Chief Engineer's office, has been adopted for the east entrance water system and construction will be commenced at once.

#### 180 Publicity

The regrettable lack of printed information circulars has been partially remedied by issuing mimeographed information sheets to each visiting car at both parks. These sheets are similar to the ones used last year - a map on one side and "what to do" information on the other. The March-April issue of Nature Notes was mimeographed and mailed to 150 addresses. It was a special number devoted to mammal life of Zion.

## 200 Maintenance, Improvements and New Construction

### 210 Maintenance

Zion. The gutters along the Valley Road and Section A of the East Rim Road were completely cleared of the accumulation of dirt and rock from cut banks. The temporary barricade at the Nevada Switchback was broken by a large rock and several truck loads of rock rolled into the highway. No serious damage was done, and the barricade was rebuilt and extended farther up the slope. Masonry steps were installed on the Hidden Canyon Trail to replace deteriorated wooden steps. Loose and broken hand railing was repaired, and the trail otherwise placed in condition. The pavement of the Narrows footpath was patched where required, and the trail cleaned of debris. Minor improvement was made of the trail out to the point of Angel's Landing in a place where the trail was obscure. The West Rim Trail was gone over from Scout Lookout to the rim. Upon evacuation of the Zion C.C.C. camp, a camp caretaker was appointed for protection of buildings; his duties also include the operation of the irrigation system for watering of transplanted trees and shrubbery. The rapid growth of these trees is surprising.

Following a fire inspection of park buildings, considerable repair work was undertaken and material has been ordered for this purpose. The kitchen and first-floor bathroom of the superintendent's residence has been repainted, and the linoleum floor covering in the bathroom replaced with new.

A public campground caretaker was employed continuously, cleaning the grounds and disposing of refuse. The telephone lines required considerable maintenance on account of windy weather. Tents were moved and set up for seasonal employees, one at the east entrance checking station and two at the Wylie Way. The sewer line from the public campground comfort stations became clogged and had to be cleaned out and six joints of pipe replaced.

Bryce. The spring maintenance of the trails was completed early in the month. The severe storm of the 28th damaged them considerably and they had to be gone over again. Fire extinguishers were checked and re-filled. A general spring clean-up was made of buildings and grounds. A campground caretaker was employed beginning the 17th.

### 220 Improvements

Utah Parks Company placed lawn grass sod, hauled from Kanarraville, on the terrace slope to the new Zion Lodge parking area.

230 New Construction

Zion.

Minor Projects

FP-16-17-18, Employees Residences and Comfort Station. A contract for the construction of one four-room residence, and another contract for construction of one five-room residence and one comfort station, have been forwarded to Washington for approval.

FP-20, Sewer-Water System. A tram is being constructed to carry the tank material up the steep hillside to site of water storage tanks.

FP-24, Electric System, South Entrance. Bill of material was prepared for submitting to bidders.

FP-169, Stream Protection. A force of men is employed finishing about 500 feet of coping rock on basket bank revetment at the Temple of Sinawava.

FP-170, South Entrance Campground Roads. The grading of utility area road in Oak Creek has been completed with exception of some cleanup work. Materials have been purchased and delivered for two bridges, and the existing bridge to the residential area has been raised and repaired for temporary use. Residential road has been completed with the exception of a small amount of cleanup work. Under the direction of the Bureau of Public Roads engineer, fifteen hundred tons of base gravel were put on these roads by the contractor on Zion highways, the cost being paid from FP-170 funds.

FP-171, West Rim Trail. Surfacing operations from foot of the trail at the river ford to the mouth of Refrigerator Canyon were begun on the 21st, and 1,600 feet have been completed. A five foot surface averaging four inches in thickness is being laid of bitumuls applied to local trail material, and excellent results are expected.

Bryce.

FP-156, Post Construction of Roads. Work consisted of grading and construction of log steps on lookout at Natural Bridge.

FP-8, Employees Cabins. Material has been purchased and bids called for on the labor.

FP-9-11, Extension to Office Building, and Comfort Station. Part of the required materials have been purchased.

FP-161, Lodge Road Widening. Grading, sloping and gravelling of road and parking area, and placing of log barriers on borders, constituted the work done on this project. The work involved 400 cubic yards of excavation and 110 cubic yards of gravel surfacing.

FP-162, Footpath, Lodge to Rim. Work done this month consisted of constructing concrete steps with stone curbing and ramps on the path in front of Bryce Lodge.

#### Major Road Projects

##### Zion.

"NR"1-A1,3,4 & 4B, Oiling, East Rim Road and South Entrance Road. All work on the project was completed on May 31 except final cleanup and dressing of shoulders and ditch lines. The contractor used only 89% of his time. A total of 161 and an average of 56 men were employed by the contractor during May, with a payroll of \$6,617.42 for the month. The total probable cost of the project is \$144,500. A saving of about \$4,500 in the construction allotment and \$1,000 in the engineering allotment is estimated, which will be transferred to the Bryce surfacing project.

##### Bryce.

"NR"1B2-D, Grading and Base Surfacing, Rim Road. Under excellent weather conditions, the contractor continued to make rapid progress, and has the clearing nearly completed to the end of the project and the rough grading done about to station 1000. The grading and gravel surfacing of Section D (North Entrance Road) was completed last fall. The contractor has been fortunate to encounter easy excavation throughout the project.

"NR"1A-B1-D, Oil Surfacing. The contractor started moving in on the job on May 11, setting up his gravel plant and producing and stockpiling material for the plant mix, and placing additional subgrade and shoulder reinforcing material where needed. Receipt of the oil mix plant was delayed until the close of the month.

#### Emergency Conservation Work

The main body of C.C.C. company No. 962 moved from Zion National Park Camp NP-2 to Bryce Canyon National Park Camp No. NP-3 on May 11. The Bryce camp will be tent except for frame buildings for the messhall, the recreation hall, and the latrines and showers. Permission was obtained from Utah Parks Company for use of their water system from U.F. springs in exchange for repairing the line. A stub camp was moved up late in April, and workmen went completely over the line, re-caulking joints and welding a few split pipes. An 8,000-gallon daily supply has been obtained. Fire protection cleanup was the first project started, pending preparation and completion of construction plans.

The crew left at the Zion camp remained until the 28th to clean up projects here.

#### 240 Improvement of Approaches to Park

Numerous complaints continued to be received at our south entrance checking station on the deplorable condition of the detours around the LaVerkin-Dalton Wash construction work and the washboard condition of the road from Dalton Wash to the park boundary. Near the close of the month the State Road Commission had the detours improved and the gravel section bladed and dust oiled, so that the entire road, including the detours, from LaVerkin Junction to the park boundary is now in good condition. Undoubtedly the poor condition of this road was responsible for reducing the number of visitors to the park, as we were constantly hearing about tourists having turned around before reaching the park.

#### 300 Activities of Other Agencies in the Parks

##### 310 Public Service Contractors

Zion Lodge was open for informal accommodations on the 11th and was formally opened on the usual date, May 15. Bryce Canyon Lodge and the cabin camp were prepared to receive guests on the 22nd. Saddle horses were brought to the parks on the 16th. The lodges have enjoyed excellent business, comparatively speaking. To date they have accommodated twice as many visitors as they did for the same period last year.

Contract has been awarded to C.I. and R. Anderson for the construction of a cafeteria, comfort station, shower building, laundry, filling station, and twelve standard housekeeping cabins, and the moving and remodeling of eight standard lodge cabins for the development of a cabin camp at Zion National Park, and also for the construction of eight new standard house-keeping cabins at the Bryce Camp.

#### 400 Flora, Fauna, and Natural Phenomena

##### 410 Ranger-Naturalist and Guide Service

Zion. During the first half of the month lectures and guided trips were given whenever visitors were numerous enough, but from the 15th to 31st regular daily programs of two nature walks, one evening lecture, and at least one museum lecture, were scheduled. Many school groups visited the park during May, the following being given special attention by the naturalists:

May 3 - University of Utah geology class of 14 under Professor Pack, with Zeke Johnson as cook.

May 12 - Orderville (Utah) High School, 35 members of senior class.

May 18 - Virgin Valley High School, Bunkerville, Nevada, 25 members of the senior class.

May 24 - An M.I.A. group of 20 from Richfield, Utah, also 21 members of the senior class of Milford (Utah) High School.

May 31 - Approximately 125 L.D.S. church members from the Zion Park Stake were given a special talk by the park naturalist, and later were conducted over the new Arch Trail by Ranger-Naturalist Reid.

Temporary ranger-naturalists reported for duty as follows: J. C. Anderson, May 18; H. L. Reid, May 25.

Bryce. On the 22nd Ranger-Naturalist Croft was assigned to duty at Bryce, pending the opening of Cedar Breaks in June. During the remainder of the month he maintained a program of one guided trip and at least one lecture per day, in spite of severe storms. On the 23rd special attention was given to the two school groups listed under date of May 24 at Zion, and on the same day a special talk was given to the CCC camp which had just been moved from Zion to Bryce.

#### 420 Museum Service

Zion museum was kept open daily from 8:00 A.M. to 5:00 P.M. All of the reptile cages were filled with live specimens during the month, 12 species being represented. An unpainted cast of the Zion relief map was received from Berkeley on the 14th. It is now mounted for use and attracts more attention than any other exhibit, in spite of being yet unpainted.

Bryce museum was open daily from the 22nd to the 31st inclusive, except when hiking trips were being conducted. Two new exhibits were installed this month: a diagrammatic geological column, and the first half of the tree exhibit begun last fall. Also the unsightly exhibit tables formerly in use were replaced by attractive tables made from large yellow pines.

A summary of ranger-naturalist and museum activities is given on Form A attached.

#### 430 Archaeology

Final report of the Arches CWA project was submitted this month, but the Parunuweap report has been delayed by reason of the large amount of material to be included in it.

#### 455 Flora

Rapid fading of spring flowers has somewhat hindered the collection of early blooming species now being done by Mrs. Patraw. However, with the assistance of Forest Inspector Plair and the park naturalist, she has thus far added 30 new species to the Zion herbarium.

## 460 Birds

Summer visitants came into Zion in large numbers this month, arriving at the rate of one species per day during the first two weeks. Several new species were recorded for the park, notably Virginia Warblers and Band-Tailed Pigeons, the latter being a very unusual record for the entire state of Utah. Grouse nests were discovered in the Narrows.

## 470 Animals

Zion. Animals in the park are about as usual. Buck deer antlers are from 6 to 18 inches long and in velvet. It is a daily occurrence to see large numbers of deer grazing on the lawn near the lodge during the evening. Two rockchucks or marmots are residing near the lodge this summer.

Stock have been bothering some in the park. As springs are drying up on the mountains, a few springs in the park are about the only water available for range stock. Thirty-two head of cattle were driven out of Coal Pitts Wash and eleven head from Observation Point during the month. Sheep have not bothered the park, although some of the sheepmen are hauling water several miles for their herds.

Bryce. The deer are not so tame as last year, due to the fact that the tame ones were killed last fall. We can never have a deer spectacle here until game laws are enforced in the surrounding forest. Woodchucks are unusually plentiful this month.

The cattle and horses have given us considerable trouble the past two weeks, but with the completion of the drift fence this difficulty will be overcome.

## 500 Use of Park Facilities by the Public

### 510 Increase in Travel

Zion. Travel reports shown an increase over last year of 64.66 per cent. The census of campers on the auto campground is slightly under that of last year for the month, 1036 as compared with 1232 last year. Stages brought in eight people, compared with 117 last year. Arkansas is the only state not registered on the travel report since the 1934 travel season began. During the month 1816 cars carrying 5399 people entered the park. Road construction west of the park has been the cause of much complaint, previous to the recent oiling account of dust, and subsequently on account of the wet oil.

Bryce. There were 4344 visitors to the park, and 577 people stayed on the campground during the month. This is an increase of 102.7 per cent over May last year. Ruby's Inn has been doing a good business all month. He has no system of keeping record of the guests staying at his place.

## 530 Visitors

May 4 - Temporary Ranger-Naturalist Russell Grater and wife, of Grand Canyon, arrived for a four day visit. Mr. Grater made an intensive study of both Zion and Bryce, in order to better perform his work at Grand Canyon.

May 7 - Mrs. Susan Delano McKelvey spent the day collecting botanical material for the Arnold Arboretum of Harvard University.

May 12 - Mr. and Mrs. W. L. Graves of New York City spent two days taking kodacolor movies of the valley. Mr. Graves is active in game conservation, and showed great interest in the Park Service methods of handling the problem.

May 17 - Dr. H. A. Kelly, authority on gynecology, and the last survivor of the "Big Four" who founded Johns Hopkins, visited briefly while pursuing his hobby of herpetology across the Southwest. The park naturalist aided him in identifying several specimens.

May 23 - H. E. Moris, of the Montana Experiment Station, Bozeman, spent a day botanizing in Zion.

May 26 - Mr. and Mrs. Wm. D. Breese, Portage, Wisconsin, expressed themselves as delighted with the parks, after a three day stay. Mrs. Breese is known to the reading public as Zona Gale.

May 30 - Messrs. Sargeant and Peabody of Pasadena arrived for several days of color photography in both Zion and Bryce.

May 31 - Rev. and Mrs. Walworth Tyng and family of Los Angeles, Cal., were given special attention by the naturalists. Rev. Tyng is a relative of Stephen Tyng Mather.

## 600 Protection

### 610 Police Protection

Zion. Rangers Russell and Schiefer have been checking in the south entrance checking station during the month, and Ranger Russell Mahan at the east entrance. Ranger Fagergren has been checking in the Bryce station. The Bryce checking station was kept open from 8:00 A.M. to 5:00 P.M.; the Zion east entrance station from 8:00 A.M. to 5:00 P.M., and the Zion south station for thirteen hours each day.

Mr. D. G. Stockton of Marion, Ohio, checked in the park on the 14th and camped on the public campground. The campground caretaker missed a new garbage can and later saw it in a trailer belonging to this party. He asked them about it and they denied having it. He notified the assistant superintendent, who sent Ranger Schiefer to investigate. He found the can, which they had been using for a wash tub.

Lieutenant Frake of C.C.C. Company No. 962, Bryce Canyon National Park, reported that Mr. Bowman of Kanab, who drives a gasoline truck, crowded him off the highway east of the short tunnel on a sharp curve. Lieutenant Frake stated that Mr. Bowman was driving on the wrong side of the road. Mr. Bowman when questioned said that he was not on the wrong side of the road and was driving slow. He had three witnesses with him who were ready to swear with him. Mr. Frake was asked to prefer charges against Bowman so that some action could be taken, but he would not do it, so the case was dropped.

L. J. Darling was stopped and cautioned about speeding for the second time. Mr. Letham of Washington, Utah, was parked for speeding. Mr. Whitehead, who operates moving picture shows in the county, has been cautioned several times about speeding and warned that if caught again he would not be permitted to drive in the park without a written order from the Superintendent.

Bryce. During the time the road contractor's trucks were operating a close check was kept on them. Five cars were parked for speeding, each for one hour. For three nights someone opened a water valve on the C.C.C. water line. Cattle were grazing there and it is supposed that the valve was opened to water stock. A watchman was stationed there for part of one night but no one was observed and since then the valve has not been opened. Two tree carrying hooks and a crowbar were taken from the road near the C.C.C. camp by an unknown party. The hooks were recovered but the bar has not been found.

A dance was given in the C.C.C. camp on the 25th. A large crowd attended, and a good time was had by all. The dance was well managed.

The following is taken from Ranger Cope's report of protection activities:

"I made a horseback trip through Cambell, Cope and Tropic Canyons. In Tropic Canyon I found where someone had turned a park sign half way around. I repaired it. The large fire sign at the mouth of Campbell Canyon has been completely destroyed by stones thrown by someone. I think I have a clue on that. I also found fifteen head of cattle in this canyon which belonged to different parties in Tropic. At the time I located them it was late and storming, but I will dispose of the matter at once. I erased the names from the lookout towers except a few that I think I can locate. Three garbage cans have been stolen from the parking areas and a keg is missing from the checking station. C.C.C. boys reported that two loads of wood had been stolen. The burning on the right of way has been done at night while there was no wind. The boys from the C.C.C. camp began to visit the auto camp in order to see all the visiting girls. They were reported to the camp officers, and since then they have not been around. I have kept the observation towers clean and papers, etc., picked up around the parking areas."

A copy of the order issued to govern the conduct of enrolled men in and around the park's public facilities is attached.

#### 620 Fire Protection

A fire inspection was made of the Utah Parks Company's lodge and cabin area and utility area on the 29th by the superintendent and chief ranger.

#### 630 Accidents

On May 25, about 4:00 P.M., while Mr. W. W. Clyde was making an inspection of his contract for surfacing the Zion-Mt. Carmel Highway and was driving east on the wrong side of the road about one-half mile east of the short tunnel, he collided with a car driven by Mr. William Masters, 33 Morris Street, Auburn, New York. Mr. Clyde admitted that he was driving in the center of the highway at a speed of fifteen miles per hour and was looking at oil in a borrow pit. The Masters were coming into the park from the east and driving at a speed of fifteen miles per hour. The accident happened on a sharp curve. Ranger Mahan, who investigated the accident, found one car in the ditch and the tracks of the other on the inside of the road. Mr. Clyde has property insurance with the Columbia Casualty Company and he called the company from Springdale and reported the accident. Mr. Clyde agreed to stand all expenses, both the damage to the Masters' car and doctor bill for Mrs. Masters, who had an injured arm. Mr. Clyde was driving a Chevrolet coupe on which the front axle was bent, the front fender and front wheel bent out of line, and a hubcap gone. The Masters' Chevrolet coupe had the left running board taken off, front fender on the left side crumpled and the top damaged where it leaned against the bank.

Mrs. E. H. Zimmer and her daughter Elizabeth met with a serious accident purely through carelessness. Miss Zimmer was standing on the left side of the car and driving through the window, and her mother was standing on the other side of the car when the automobile got out of control of the driver and started toward the river. Miss Zimmer tried to turn it back toward the upper side of the road and her hand slipped off the wheel. She fell out into the road free of the wheels of the car, but her mother fell under the car and the back wheel passed over her legs and back. Her leg was broken in three places and her back injured. They were helped into the car and taken to the C.C.C. camp for medical aid, but the doctor was not there, so Dr. McIntire of Hurricane was called. The women were taken to the chief ranger's house where first aid was given and Mrs. Zimmer put to bed. The doctor arrived in 45 minutes and put her leg in splints, taped her back and then took her to the Iron County Hospital where she was X-rayed and her leg put in a cast. The Zimmers were on their way to their home in Denver, Colorado, from a visit in California.

Bryce. One of the C.C.C. trucks driven by Ernest Urie on May 29 at 9:30 A.M. going west between the lodge and the camp, skidded off the road into rough ground and went into a wash. The truck was loaded with boys and most of them were thrown out, slightly injuring six of them as follows:

Mitchell Katter, sprained knee; Frank Holland, cuts and bruises; Frank Gunderson, sprained left ankle; Arvil Hansen, minor bruises on leg; Jack Roberts, bruised left foot; Melvin McMaster, two small wounds made by a saw on the left knee.

900 Miscellaneous

Zion. Insects have been much worse this season than ever before on account of the early season and the dry weather. They were worst around the Lodge, Wylie Camp and in the Temple of Sinawava. Caterpillars caused the most damage to the trees. We sprayed the ash trees, part of the cottonwoods and boxelders this month for the third time this spring. Many of the ash trees are dead, and some are just beginning to leaf out. We used 3,500 gallons of spraying material this month. With the equipment we had we could not get to all the trees that were infected. Grasshoppers, locusts and caterpillars are doing a lot of damage to the trees and shrubbery on the rims, especially on the east rim. Apparently every insect that can eat green leaves is out doing its bit this summer. In Farunuweap Canyon the cottonwood trees are damaged the most, while in Zion Canyon the ash are the most damaged.

Bryce. The flood that passed through Tropic on the 23th did considerable damage to crops and gardens. The hail storm passed just above town. At the mouth of Campbell's Canyon the hail was two and one-half inches deep when the storm was over. The irrigating ditches were badly damaged and most of the flumes were washed away. The bridge on the state highway east of Cannonville was washed away; this bridge was considered safe. The heavy storms will be the means of saving the crops through Widtsoe and Escalante. Conditions were getting bad there. The stockmen through this country are rejoicing over the storm. Forest Ranger Leland Heywood has been appointed to make a careful survey of all springs in the Powell National Forest to determine the possibility of reservoirs and spring development to aid stockmen.

Very truly yours,

P. P. Patraw  
Superintendent

TRAVEL REPORT BY STATES FOR THE SEASON TO DATE, May 31, 1934 and 1933.

State	Cars	Pass	Stage	Misc.	Cars	Pass	Cars	Pass.
Alabama	1	2	0	0	1	2	1	2
Arizona	246	709	0	4	246	713	157	538
Arkansas	0	0	0	0	0	0	1	1
California	1927	5079	4	3	1927	5086	992	2580
Colorado	140	386	0	2	<del>140</del>	388	61	160
Connecticut	8	19	0	0	8	19	3	6
Dist. of Columbia	17	43	0	0	17	43	0	0
Florida	3	9	0	0	3	9	3	6
Georgia	3	8	0	0	3	8	0	0
Idaho	104	298	0	0	104	298	69	194
Illinois	91	236	0	2	91	238	30	71
Iowa	25	57	0	0	25	57	9	23
Indiana	22	59	0	0	22	59	4	13
Kansas	10	27	2	0	10	29	5	15
Kentucky	2	5	0	0	2	5	4	7
Louisiana	3	6	0	0	3	6	1	3
Maine	2	4	0	0	2	4	2	5
Massachusetts	15	33	0	0	15	33	8	20
Maryland	5	12	0	0	5	12	2	7
Michigan	32	93	0	0	32	93	16	39
Minnesota	34	92	0	0	34	92	17	43
Mississippi	1	2	0	0	1	2	1	2
Missouri	21	59	0	0	21	59	7	20
Montana	52	138	0	1	52	139	34	90
Nebraska	27	78	0	0	27	78	7	22
Nevada	165	519	0	0	165	519	88	322
New Hampshire	4	10	0	0	4	10	0	0
New Jersey	17	45	1	1	17	47	7	23
New Mexico	31	98	0	0	31	98	10	33
New York	70	176	0	0	70	176	38	100
North Carolina	2	6	0	0	2	6	1	2
North Dakota	3	11	0	0	3	11	4	11
Ohio	39	107	0	0	39	107	10	28
Oklahoma	11	27	0	0	11	27	3	6
Oregon	39	99	0	0	39	99	18	49
Pennsylvania	26	62	0	2	26	64	10	29
Rhode Island	3	7	0	0	3	7	2	6
South Dakota	9	23	0	0	9	23	3	9
Tennessee	3	7	0	0	3	7	0	0
Texas	31	89	0	1	31	90	13	27
Utah	3580	12469	0	12	3580	12481	2513	8500
Vermont	4	9	0	0	4	9	1	2
Virginia	1	3	1	0	1	4	4	9
Washington	71	174	0	1	71	175	42	111
West Virginia	1	2	0	0	1	2	0	0
Wisconsin	26	73	0	1	26	74	12	33
Wyoming	57	151	0	0	57	151	18	43

Continued:

Alaska	0	0	0	0	0	●	1	1
Africa	1	2	0	0	1	2	0	0
Australia	1	4	0	0	1	4	0	0
Brazil	1	2	0	0	1	2	0	0
Canada	24	69	0	0	24	69	0	0
Canal Zone	2	5	0	0	2	5	0	0
Central America	0	0	0	0	0	0	1	2
China	4	11	0	0	4	11	0	0
England	0	0	0	0	0	0	1	3
Germany	2	2	0	0	2	2	1	2
Hawaii	3	6	0	0	3	6	1	2
India	1	2	0	●	1	2	1	3
Malay Island	1	3	0	0	1	3	0	0
Mexico	5	13	0	0	5	13	0	0
Siam	1	2	0	0	1	2	0	0
South Africa	1	3	0	0	1	3	0	0
Japan	1	2	0	0	1	2	0	0
Total's	7032	21745	8	50	7032	21785	4242	13229

Bryce Canyon National Park, Utah

May  
Travel by States

State	May				1934				1935				
	C	P	S	M	C	P	S	M	C	P	S	M	
Alabama	:	:	:	:	1:	3:	:	:	:	:	:	:	
Arizona	:	22:	51:	:	52:	153:	:	:	11:	26:	5:	3	
Arkansas	:	:	:	:	1:	4:	:	:	:	:	:	:	
California	:	555:	1547:	1:	1433:	4912:	1:	:	531:	1755:	:	:	
Colorado	:	27:	84:	:	62:	204:	:	:	9:	27:	:	:	
Connecticut	:	:	:	:	1:	3:	:	:	:	:	:	:	
District of Columbia	:	4:	13:	:	7:	25:	:	:	1:	1:	:	:	
Delaware	:	:	:	:	1:	2:	:	:	1:	2:	:	:	
Florida	:	1:	4:	:	2:	5:	:	:	:	2:	:	:	
Georgia	:	1:	2:	:	3:	6:	:	:	:	:	:	:	
Idaho	:	15:	36:	:	75:	241:	:	:	26:	85:	:	:	
Illinois	:	14:	33:	:	32:	88:	:	:	4:	11:	:	:	
Indiana	:	4:	11:	:	6:	15:	:	:	3:	5:	:	:	
Iowa	:	6:	13:	:	17:	55:	:	:	3:	10:	:	:	
Kansas	:	2:	6:	2:	7:	17:	2:	:	4:	9:	:	:	
Kentucky	:	:	:	:	3:	4:	:	:	:	:	:	:	
Louisiana	:	2:	4:	:	3:	6:	:	:	:	:	:	:	
Maine	:	:	:	:	2:	3:	:	:	:	:	:	:	
Maryland	:	:	:	:	1:	3:	:	:	1:	3:	:	:	
Massachusetts	:	5:	11:	:	10:	26:	:	:	4:	13:	:	:	
Michigan	:	8:	21:	:	31:	88:	:	:	2:	6:	:	:	
Minnesota	:	9:	24:	:	10:	26:	:	:	1:	2:	:	:	
Mississippi	:	:	:	:	1:	4:	:	:	:	:	:	:	
Missouri	:	7:	21:	:	8:	24:	:	:	1:	2:	:	:	
Montana	:	5:	16:	:	15:	46:	:	:	6:	16:	:	:	
Nebraska	:	6:	16:	2:	21:	66:	2:	:	12:	42:	:	:	
Nevada	:	13:	56:	:	88:	291:	:	:	29:	90:	:	:	
New Hampshire	:	:	:	:	1:	4:	:	:	1:	:	:	:	
New Jersey	:	2:	5:	:	17:	55:	:	:	1:	4:	:	:	
New Mexico	:	1:	2:	:	6:	17:	:	:	1:	5:	:	:	
New York	:	13:	34:	:	44:	134:	:	:	23:	64:	:	:	
North Carolina	:	:	:	:	2:	6:	:	:	:	:	:	:	
North Dakota	:	1:	3:	:	4:	14:	:	:	1:	2:	:	:	
Ohio	:	8:	29:	:	18:	79:	:	:	5:	15:	:	:	
Oklahoma	:	3:	8:	:	7:	24:	:	:	:	:	:	:	
Oregon	:	10:	26:	:	31:	97:	:	:	2:	3:	:	:	
Pennsylvania	:	6:	16:	:	26:	85:	:	:	4:	16:	:	:	
Rhode Island	:	2:	4:	:	5:	16:	:	:	1:	2:	:	:	
South Carolina	:	:	:	:	2:	3:	:	:	:	:	:	:	
South Dakota	:	1:	2:	:	5:	14:	:	:	1:	5:	:	:	
Tennessee	:	:	:	:	2:	6:	:	:	:	:	:	:	
Texas	:	5:	15:	:	27:	94:	:	:	5:	15:	:	:	
Utah	:	567:	2108:	19:	4:	1358:	5075:	19:	4:	679:	2143:	10:	3
Vermont	:	2:	5:	:	5:	16:	:	:	:	:	:	:	
Virginia	:	:	:	:	3:	12:	:	:	:	:	:	:	
Washington	:	11:	30:	2:	1:	31:	105:	:	1:	11:	35:	:	:
West Virginia	:	:	:	:	1:	4:	:	:	:	:	:	:	:
Wisconsin	:	10:	30:	:	30:	100:	:	:	8:	22:	:	:	
Wyoming	:	5:	11:	:	25:	80:	:	:	1:	1:	:	:	
Canada	:	2:	6:	:	6:	16:	:	:	:	:	:	:	
Hawaii	:	1:	2:	:	3:	4:	:	:	:	:	:	:	
Total		1356	4315	24:	5:	3552	12280:	24:	5:	1391	4460:	15:	6

10-157  
(July, 1929)

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

TRAVEL REPORT

ZION

National Park for the month of MAY 1934

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year		
					Number	Percent	
<u>PRIVATE TRANSPORTATION:</u>							
Cars first entry, . . . . .	1717	6260	1195	3099	3161	102.	Inc
Cars reentry, . . . . .	96	761	164	1138	377	33.12	Dec
Motorcycles, . . . . .	3	11	5	5	6	225.	Inc
Total motor vehicles, . . . . .	1816	7032	1364	4242	2790	65.77	Inc
Persons entering via motor vehicles, . . . . .	5387	21730	4469	13073	8657	66.21	Inc
Persons entering via other private transportation, . . . . .	4	15	7	7	8	112.5	Inc
Total persons entering via private transportation, . . . . .	5391	21745	4476	13080	8665	66.24	Inc
<u>OTHER TRANSPORTATION:</u>							
Persons entering via stages, . . . . .	7	8	117	122	114	93.44	Dec
Persons entering via trains, . . . . .							
Persons entering otherwise, . . . . .	1	30	11	27	3	11.11	Inc
Total other transportation, . . . . .	8	38	128	149	111	74.49	Dec
GRAND TOTAL ALL VISITORS, . . . . .	5399	21783	4604	13229	8554	64.66	Inc

Local travel this month	189 Cars	669 people	This Year	Last Year	Increase	
					Number	Percent
Local travel this season	1615 Cars	10107 people				
Automobiles in public camps during month, . . . . .			425	442	17	3.84 Dec
Campers in public camps during month, . . . . .			1036	1232	196	15.9 Dec

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

10-157  
(July, 1929)

TRAVEL REPORT

Bryce Canyon National Park for the month of May 1934

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
<u>PRIVATE TRANSPORTATION:</u>						
Cars first entry, . . . . .	1353	3548	759	1385	2163	-156.31
Cars reentry, . . . . .						
Motorcycles, . . . . .	3	4	6	6	-2	-66.66
Total motor vehicles, . . . . .	1356	3552	765	1391	2161	155.35
Persons entering via motor vehicles, . . . . .	4315	12280	2140	4466	7814	174.74
Persons entering via other private transportation, . . . . .						
Total persons entering via private transportation, . . . . .	4315	12280	2140	4466	7814	174.74
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages, . . . . .	24	24	2	15	9	60.00
Persons entering via trains, . . . . .						
Persons entering otherwise, . . . . .	5	5	1	6	-1	-16.66
Total other transportation, . . . . .	29	29	3	21	8	38.09
GRAND TOTAL ALL VISITORS, . . . . .	4344	12309	2143	4487	7822	174.42

	This Year	Last Year	Increase	
			Number	Percent
Automobiles in public camps during month, . . . . .	177	94	83	88.29
Campers in public camps during month, . . . . .	577	322	255	79.19

Fagergren

Bryce Canyon National Park, Utah

May 31, 1934

Duration of visits to the Park

Number of cars entering the Park this month	1356
Number of cars leaving the Park this month	1344
Number of cars that left the same period entered	532
Number of cars that entered in the A. M. and left the P.M.	290
Number of cars that entered in the P. M. and left the A. M.	328
Number of cars that remained two or more periods	194

Fagergren

WEATHER REPORT  
ZION NATIONAL PARK  
MAY, 1934

TEMPERATURES

Mean maximum . . . . . 88.48  
Mean minimum . . . . . 58.94  
Mean . . . . . 73.71  
Maximum . . . . . 97 on 11th  
Minimum . . . . . 42 on 3rd  
Greatest daily range . . . . . 36

PRECIPITATION

Total . . . . . 0.05"  
Greatest in 24 hours . . . . . 0.03" on 1st

NUMBER OF DAYS

Clear . . . . . 22  
Partly cloudy . . . . . 2  
Cloudy . . . . . 7

ALLEN T. STRUNK  
Observer

DEPARTMENT OF THE INTERIOR  
BRYCE CANYON NATIONAL PARK  
WEATHER REPORT FOR THE  
MONTH OF MAY 1934.

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TEMPERATURE:

Mean Maximum	67.6	
Mean Minimum	37.8	
Mean	52.7	
Maximum	77.	On the 11
Minimum	26.	On the 13
Greatest daily range	38.	On the 16, 21.
Mean set Maximum 6 P.M.	61.	

PRECIPITATION:

Precipitation for the month	2.76	Inches
Greatest in 24 hours	.89	

WEATHER:	Days clear	21
	Days partly cloudy	5
	Days cloudy	5
	Stormy days	5

PREVAILING WINDS:

South	16
S.W.	4
N.W.	1
N.	1
S.E.	1
Calm	8
Total	<u>31</u>

MAURICE COPE  
Observer.

10-159  
 (May, 1931)

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Zion-Bryce Canyon National Park for the Month of May, 1934

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	25	38	13	1
Number of additions	4	85	5	37
Total	29	123	18	38
Number of separations	00	53	00	33
Number of employees close of month	29	70	18	5
Number of promotions during month				
Aggregate amount of annual leave taken	14 $\frac{1}{2}$		3	
Aggregate amount of sick leave taken				
Aggregate amount of leave without pay	6			

No separations due to retirement or reduced  
 appropriations.

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## REPORT OF PARK REVENUES

Zion National Park for the Month of May, 1934

	This Year	Last Year
Park revenue on hand beginning of month, . . . . .	300.00	149.00
Received, . . . . .	1,521.65	987.00
Total, . . . . .	1,821.65	1,136.00
Remitted, . . . . .	1,106.00	491.00
On hand close of month, . . . . .	715.65	645.00
Park revenues received this year to date, . . . . .		11,551.35
Park revenues received last year to date, . . . . .		9,589.00
Increase, . . . . .		1,962.35
Per cent of increase, . . . . .		20.5

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF SALES OF PUBLICATIONS

Zion National Park, Utah

May, 1954

	Number	Value
<u>GOVERNMENT PUBLICATIONS:</u>		
On hand beginning of month . . . . .	6	
Received during month . . . . .	22	
Total . . . . .	28	
Sold during month. . . . .	9	9.00
On hand at close of month . . . . .	19	9.00

NON-GOVERNMENT PUBLICATIONS:

On hand beginning of month . . . . .		
Received during month. . . . .		
Total . . . . .		
Sold during month. . . . .		
On hand at close of month . . . . .		

Cash on hand beginning of month. . . . .	0 00
Sales during month . . . . .	9.00
Total . . . . .	9.00
Remitted during month. . . . .	0 00
Balance . . . . .	9.00

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## STATUS OF AUTHORIZED PROJECTS

Zion

~~Big Bend Canyon~~

National Park for the Month of May, 1934

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
FP19 Campground development	55 <sup>99</sup>			June 30, 1934
FP20 Sewer-water system	97	2	1	June 30, 1934
FP21 Checking sta, East Ent	100		62	
FP23 Water system, East Ent	47 <sup>100</sup>	16	19	June 30, 1934
FP24 Elec sys, South Ent	.4			June 30, 1934
FP169 Stream protection	99			June 30, 1934
FP170 Campground svce roads	76 <sup>87</sup>	5	39	June 30, 1934
FP171 West Rim Trail	96 <sup>100</sup>	5	4	June 30, 1934
FP172 Refrigerator Can Tr	92			June 30, 1934
FP173 Valley trails	84	2	1	June 30, 1934
FP174 Parking area	99	1		June 30, 1934
FP176 Equipment	100			
FP16 Employees qtrs, hdqts	00			June 30, 1934
FP17 Employees qtrs, hdqts	00			June 30, 1934
FP18 Comfort sta, South Ent	00			June 30, 1934
FP22 Employees qtrs, East Ent	00-10			June 30, 1934
FP175 Footpaths, hdqts	5 <sup>47</sup>	5		June 30, 1934

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS  
Bryce Canyon~~Table~~National Park for the Month of May, 1934

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
FP8 Cabins, employees	61 <sup>94</sup>	61		June 30, 1934
FP9 Ext to office building	5 <sup>52</sup>	5		June 30, 1934
FP11 Comfort station	34	34		June 30, 1934
FP14 Equipment shed	81 <sup>100</sup>			June 30, 1934
FP15 Boundary fence	99			June 30, 1934
FP156 Post const of roads	51 <sup>66</sup>	11		June 30, 1934
FP157 Hdqts service roads	90			June 30, 1934
FP158 Rim Trail const	41			June 30, 1934
FP159 Rim footpaths	76 <sup>100</sup>			June 30, 1934
FP160 Equipment	74			June 30, 1934
FP162 Footpath, lodge to rim	46 <sup>100</sup>	9		June 30, 1934
FP164 Footpaths, hdqts	19			June 30, 1934
FP165 Footpath, PA to rim	40 <sup>100</sup>			June 30, 1934
FP161 Lodge road widening	100	100		
FP163 Lodge-Bryce Camp path	00 <sup>100</sup>			June 30, 1934
FP166 Prot railing, Bryce Pt	00 <sup>37</sup>			June 30, 1934
FP10 Water sys ext to bldgs	000			June 30, 1934
FP12 Water sys ext to camp	00			June 30, 1934
FP13 Sewer system ext	00			June 30, 1934
331 Telephone sys	11			