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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Zion-Bryce NATIONAL PARK

FILE NO.

MONTHLY REPORT FOR OCTOBER, 1932

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STEPHEN T. MATHER,  
*Director.*

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

November 14, 1932

The Director  
National Park Service  
Washington D. C.

Dear Mr. Director:

The following is my report of activities in Zion and Bryce Canyon National Parks for the month of October, 1932:

000 General

020 General Weather Conditions

021 In the park. The weather at both Zion and Bryce Canyon National Parks proved to be a little colder than normal for October. The coldest day in Zion was 22 and in Bryce 12 degrees above zero, with an average temperature of 66.25 for Zion and 39.35 for Bryce Canyon. A total of .05 inches of rain fell in Zion and an estimated total of .08 inches of precipitation in Bryce. The campgrounds have been kept open in both parks throughout the month but the water was turned off at Bryce on the 23rd on account of freezing weather.

100 Administrative

120 Park Inspections by

121 Superintendent. On the 6th I met Superintendent Roger W. Toll of Yellowstone National Park in Cedar City and on the 7th we started on our trip of inspection of the proposed Kolob Canyons National Monument. We were accompanied by Assistant Landscape Architect Langley, Mr. Randall L. Jones of the Union Pacific System and Walt Beatty, guide and packer. The trip was made by saddle and pack and required three days through the canyons and returning to Zion National Park over the plateau and down the West Rim Trail. On the 10th Mr. Toll and I made an examination of the Cedar Breaks area in company with Assistant Regional Forester E. Dana Parkinson of the Ogden regional office and District Supervisor J. E. Curr of the Dixie National Forest. On the 11th Mr. Toll and I went to Kanab, thence into Johnson Canyon where we examined some petroglyphs in a withdrawn area, and over the old highway to Alton and back to Mt. Carmel Junction where we parted, Superintendent Toll returning northward en route to Denver. On the 20th

accompanied by Assistant Superintendent Parker and General Mechanic Brockmeier, I went to Bryce Canyon National Park by way of Pipe Springs for the purpose of inspecting road and building construction work in progress, returning the same day by way of Cedar City. I again went to Bryce on the 27th for the purpose of approving the location of borrow pits needed in connection with grading of section Bl, Bryce Rim Road, returning to Zion on the 28th. At Zion frequent inspections were made of the supplemental work on the tunnel road and the valley road.

123 National Park Service Officers. The visit of Superintendent Toll of Yellowstone National Park is detailed in the preceding paragraph.

Assistant Chief Engineer A. W. Burney arrived at Zion from Grand Canyon on the 4th departing on the 6th. He made a thorough inspection of existing and proposed improvements on the floor of the valley road and the East Rim Road.

#### 170 Plans, Maps and Surveys

The 1932 edition of Zion general development plan maps were received from the Chief Landscape Architect. Work is in progress on revision of the development outline for 1933.

Advice has been received from the Director of his approval to the plan for establishing the permanent utility group in a selected area in Oak Creek Canyon.

An allotment of \$150 was received from the Chief Engineer for making a survey for the improvement and betterment of Bryce north entrance road.

#### 190 Miscellaneous

Following approval of the President to filling the vacancy, Charles A. Gerrard was probationally appointed Storekeeper-Costkeeper for Zion National Park effective October 1. The temporary services of Ranger Fred. C. Fagergren were terminated on October 17 and of Ranger John S. McAllister on October 31. Park Naturalist Gray departed for the east on a one month's furlough at the conclusion of which he will report to the Washington office for two months detail.

#### 200 Maintenance, Improvements and New Construction

##### 210 Maintenance

An average force of ten men and foreman were employed during the month on road maintenance.

## 230 New Construction

The employees cabin at Bryce is 98 per cent complete and the administration building is 90 per cent complete. Good progress was made on this building during the month.

A driveway and parking place was constructed to join the campground road with the administration building. This consisted of grading and gravel surfacing.

Very slow progress has been made by the contractor for surfacing the valley road. All work of placing supplemental base surfacing and the preparation of the shoulders and ditches is completed and about three miles of prime coat of oil placed on the base. The oil mix plant was finally completed and placed in test operation on the afternoon of the 18th. That same evening while a fuel tank was being filled with oil an explosion took place wrecking the tank, seriously damaging other parts of the plant and seriously injuring two employees. Replacement tanks were obtained locally, the damage to the plant repaired and the plant was placed back in operation and the spreading of surfacing material started on the 28th. Since that date progress has been excellent.

On the 15th heavy ground began developing in the section of the tunnel between gallery 6 and the place where the block of rock caved in last month. In this section there is a large longitudinal crack in the ceiling and a large block of rock is cantilevered out from the old concrete lining at gallery 6. In order to support the rock until reinforced concrete could be placed in and allowed to set it was necessary to put in heavy stulls practically obstructing the passageway. Accordingly, the tunnel was ordered closed until October 31 on which date the tunnel was reopened. At the close of the month the contractor had completed all concrete work at gallery 3, forms were in for the small amount of concrete required at gallery 2, the gunite crew was nearly finished with the guniting of the ceiling at gallery 1 and the work had in general reached the point where finishing touches were being put on here and there. At this writing it appears probable that the contractor will over-run his allowable time although the rate of progress has recently been more satisfactory. In the work outside the west portal about two-thirds of the excavation for the line change had been completed.

Fair progress is being made by the contractor on the grading of section B1, Bryce Rim Road. The contractor is encountering unusual difficulties in attempting to shape up the grade in the long sections where the grade is being placed in shallow rock cuts or shallow fills. Due to the coarseness of the rock in the cuts it will be necessary to borrow considerable quantities of finer material to get a cushion to form the sub-grade. At the close of the month nearly all of the rough grading was completed and the contractor was opening up the approved quarry near station 440.

## 250 Improvement of Nearby Transcontinental Highways.

The State has awarded a contract and work is now in progress on construction of a new grade on a relocated line of highway U. S. 89 between

Mammoth Creek and Sevier Summit, about seven miles. At the rate that highway 89 has been improved in recent years it will not be long before the whole route is in such condition as to be an all-year highway. Thereafter it will become feasible to make Bryce practically an all-year park. All that will be necessary to do this will be the acquisition of sufficient snow removal equipment to keep the park's road system clear of snow.

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

#### 310 Public Service Contractors

Although Zion Lodge officially closed on October 6, it remained open for informal service until October 11 when it was closed for the winter. The cafeteria and informal service at Bryce Canyon National Park were closed on October 1.

#### 400 Flora, Fauna and Natural Phenomena

#### 410 Ranger, Naturalist and Guide Service

Checking was closed on the first of the month at Bryce. The ranger-checker assisted on the auto camp, erection of signs, and kept stray cattle and horses out of the park as they came down from the forest grazing lands. The east entrance checking station in Zion was open nine hours each day until the 18th when it was closed for the season. The ranger-checker was detailed to the south entrance until the end of the month, relieving the regular ranger for patrol during the hunting season.

There were very few deer hunters in the vicinity of either Zion or Bryce Canyon National Parks this season and few deer were killed near the parks. About forty hunters were out on the first three days of the season along the south boundary of the park in the hills near Springdale and Rockville. Only five deer were killed by the forty hunters.

At Bryce five deer were killed in the vicinity of the park. The ranger counted fifteen deer in the park but saw none outside.

Allen Nason, a hunter from Salt Lake City, was lost on Escalante Mountain north of the park and Rangers Cope and Fagergren and several laborers from Bryce assisted in a search for him. It was quite stormy that night and the searching party did not find the man. The next day, however, he turned up none the worse for his night out on the mountain.

#### 470 Animals

The deer in Zion are very plentiful this fall and late visitors to the park have been able to see from 50 to 100 head of deer while driving between the Virgin River Bridge and the Temple of Sinawava. The deer are in very fine condition and there seems to be no more of the sickness or disease that was evident earlier in the fall.

Mr. Johnson of the Biological Survey was in Bryce during the month inspecting damage done by porcupines.

One cougar was killed by the government hunters in Yellow Creek just inside the park boundary at Bryce and six in Willis Creek near Rainbow Point.

#### 500 Use of Park Facilities by the Public

##### 530 Visitors

October 2-3, Zion - Dr. Conway of Glacier National Park.

October 2-3, Zion - Allen family reunion, 50 people in party.

October 18, Zion - Highway Engineer G. L. McLane, B.P.R., and State Highway Engineer O'Connell of Phoenix, Arizona.

October 21, Zion - Assistant Superintendent and Mrs. John C. Preston, Rocky Mountain National Park.

October 21, Zion - Assistant Chief Ranger and Mrs. Miller of Yellowstone National Park.

October 26-29, Zion and Bryce - Ranger-Naturalist and Mrs. Borell, Yosemite National Park.

October 27, Bryce - Custodian Evon Z. Vogt, El Morro National Monument.

Zion - Mr. and Mrs. M. Kude, Hawaii.

Zion - Mr. Frank Orr, Attorney, California.

Zion - Following members of Utah State Municipal League: W. F. Olsen, President of the League; Fred C. Williams, Commissioner of Water Works, Ogden; D. Williams, Mayor of Bountiful; L. Hunsaker, Mayor of Tremonton; J. C. Stocks, Commissioner of Bountiful; James E. Burns, Bountiful; N. Dahle, Mayor of Spanish Fork; L. W. Elliotson, Mayor of Provo; W. L. Warner, Mayor of Richfield; L. Wingate, Mayor of Monroe; L. Palmer, Mayor of Farmington.

#### 600 Protection

##### 610 Police Protection

The deer hunting season opened on the 20th and the rangers were all on patrol until the 31st except a checker at the south entrance at Zion. No arrests were made but hunters hunted very close to the boundary lines in both parks. The entire park boundary was patrolled in Bryce and all but the north boundary in Zion. There are several points along the north boundary in Zion where the deer range but it cannot be reached from either side of the park. This area has never had protection from grazing or hunting. There is a strip of about two miles between Crystal Creek and the North Fork where these points run into the park. "Hunting Prohibited" signs are posted along the line a mile north of the park boundary. The land is owned privately and the owner has made every effort to keep hunters away from the park and off his land.

630 Accidents

Accidents of a minor nature have resulted in first aid treatment to several employees of the contractor in the Zion Tunnel.

Very truly yours,

F. P. PATRAW, Superintendent

By

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Acting Superintendent



October 1932, continued.

LINE	Cars	Pass.	Stage	Misc.	1932		1931	
					Cars	Pass.	Cars	Pass.
India	1	3		1	3	0	0	
Mexico	0	0		0	0	1	3	
Total	489	1390	1	3	489	1394	885	2445

**DEPARTMENT OF THE INTERIOR**  
**NATIONAL PARK SERVICE**

R E P O R T   O F   P A R K   R E V E N U E S

Zion-Bryce National Park for the Month of October, 1932

	This Year	Last Year
Park revenue on hand beginning of month, . . . . .	350.00	244.00
Received, . . . . .	685.00	1149.00
Total, . . . . .	1035.00	1393.00
Remitted, . . . . .	740.00	650.00
On hand close of month, . . . . .	295.00	743.00
_____		
Park revenues received this year to date, . . . . .		8206.00
Park revenues received last year to date, . . . . .		9196.00
<del>Increase</del> Decrease . . . . .		990.00
Per cent of <del>increase</del> decrease . . . . .		10.7

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

REPORT OF SALES OF PUBLICATIONS

	Number	Value
<u>GOVERNMENT PUBLICATIONS:</u>		
On hand beginning of month, . . . . .	135	135.00
Received during month, . . . . .		
Total, . . . . .	135	135.00
Sold during month, . . . . .	4	4.00
On hand at close of month, . . . . .	131	131.00

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, . . . . .	19.00
Sales during month, . . . . .	4.00
Total, . . . . .	23.00
Remitted during month, . . . . .	21.00
Balance, . . . . .	2.00

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## STATUS OF AUTHORIZED PROJECTS

Zion-Bryce ..... National Park for the Month of ..... October, 1932 .....

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
<u>Zion</u>				
412 Equipment shed	00			June 30, 1933
489 Landscaping	95			June 30, 1933
504.4 Post construction	75	15	30	June 30, 1933
504.5 Basket dams	100	10		
<u>Bryce</u>				
413 Employees quarters	90	50	40	Nov. 30, 1933
414 Information office	90	65	25	Nov. 30, 1933

10-157  
(July, 1929)

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

TRAVEL REPORT

ZION National Park for the month of October, 1932.

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent

PRIVATE TRANSPORTATION:

Cars first entry, . . . . .	383	383	755	755	372	49.80 de.
Cars reentry, . . . . .	106	106	129	129	23	18.44 de.
Motorcycles, . . . . .	0	0	1	1	1	
Total motor vehicles, . . . . .	<u>1489</u>	<u>1489</u>	<u>885</u>	<u>885</u>	<u>396</u>	<u>44.74 de.</u>
Persons entering via motor vehicles, . . . . .	1390	1390	2389	2389	999	41.81 de.
Persons entering via other private transportation, . . . . .			2	2	2	
Total persons entering via private transportation, . . . . .	<u>1390</u>	<u>1390</u>	<u>2391</u>	<u>2391</u>	<u>1001</u>	<u>41.81 de.</u>

OTHER TRANSPORTATION:

Persons entering via stages, . . . . .	1	1	48	48	47	97.91 de.
Persons entering via trains, . . . . .						
Persons entering otherwise, . . . . .	<u>3</u>	<u>3</u>	<u>6</u>	<u>6</u>	<u>3</u>	<u>50.00 de.</u>
Total other transportation, . . . . .	<u>4</u>	<u>4</u>	<u>54</u>	<u>54</u>	<u>50</u>	<u>92.59 de.</u>
GRAND TOTAL ALL VISITORS, . . . . .	<u>1394</u>	<u>1394</u>	<u>2445</u>	<u>2445</u>	<u>1051</u>	<u>42.98 de.</u>

~~LOCAL TRAVEL SEASON 1933, Cars 29 Passengers 105.~~

	This Year	Last Year	Increase	
			Number	Percent
Automobiles in public camps during month, . . . . .	107	77	30	38.96 de
Campers in public camps during month, . . . . .	347	185	162	87.56

WEATHER REPORT FOR ZION NATIONAL PARK MONTH OF OCTOBER 1932.

TEMPERATURE:

Mean Maximum . . . . . 75.  
Mean Minimum . . . . . 45.12  
Mean . . . . . 66.25  
Maximum . . . . . 87 on the 15th.  
Minimum . . . . . 22 on the 25th

PRECIPITATION:

Greatest in 24 hours . . . . . 08 inches  
Total . . . . . .08 in on 18th.

NUMBER OF DAYS:

With .01 in or more of precipitation . . . . . 1 day.  
Clear days . . . . . 20 days.  
Partly cloudy . . . . . 1 day.  
Cloudy . . . . . 10 days.

A.G. Schiefer.  
Cooperative Observer.

WEATHER REPORT FOR BRYCE CANYON NATIONAL PARK MONTH OF OCTOBER, 1932

TEMPERATURE:

Mean Maximum . . . . . 52.  
Mean Minimum . . . . . 26.7  
Mean . . . . . 39.35  
Maximum . . . . . 64 - 13th & 15th  
Minimum . . . . . 12 - 24th

PRECIPITATION:

Greatest in 24 hours . . . . . .05 in.  
Total . . . . . .05 in. on 17th

NUMBER OF DAYS:

With .01 in. or more of precipitation . . . . . 1 day  
Clear Days . . . . . 21 days  
Partly cloudy . . . . . 2 days  
Cloudy . . . . . 8 days

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 October, 1932

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	15	20	13	19
Number of additions.....	00	30	00	82
Total.....	15	50	13	101
Number of separations.....	2	37	2	20
Number of employees close of month	13	13	11	81
Number of promotions during month.....	None		None	
Aggregate amount of furlough leave taken	44 $\frac{1}{2}$			
Aggregate amount of annual leave taken	00		18	
Aggregate amount of sick leave taken...	8		00	
Aggregate amount of leave without pay..	00		00	

No separations due to retirement or reduced appropriations.