

July - all
1931

July, 1921

10-23

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

----- NATIONAL PARK

FILE NO.

IMPORTANT

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STEPHEN T. MATHER,
Director.

August 6, 1931

The Director
National Park Service
Washington D. C.

Dear Mr. Director:

The following is the narrative report of activities and operations at Zion and Bryce Canyon National Parks for the month of July, 1931:

000 General

July undoubtedly broke all records throughout the entire state of Utah for hot weather, and added to this, it occurred as a second successive month of extremely dry weather. The official maximum temperature for this area showed 109 degrees, but in many parts of Zion Canyon temperatures ranged as high as 116 degrees, and temperatures at Bryce, although not uncomfortably excessive, were much higher than is usual in that park, and for the first season since the park has operated it has been unnecessary to make log fires in the fireplaces during the evenings. Grazing of cattle and sheep has been seriously interfered with in the area surrounding both parks and with only five days in over two months showing any precipitation, and this of very small quantity, the trees, shrubs and flowers of Zion are beginning to show the effects of the unusual weather. Grape vines are showing dry leaves and in some sections of Zion Canyon even the Cottonwoods are drying up and losing their leaves.

All of this has tended to react unfavorably on travel to these parks, as persons throughout the state and throughout surrounding states have apparently had no desire to travel during such weather, and as a result, travel attendance, which started out during June and previous months to show a very marked increase over former years, has had a sudden drop until at present it shows but a ten per cent increase over last year.

100 Administration

110 - Status of Work. Field work is approximately to date, but office work is a week or ten days behind most of the time. The principal reason for this is the required procedure of administration whereby one office maintains separate records and accounts for two distinct parks, and accordingly doubles all office operations.

120 - Park Inspections

121 - By Superintendent. The Superintendent inspected each project under way at various intervals and in both parks. Four trips were made to Bryce Canyon during the month.

122 - By Special Field Representatives. Mr. H. B. Hommon of the United States Public Health Service made a thorough inspection of sanitation and water supplies in both parks, and separate reports of his inspections are being made by him for forwarding to your office.

123 - By Other Governmental Officers. Senator James Couzens of Michigan visited both Zion and Bryce Canyon in company with nine other members of his own family. Senator Couzen's trip was not official.

Secretary Hyde of the Department of Agriculture, accompanied by his executive assistant, Mr. Hoffman, Major R. Y. Stuart, Chief of the United States Forest Service, and Regional Forester R. H. Rutledge, were in both Zion and Bryce Canyon National Parks the 13th and 14th of July, during which time a conference was held with the Superintendent regarding the possible boundaries of the proposed Cedar Breaks National Monument.

124 - Congressional Committees. The Subcommittee on Appropriations for the Interior Department of the United States Congress was in the parks July 1 and 2 as previously reported to you in the June report. Director Albright was a member of this party.

Congressman C. Q. Tilson of Connecticut, who is a possible choice for Speaker of the House of Representatives during the next Congress, was in Zion on July 3 on a hurried semi-official inspection trip of the area.

125 - Equipment and Supplies. Zion National Park received a new Caterpillar Twenty tractor-grader, and at the same time transferred to Bryce Canyon Park the Caterpillar Thirty tractor and pull-type grader formerly used at Zion. Two Ford pick-up trucks were also received during July. Other small equipment received included 6 Bungalow folding cots with mattresses, 4 Coleman lanterns, 1 Lennox heating stove, 1 gasoline storage tank, 1 paint spray outfit, 3 dozen axes, 1 pack saddle and bags, 6 kerosene lanterns, and some miscellaneous small tools.

126 - Plans, Maps and Surveys. Mr. R. T. Evans of the U. S. Geological Survey returned to these parks to complete topographic mapping of each area which had previously been begun for Zion during the past two years. Field work for Zion is now completed and a start has been made on the work at Bryce. Preceding Mr. Evans' arrival a party of engineers started from Zion to establish a series of primary spirit levels showing accurate elevations between the two parks. It is interesting to note that until the arrival of this party there was no bench mark showing accurate elevation of any point in southeastern Utah east of Zion Canyon.

Mr. George Hopper, Topographic Engineer from Field Headquarters, has been engaged all month in making a detailed topographic survey of the headquarters area and the newly purchased area at Zion in order that a proper development study of these areas might be proceeded with.

200 Maintenance, Improvements and New Construction

210 - Maintenance. Continued dry weather has resulted in a great many slides on the sandstone slopes of Zion Canyon, with the resultant necessity for unusual maintenance work in removing them. All of these slides have been from the cut slopes and so far none have been from shoulder failures.

A considerable amount of maintenance has been done on all park trails, and at present they are in good shape with the exception of an accumulated dust problem.

230 - Construction. Road protection from the river work was completed July 25 insofar as this season's funds are available. Results of this year's work were approximately 1500 feet of rock basket dams and 2000 feet of channel clearing.

West Rim Water System. Five thousand feet of water pipe has been laid and a 1,000 gallon capacity concrete storage tank constructed at Angel's Landing. The water has been connected to a small natural rock fountain on the trail side.

Comfort Station at Zion. Actual construction of this building was started on July 27, the majority of the building stone being cut and on the ground previous to that time. At the end of the month excavation and foundation rock courses were completed.

Camp Ground Development. The south area of Zion campground previously covered with deep, sandy soil and not usable has been covered and mixed with clay soil in order to make it usable for camping and traversible by automobiles.

Trails at Bryce Canyon. The horse trail along the rim leading to Bryce Point has been completed and construction work on the extension of this trail into the canyon at Peek-a-boo Trail has started and is progressing satisfactorily.

Dormitory and Mess Hall. Stone foundations on each of these two buildings are practically completed and erection of the buildings is awaiting delivery of the material purchased for construction.

Oiling of Bryce Roads. The main roads of Bryce Canyon National Park have been thoroughly graded and given a dust-proof oiling and at present are in good condition.

Road Construction. Construction work under contract on projects 2A4A and 2B at Zion National Park is progressing at the same satisfactory rate which has occurred ever since the work began. A majority of the masonry wall work on

project 2A has been completed and about 53 per cent of the entire project has been paid for. Travel on the canyon road will be considerably interfered with from this date on as these two projects have reached a stage where it will now be necessary to cut into and out of the existing road.

At Bryce Canyon the Union Construction Company is showing satisfactory progress on their project 1A, the spur road to Bryce Point being well under way and at present roughly excavated for its entire distance. The spur to Inspiration Point is practically completed with the exception of graveling and a good proportion of the work has been accomplished on the main line of the road leading to Rainbow Bridge.

240 - Improvement of Approaches to Park. The placing of a permanent oil surface on the approach to Zion Park between Mt. Carmel Junction and our east boundary has been completed and there now exists there twenty miles of the best road surfacing in the state of Utah. The federal aid contract on highway 89 just south of Mt. Carmel Junction between that point and Kanab is gradually being completed and at present some sections are gravelled and detours are gradually being eliminated with travel using the new road.

260 - Landscape Work. Assistant Landscape Architect Langley has been in Zion and Bryce during the majority of the month and advised us on landscape problems in connection with construction work. The greatest landscape problem on our hands at present is that of designing a new main road, a portion of project 1A, where it approaches Bryce Canyon Lodge in order not to interfere with the canyon rim and still be satisfactory otherwise.

300 Activities of Other Agencies in the Parks

310 - Public Service Contractors. The Utah Parks Company continues to give first class service in hotel and transportation lines, but the sudden drop in travel has been disastrous to their business. At the end of July persons arriving by way of Utah Park stages totalled 36 per cent behind last year.

400 Flora, Fauna and Natural Phenomena

410 - Ranger Naturalist Service. The educational department, under Park Naturalist Woodbury, continued to conduct regular evening lectures at the lodges in both parks and at the camp ground in Zion, as well as field parties on the park trails in both areas.

500 Use of Park Facilities

510 - Increase or Decrease in Travel. Although previous travel reports indicated that these parks would show a tremendous increase in visitors, the hot, dry spell throughout the entire southwest has resulted in a sudden failure in recent travel and at present our increase is but slightly ahead of previous

years. Whether or not travel will again enlarge during the present season is not to be guessed at under existing conditions.

530 - Visitors. Dr. S. A. Barrett, Director of the Milwaukee Public Museum, arrived at Bryce Park on July 15 in company with an artist and photographer and considerable photographic paraphernalia, with the intention to spend one entire month in making paintings and moving pictures to be used in lecture work and in the arrangement of an exhibit at the Milwaukee Public Museum.

Dr. C. O. Schneider, an oculist of Chicago, has spent considerable time in both Zion and Bryce following his hobby of autocromes and arranging his collection of slides which he intends to use in lecture work already arranged for at the Field Museum at Chicago during the coming winter. Dr. Schneider is a recognized authority on autocrome work.

600 Protection

610 - Police Protection. Speeding and reckless driving along the Zion and Mt. Carmel road, and especially through the tunnel section, reached such proportions that it was necessary, despite our small ranger force, to assign a ranger for traffic patrol on that road. The tunnel has been kept free of picnickers and sight-seers staying unnecessarily long. Cars and trucks have been closely checked to see that their lights are in working order and in use and general supervision has been made of traffic. It has been necessary to give three individuals their choice of parking thirty minutes each along the roadside or being taken before the closest justice of the peace. All three chose the former punishment.

620 - Fire Protection. On July 19 a fire started by lightning burned over approximately one hundred acres of land behind the west rim of Zion Canyon. This fire brought up no particular problems and was extinguished by ten men who worked all through one night.

630 - Accidents. On July 25 Mr. Ronald Orcutt, twenty-four years of age, of Los Angeles, California, was killed while attempting to climb the Cathedral Mountain in Zion Park. Orcutt had, on June 30, been the first known person to climb Great White Throne, and had shown ability as a mountain climber. Evidences are that his death was entirely accidental. After three days attempting to get in touch with relatives it was found necessary for the Government to stand the cost of burial, and Orcutt's body was removed from the undertaking parlours in Cedar City and buried at the cemetery in Springdale, Utah. As Orcutt's ambition had been to climb the West Temple before the summer was over, it is exceedingly fitting that his body now lies at the foot of that peak.

On the same evening as park rangers were bringing in the body of Ronald Orcutt, Mr. Manuel Prenner of New York City climbed Mount Zion, or Lady Mountain,

opposite Zion Park Lodge and returning from the top after dark, missed his trail and became stranded on a high overhanging ledge where he could neither retrace his steps or descend. His cries for help were heard at the lodge and Assistant Superintendent Parker lead a party of park employees and hotel employees to his rescue. It was necessary to haul him back on the trail by means of long ropes and it was three o'clock in the morning before he was returned to the lodge. Outside of the excitement and a slight exhaustion Mr. Frenner was unhurt.

Very truly yours,

Thos. J. Allen Jr.
Superintendent

TRAVEL REPORT BY STATES FOR THE SEASON TO DATE, 1931 and 1930.
 ZION NATIONAL PARK, UTAH. JULY

STATE	1931				1930		1930	
	Cars	Pass	Stage	Misc	Cars	Pass	Cars	Pass
Alabama	0:	0:	4:	0:	0:	4:	4:	21:
Arizona	440:	1281:	2:	1:	440:	1284:	268:	804:
Arkansas	9:	23:	3:	0:	9:	26:	12:	39:
California	4592:	12429:	292:	3:	4592:	12724:	3201:	9278:
Colorado	310:	908:	18:	1:	310:	927:	232:	689:
Connecticut	19:	53:	15:	0:	19:	68:	16:	85:
Dist Columbia	22:	63:	21:	0:	22:	84:	12:	62:
Deleware	3:	12:	6:	0:	3:	18:	1:	5:
Florida	17:	53:	5:	0:	17:	58:	11:	39:
Georgia	8:	18:	4:	0:	8:	22:	5:	24:
Idaho	222:	686:	4:	2:	222:	692:	178:	569:
Illinois	178:	517:	79:	1:	178:	597:	144:	620:
Indiana	48:	135:	31:	2:	48:	168:	49:	186:
Iowa	74:	231:	26:	0:	74:	257:	75:	270:
Kansas	67:	185:	7:	0:	67:	192:	42:	156:
Kentucky	16:	43:	10:	1:	16:	54:	7:	41:
Louisiana	6:	21:	0:	2:	6:	23:	9:	36:
Maine	7:	19:	1:	0:	7:	20:	3:	20:
Maryland	12:	38:	9:	0:	12:	47:	8:	63:
Massachusetts	44:	109:	100:	1:	44:	210:	26:	219:
Michigan	87:	244:	50:	0:	87:	294:	84:	274:
Minnesota	72:	232:	18:	1:	72:	251:	58:	216:
Mississippi	3:	8:	1:	0:	3:	9:	9:	48:
Missouri	71:	197:	38:	2:	71:	237:	56:	218:
Montana	93:	262:	1:	0:	93:	263:	93:	275:
Nebraska	79:	252:	38:	0:	79:	290:	59:	222:
Nevada	322:	994:	0:	3:	322:	997:	209:	713:
New Hampshire	3:	5:	5:	0:	3:	10:	2:	27:
New Jersey	53:	163:	62:	3:	53:	228:	55:	250:
New Mexico	43:	122:	0:	0:	43:	122:	27:	74:
New York	158:	402:	229:	3:	158:	634:	101:	567:
N. Carolina	17:	67:	0:	0:	17:	67:	5:	22:
N. Dakota	12:	37:	0:	0:	12:	37:	20:	77:
Ohio	149:	455:	88:	2:	149:	545:	71:	319:
Oklahoma	55:	156:	1:	2:	55:	159:	31:	89:
Oregon	81:	199:	10:	1:	81:	210:	61:	180:
Pennsylvania	95:	258:	134:	0:	95:	392:	59:	346:
Rhode Island	6:	19:	6:	0:	6:	25:	5:	41:
South Dakota	24:	80:	5:	0:	24:	85:	11:	47:
South Carolina	1:	4:	5:	0:	1:	9:	4:	14:
Tennessee	7:	28:	4:	0:	7:	32:	11:	31:
Texas	129:	372:	8:	0:	129:	380:	117:	338:
Utah	4647:	16793:	59:	10:	4647:	16862:	4549:	18100:
Vermont	1:	2:	7:	0:	1:	9:	1:	5:
Virginia	8:	26:	8:	0:	8:	34:	3:	13:
Washington	146:	410:	11:	2:	146:	423:	140:	423:
West Virginia	4:	12:	25:	0:	4:	37:	3:	33:
Wisconsin	53:	159:	27:	0:	53:	186:	46:	216:
Wyoming	96:	265:	3:	5:	96:	273:	70:	231:
Alaska	1:	2:	0:	0:	1:	2:	0:	0:
Australia	1:	1:	2:	0:	1:	3:	1:	4:

Continued page two.

Belgium	0:	0:	2:	9:	0:	2:	0:	0:
Brazil	0:	0:	0:	0:	0:	0:	1:	4:
Canada	29:	74:	8:	0:	29:	82:	32:	76:
China	0:	0:	0:	0:	0:	0:	0:	1:
Czecho Slovakia . . .	0:	0:	1:	0:	0:	1:	1:	4:
Denmark	0:	0:	1:	0:	0:	1:	0:	0:
England	0:	0:	7:	0:	0:	7:	1:	13:
France	1:	2:	1:	0:	1:	3:	0:	2:
Hawaii	5:	12:	9:	0:	5:	21:	9:	21:
Holland	0:	0:	1:	0:	0:	1:	0:	3:
India	1:	2:	0:	0:	1:	2:	1:	4:
Japan	0:	0:	1:	0:	0:	1:	0:	1:
Mexico	2:	8:	0:	0:	2:	8:	1:	2:
Panama	3:	11:	0:	0:	3:	11:	3:	4:
Phillipine Island :	2:	11:	0:	0:	2:	11:	0:	0:
Porto Rico	1:	2:	0:	0:	1:	2:	0:	0:
Scotland	0:	0:	1:	0:	0:	1:	2:	6:
South Africa	1:	2:	2:	0:	1:	4:	0:	0:
South America	2:	8:	0:	0:	2:	8:	1:	3:
South Wales	0:	0:	1:	0:	0:	1:	0:	0:
Sweden	0:	0:	2:	0:	0:	2:	0:	0:
Germany	0:	0:	0:	0:	0:	0:	4:	19:
Italy	0:	0:	0:	0:	0:	0:	0:	2:

Total..... 12658: 39182: 1519: 48: 12658: 40749: 10320: 36804

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

BRYCE CANYON NATIONAL PARK, UTAH

TRAVEL REPORT CLASSIFIED BY STATES FOR THE MONTH OF JULY, 1931

State					Total		1930 Total	
	Cars	Pass.	Stage	Misc.	Cars	Pass.	Cars	Pass.
Alabama			4		4		1	11
Arizona	49	151			49	151	58	87
Arkansas	1	3			1	3	1	3
California	936	2726	136		936	2862	1022	3229
Colorado	64	207	10		64	217	82	275
Connecticut	12	33	9		12	42	13	64
Dist. Columbia	10	32	13		10	45	12	60
Delaware	3	14	6		3	20	2	6
Florida	4	8	4		4	12	1	7
Georgia	1	2	4		1	6	3	16
Idaho	40	147	1		40	147	37	134
Illinois	54	157	62		54	219	65	318
Indiana	26	73	20		26	98	14	55
Iowa	25	79	16		25	95	26	104
Kansas	13	42	2		13	44	21	69
Kentucky	4	11	13		4	24	6	22
Louisiana	2	5			2	5	3	9
Maine	2	7	3		2	10	1	11
Maryland	4	10	7		4	17	4	56
Massachusetts	19	43	54		19	97	12	126
Michigan	33	99	40		33	139	40	145
Minnesota	13	49	7		13	56	13	49
Mississippi	5	7	2		5	9	2	8
Missouri	26	85	18		26	103	27	129
Montana	12	38			12	38	17	51
Nebraska	20 12	70	18		12	88	24	100
Nevada	53	177			53	177	47	176
New Hampshire			5			5		6
New Jersey	16	53	43		16	96	25	134
New Mexico	10	32			10	32	8	29
New York	49	149	153		49	302	43	369
North Carolina	3	9			3	9	2	8
North Dakota	1	3			1	3	9	34
Ohio	52	154	40		52	194	49	272
Oklahoma	14	40			14	40	17	46
Oregon	22	63	7		22	70	24	82
Pennsylvania	29	94	80		29	174	30	219
Rhode Island	2	7	4		2	11	2	23
South Carolina			5			5	2	8
South Dakota	5	17	1		5	18	6	21
Tennessee	3	9	4		3	13	2	7
Texas	35	98	7		35	107	46	118
Utah	868	3422	12		868	3434	1051	4324
Vermont			2			2	3	13
Virginia	1	5	9		1	14	2	8
Washington	40	129	8		40	137	45	137
West Virginia	2	4	7		2	11		8

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Travel report, Zion National Park for the month of July, 1931.

	1931.		1930		1929.		Inc. for year.	
	: Month:	Year:	: Month:	Year :	: Month:	Year:	Number:	Per cent
<u>PRIVATE TRANSPORTATION:</u>								
Cars first entry	: 3296 :	11593 :	3479 :	8961 :	1727 :	4778 :	2632 :	29.3%
Cars reentry	142 :	1050 :	239 :	1349 :	312 :	792 :	299 :	22.1% de.
Motorcycles	: 5 :	15 :	5 :	10 :	2 :	6 :	5 :	50% inc.
TOTAL MOTOR VEHICLES	: 3443 :	12658 :	3723 :	10320 :	2041 :	5776 :	4181 : 2338 :	13.9% : 22.6% inc.
Persons entering via motor vehicles.	: 11133 :	39162 :	12186 :	34381 :	6760 :	18786 :	4781 :	13.9% inc.
Persons entering via other transportation . . .	: 7 :	20 :	6 :	12 :	3 :	9 :	8 :	66.6% inc.
TOTAL PERSONS ENTERING VIA	: 11140 :	39182 :	12192 :	34393 :	6763 :	18795 :	4781 :	13.9% inc.
Other TRANSPORTATION	: 11140 :	39182 :	12192 :	34393 :	6763 :	18795 :	4781 :	13.9% inc.
<u>OTHER TRANSPORTATION:</u>								
Persons entering via stage	785 :	1519 :	1486 :	2388 :	1778 :	3187 :	869 :	36.3% de.
Persons entering otherwise	12 :	48 :	3 :	23 :	5 :	28 :	25 :	108.6 inc.
TOTAL OTHER TRANSPORTATION:	797 :	1567 :	1489 :	2411 :	1783 :	3215 :	844 :	35% de.
GRAND TOTAL ALL VISITORS	11937 :	40749 :	13681 :	36804 :	8546 :	22010 :	3945 :	10.1% inc.

		Increase	
	: 1931 :	1930 :	Number : Per cent
Automobiles in public camp during month	951 :	907 :	44 : 4.8%
Campers in public camp during month	3292 :	3836 :	544 : 14.1 de.
South entrance Cars	1700	People	6292.
East entrance "	1743	"	5645.
TOTAL	3443		11937.

Business cars 219,
Pleasure cars 3224. Commercial trucks passing through park 520.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

JULY
TRAVEL REPORT FOR BRYCE CANYON NATIONAL PARK, UTAH, FOR THE MONTH OF ~~JUNE~~
1931

	This Month : Year : To Date	This Travel : Year : To Date	This Month : Last : Year : To Date	Last Travel : Year : To Date	Increase for : Travel Year : Number	PerCent
<u>PRIVATE TRANSPORTATION:</u>						
Cars first entry	2616	: 7772	: 2975	: 6467	: 1305	: 20.1
Motorcycles	2	: 5	: 2	: 2	: 3	

Total private trans- portation	2618	: 7777	: 2978	: 6469	: 1308	: 20.2
Persons entering via motor vehicles.	8689	: 26554	: 9915	: 20572	: 5982	: 29.0
Persons entering via other private transportation . . .						

Total persons entering via private transportation	8689	: 26554	: 9915	: 20572	: 5982	: 29.0
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages	364	: 1341	: 1480	: 2180	: 839	: 38.4
Persons entering otherwise		: 6	: 4	: 4	: 2	

Total other transportation	364	: 1347	: 1484	: 2184	: 837	: 38.3

GRAND TOTAL ALL VISITORS	9553	: 27901	: 11399	: 22756	: 5145	: 22.6

Cars and people using public auto camp: Cars 812 People 2647

Critchlow
Park Ranger

WEATHER REPORT AT SPRINGDALE FOR THE MONTH OF JULY 1961

TEMPERATURE:

Mean Maximum	101.9
Mean Minimum	72.67
Mean	87.39-
Maximum	109; date 26th
Minimum	61; date 4 and 31

PRECIPITATION:

Total23 inches
Greatest in 24 hours16 date 19th

NUMBER OF DAYS-

With .01 inch or more precipitation, 2.
Clear, 9; partly, 6; cloudy, 16.

Harold Russell
Cooperative Observer.

10-159
(May, 1931)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Zion National Park for the Month of July, 1931

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	22	68	18	52
Number of additions	1	22		42
Total	23	90	18	94
Number of separations		8		29
Number of employees close of month	23	82	18	65
Number of promotions during month	00		4	
Aggregate amount of annual leave taken	1			
Aggregate amount of sick leave taken	1			
Aggregate amount of leave without pay			11	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Zion National Park for the Month of July, 1931

	This Year	Last Year
Park revenue on hand beginning of month,	775.00	00.00
Received,	<u>3,240.00</u>	<u>3,531.00</u>
Total,	4,015.00	3,531.00
Remitted,	<u>3,538.00</u>	<u>3,531.00</u>
On hand close of month,	<u>477.00</u>	<u>00.00</u>

Park revenues received this year to date,	3,240.00
Park revenues received last year to date,	3,531.00
Increase,	<u>- 291.00</u>
Percent of increase,	<u>.089</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Zion National Park for the Month of July, 1931

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date Completion
Road protection	¹⁰⁰ 90	¹⁰ 20	²⁰ 10	Sept. 1
Post construction	⁷⁰ 60	30	20	Oct. 1
Trail construction	⁴⁰ 40	20	20	Oct. 1
Oiling roads	100	100	--	--
Dormitory	⁵⁰ 30	10	20	Oct. 1
Mess house	⁵⁰ 30	10	20	Oct. 1
Comfort station	⁷⁰ 40	20	20	Oct. 1
Campground development (Zion)	90	40	10	Oct. 1
Campground development (Bryce)	75	40	10	Oct. 1
Improving grounds	50		40	Nov. 1
Extension water system	50		10	Nov. 1
Extension sewer system	50		10	Nov. 1