

April 1981
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DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

----- NATIONAL PARK
ZION-BRYCE CANYON

FILE NO.

MONTHLY REPORT

APRIL 1931

IMPORTANT

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STEPHEN T. MATHER,
Director.

May 9, 1931.

The Director,
National Park Service,
Washington, D. C.

Dear Mr. Director:

Report on operations and activities during the month of April, 1931, in Zion and Bryce Canyon National Parks is submitted herewith.

000 General

April saw the beginning of the working season in these two parks and although operations are not in complete swing a program is gradually being accomplished.

On April 3 proposals were opened in the office of the district engineer of the Bureau of Public Roads for the reconstruction of the main road through Zion Canyon, numbered as project 2A-4A. The low bidder, Morrison-Knudsen Company, having made errors in their figures of such great amount as to make it impracticable to accept the work, they declined the contract and it was awarded to Merritt-Chapman & Scott, of San Pedro, California, for \$179,568.28.

020 General weather conditions. Better weather than has been the rule in both parks during April could not be expected or desired anywhere. It has been fine and nights have been just right. The only exceptions to this have been three or four days of wind and rain but not at all unpleasant compared to the damaging wind storms which occurred in the northern part of the state where trees, roofs and motor vehicles were destroyed by heavy gales.

100 Administrative

110 Status of work. Outside work is gradually getting under way for the present season and up until the first of April office work was kept to date. During the month, however, it was impossible for one individual to keep up with the necessary financial reports, stenography, etc., as well as compile the 1933 annual estimates, and we find ourselves at the end of April at least two weeks behind in office procedure. It was the expectation to secure the services of the additional permanent clerk by April first but it has been the end of April before the routine appointment procedure was completed and it will be some time in May before the new appointee reports for duty.

120 Park inspections by superintendent. The superintendent made inspections of work in progress at both Zion and Bryce parks as occasion demanded. He also attended the opening of road construction bids in Ogden on April 3 and attended the conference on survey and construction of the proposed south approach road to Bryce Canyon which was held in the office of the State Road Commission and attended by Chairman Blood of that commission, with other members, the superintendent, and Mr. Randall Jones representing the Union Pacific System. The same matters as talked of in this conference were taken up separately with district engineer Finch.

A detailed inspection of the survey route for project 1A, Bryce Canyon Rim Road, was made in company with landscape architect Langley and Bureau of Roads engineers Brown and English on April 11-14. This inspection covered the sections which it will be at all possible to construct during the 1931 working season.

123 Inspections by special field representatives of National Park Service. Engineer Webber from Field Headquarters was in the park on official business on April 5, 6 and 7.

140 Labor situation. With the beginning of construction work on the Zion Canyon road and the opening of the park labor season unemployment has been relieved in nearby communities to a great extent.

150 Equipment and supplies. Zion Park received a new steel map cabinet on April 17.

160 Status of alienated lands. The final completion of and payment under contracts for the purchase of private lands at our southern boundary has been delayed for an apparently unnecessary length of time by the inability of special representative E. C. Solinsky to visit the park and complete certain details of land transfer.

200 Maintenance, improvements and new construction

210 Maintenance. A considerable number of heavy slides occurred both on the Zion-Mount Carmel road and the Zion Canyon road but it has been possible to remove them without delaying travel or endangering visitors.

It has long been a problem as to how rock could be procured for maintenance, building and river protection projects without interfering with the park landscape and without unnecessarily increasing the cost of projects. During April a great deal of work was performed in constructing an entirely new secondary road into a former quarry site approved by the landscape department with the idea in mind of making access to this location easy, and then properly developing the quarry itself. There seems to be abundant rock in this location for at least river protection purposes and it is hoped that a considerable amount of good building material will be developed.

220 Improvements. The appointment of a new permanent clerk created the need for suitable quarters. As no houses were available for this purpose one

end of the park warehouse has been partitioned off into a livable three-room apartment consisting of bedroom, living room, kitchen and bath. These rooms are small but when furnished by the occupant will be fairly comfortable and are far superior to the quarters which would have been possible in tents.

Under appropriations for extension of our water supply system a new small concrete storage basin is being installed at a point in our supply line estimated to furnish us proper pressure for all purposes and at the same time relieve the heretofore annoying presence of a large amount of air in the water and consequent disturbing pressure fluctuations. This work was 80 per cent completed during April.

230 New construction. Construction has been started on the garage and woodshed at the superintendent's residence under the 1932 appropriation. This building is being constructed of local stone masonry to match the residence building, and by the end of April was 70 per cent completed.

240 Improvement of approaches to park. The State Road Commission has given publicity to the fact that the main state highway leading from the Utah boundary on the south north to Cedar City past the Zion Park junction will all be reconstructed and permanently surfaced by July of this year.

300 Activities of other agencies in the park

310 Public service contractors. The Utah Parks Company lodges were not opened during April but activities were started in order to prepare them for the coming season. Zion Park lodge will open on May 15.

317 Status of authorized projects of contractors. Merritt-Chapman and Scott began construction of Zion Canyon road on April 21 when they started clearing operations. Their work has proceeded at a rapid pace since that date.

356 Donations. A donation in the amount of \$20,000 has been made by Mr. Carl Gray, president of the Union Pacific System, to be used as part purchase price in the purchase of private lands at our south boundary.

400 Flora, fauna and natural phenomena.

440 Insect control. For the past five or six years the ash and cottonwood trees in Zion Canyon have been attacked in increasing numbers by two types of caterpillars, the tent caterpillar, and another the identification of which has not yet been definitely determined although efforts have been made at times to raise worms to the identification stage. Last year some groves of ash trees were completely defoliated and the year before other groves were damaged. During April of this year the caterpillars arrived in such tremendous numbers and attacked the trees with indications of such complete destruction that delay in starting control measures was not possible, and rangers in cooperation with a representative of the State Agricultural Department immediately started spraying operations, using a solution of lead arsenate as recommended by the State and by government entomologists. As funds available under regular appropriations were not sufficient, a request made for further insect control funds

was granted and a considerable amount of work performed. By the end of the month all cottonwood and ash trees on the public camp ground and the former Willie camp area as well as trees along the road and river had been sprayed, with very good results in extermination of the worms.

500 Use of park facilities by the public

510 Increase or decrease in travel. Travel for April did not show an increase over the same month last year as Easter Sunday being a little earlier during 1931 than was the case in 1930, did not bring as large a number of visitors. Easter was however a very successful day with 227 cars bringing 1,256 people. At Bryce Canyon where no count has ever been made for such an early date, the ranger reported 200 cars and 700 passengers for that day, showing that Bryce Canyon will soon equal if not surpass the attendance at Zion.

530 Visitors. Governor Dern of Utah was in the park on April 5 on his way back to Salt Lake following a vacation in southern Utah. Unfortunately the superintendent was absent in Ogden during that date and was not here to receive him. United States Attorney Gay of Porto Rico, with Mrs. Gay, spent three days in and around Zion Park during the month.

900 Miscellaneous

Associate Engineer Thos. C. Parker arrived in the park on April 5, being assigned from Field Headquarters to work in Zion and Bryce Parks during the present season.

Very truly yours,

Thos. J. Allen, Jr.,
Superintendent.

Statement of Personnel
 Zion and Bryce Canyon National Parks
 April, 1931.

<u>Appointed</u>		
Superintendent	1	
Assistant Park Naturalist	1	
Supervisor	1	
Chief Clerk	1	
Chief Ranger	1	
Ranger	3	
General Mechanic	<u>1</u>	9
 <u>Non-appointed</u>		
Foreman	1	
Truck driver	3	
Shovel engineer	1	
Stone mason	5	
Blacksmith	1	
Carpenter	2	
Tractor operator	1	
Drill operator	1	
Senior laborer	5	
Laborer	8	
Man and team	<u>2</u>	<u>50</u>
Total		59

COMPARATIVE TRAVEL REPORT BY STATES FOR THE SEASON TO DATE, 1931 AND 1930.

ZION NATIONAL PARK UTAH, APRIL 30, 1931.

state					Total 1931		Total 1930	
	Cars	Pass.	stage	Misc.	Cars	Pass.	Cars	Pass
Alabama	0	0	0	0	0	0	1	1
Arizona	208	601	0	1	208	602	72	254
Arkansas	2	4	0	0	2	4	2	8
California	1183	2840	0	1	1183	2841	366	864
Colorado	93	249	0	1	93	250	37	98
Connecticut	2	7	1	0	2	8	0	0
Dist. Columbia ..	4	8	0	0	4	8	0	0
Delaware	0	0	0	0	0	0	0	0
Florida	1	2	0	0	1	2	2	4
Georgia	3	6	0	0	3	6	0	0
Idaho	81	209	0	2	81	211	50	154
Illinois	22	62	2	1	22	65	12	34
Indiana	2	3	0	0	2	3	2	5
Iowa	8	27	0	0	8	27	7	20
Kansas	14	38	1	0	14	39	2	6
Kentucky	1	2	0	1	1	3	1	6
Louisiana	1	3	0	0	1	3	1	2
Maine	2	5	0	0	2	5	1	2
Maryland	1	2	0	0	1	2	1	2
Massachusetts ..	4	9	9	1	4	19	2	4
Michigan	13	34	0	0	13	34	12	26
Minnesota	11	29	0	0	11	29	9	37
Mississippi	0	0	0	0	0	0	1	2
Missouri	15	32	0	2	15	34	5	15
Montana	32	77	0	0	32	77	18	56
Nebraska	9	29	1	0	9	30	7	16
Nevada	89	264	0	1	89	265	48	150
New Hampshire ..	1	2	0	0	1	2	1	2
New Jersey	5	20	1	2	5	23	7	17
New Mexico	11	25	0	0	11	25	4	7
New York	20	58	6	0	20	44	13	38
North Carolina ..	1	2	0	0	1	2	0	0
North Dakota ...	3	7	0	0	3	7	3	9
Ohio	38	135	0	0	38	135	8	25
Oklahoma	9	21	0	2	9	23	3	6
Oregon	24	51	0	0	24	51	16	34
Pennsylvania ...	12	31	0	0	12	31	5	8
Rhode Island ...	2	8	0	0	2	8	0	0
South Carolina ..	0	0	0	0	0	0	0	0
South Dakota ...	3	8	0	0	3	8	2	6
Tennessee	0	0	0	0	0	0	1	1
Texas	25	90	0	0	25	90	12	33
Utah	2127	7438	0	5	2127	7443	2843	8505
Vermont	1	2	0	0	1	2	0	0
Virginia	3	11	0	0	3	11	0	0

Continued--

Washington	31	87	0	0	31	87	27	66
West Virginia ..	0	0	0	0	0	0	0	0
Wisconsin	7	17	0	0	7	17	6	13
Wyoming	40	97	0	2	40	99	14	38
Alaska	1	2	0	0	1	2	0	0
Canada	11	22	0	0	11	22	5	15
Hawaii	1	2	0	0	1	2	1	2
South America ..	1	2	0	0	1	2	0	0
Japan	0	0	1	0	0	1	0	0
Denmark	0	0	1	0	0	1	0	0
TOTAL	4178	12660	23	22	4178	12705	2330	10591

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Zion National Park, Utah. Travel report for April 1931.

	1929						
	This	This	Last	This	Last	Percent	
Month	Year	Month	Year	Month	Year	Inc.	Dec.
	To Date	To Date	To Date	1929	To Date		
<u>PRIVATE TRANSPORTATION:</u>							
Cars first entry	766	3746	660	1983	239	1004	88.9%
Cars reentry	340	430	444	845	29	252	203.6%
Motorcycles		2		2		2	
<u>Total motor vehicles</u>	<u>1106</u>	<u>4178</u>	<u>1104</u>	<u>2830</u>	<u>268</u>	<u>1258</u>	<u>42%</u>
Persons entering via motor vehicles	4023	12658	4818	10566	905	4028	
Persons entering via other private transportation ...		2				2	
<u>Total persons entering via private transportation ...</u>	<u>4023</u>	<u>12660</u>	<u>4818</u>	<u>10566</u>	<u>905</u>	<u>4030</u>	<u>19.8%</u>
<u>OTHER TRANSPORTATION:</u>							
Persons entering via stages	2	23		14	3	94	
Persons entering otherwise	8	23	4	11		16	
<u>Total other transportation</u>	<u>10</u>	<u>46</u>	<u>4</u>	<u>25</u>	<u>3</u>	<u>110</u>	<u>84.4%</u>
GRAND TOTAL ALL VISITORS	4033	12706	4822	10591	908	6451	19.9%

WEATHER REPORT FOR SPRINGDALE MONTH OF APRIL 1931.

TEMPERATURE.

Mean Maximum	74.53
Mean Minimum	47.26
Mean	60.89
Maximum	83 Date 18&19
Minimum	31 Date 3

PRECIPITATION.

Total54 inches
Greatest in 24 hours42 do

NUMBER OF DAYS-

With .01 inch or more precipitation, 3
Clear, 12; partly cloudy, 4; cloudy, 14.

Harold Russell, Cooperative Observer.

UNITED STATES
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STATUS OF PERSONNEL

Zion-Bryce Canyon National Park for the Month of April, 1931.

	This Month	This Month Last Year
Number of employees beginning of month,	15	18
Number of additions,	23	24
Total,	38	42
Number of separations,	8	13
Number of employees close of month,	30	29

Number of promotions during month Supt. to Grade 15 ONP April 1, 1931

Aggregate amount of annual leave taken, 3 days

Aggregate amount of sick leave taken, None

Aggregate amount of leave without pay, None

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Zion-Bryce Canyon National Park for the Month of April, 1931.

	This Year	Last Year
Park revenue on hand beginning of month,	279.00	
Received,	708.50	660.00
Total,	987.50	660.00
Remitted,	896.50	660.00
On hand close of month,	91.00	00.00

Park revenues received this year to date,	11,791.50
Park revenues received last year to date,	4,156.00
Increase,	7,635.50
Per cent of increase,	183%

UNITED STATES
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STATUS OF AUTHORIZED PROJECTS

Zion-Bryce Canyon

National Park for the Month of

April, 1931.

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date Completion
Road protection, basket dams	50 5	45 5	5	Sept. 1
Water system West Rim Trail	5	0 5	5	" 1
Woodshed and garage	100 70	30 70	70	June 1
Extension water system	25 20	5 20	20	July 1
<i>Improvement grounds below area</i>	20	20		<i>Sept 1</i>
<i>Extension sewer system</i>	10	10		" /