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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK

FILE NO.

MONTHLY REPORT

March, 1931.

✓	TOLL	
✓	EDWARDS	
✓	JOFFE	
✓	HUNDLEY	
✓	PAGGLEY	
	HILL	
	HICKMAN	
	WEAGER	
	BROWN	
	GOODLIGH	
	LORD	
	ANSWERED BY	
	FILE	

IMPORTANT

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HORACE M. ALBRIGHT,
Director.

U. S. GOVERNMENT PRINTING OFFICE: 1929 6—7410

April 3, 1931.

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

Dear Mr. Director:

Following is a report of the activities of the Yellowstone National Park for the month of March, 1931:

000 - General

The month of March was up to its old tricks with a variety of weather, both the early and late parts representing the lion more than the lamb. The worst storms of the entire winter were experienced during the month and the lowest temperature represented during the winter, 6° below zero, occurred on the night of the 25th.

020 - General weather conditions

021 - In the park (Mammoth Hot Springs): The month was nearly, but slightly above, normal in temperature, with a mean of 26.8°. This was a little warmer than March of 1930, but cooler than March 1928 and 1929. With a minimum of -4°, the thermometer dropped below 0.0, or zero, on 5 days. On 25 days of the month it rose above the thawing point, the maximum being 53° on the 31st. Cold spells run from the 4th to 8th and from the 24th to 27th. The temperature observations of the month just completed provide little that is of any special interest. Precipitation continued light. The month total, 0.30 inch, was 0.22 inch under the normal. It was light for the month, but several Marches have had less; viz, 1899, 1909, 1914, 1922, 1925, 1927. The total snowfall was 11.5 inches. All went off during the month and at 6 p.m. of the 31st a snow depth on the ground of 0.0 inch was recorded. The greatest daily fall was 5.0 inches, on the 4th and 22nd. The greatest daily precipitation; i.e., rain or melted snow, was 0.22 on the 22nd. Wind velocity averaged 8.5 miles per hour. A maximum of 50 miles an hour, from northwest, occurred during the continuous strong wind movement of the 25th. Sunshine averaged 41 per cent of possible.

The heaviest snowstorm this winter since last November, and which would be classed as a light snowstorm in a normal winter, hit the interior of the park on March 21st. Bechler River showed a fall of 11 inches and Sylvan Pass 8 inches; other points throughout the park less. Precipitation was below normal. A high temperature of 55° above was reported on the Buffalo Ranch March 3rd. On this date the ice from the Lamar River started to go out but cold weather a few days later froze it over again. Snow depths at the various ranger stations and other points over the park, as compared with 1929 and 1930, are as follows:

	Inches		
	1929	1930	1931
Buffalo Ranch	15	13	10
Soda Butte	16	17	22
Cooke	20	33	24
Tower Falls	14	12	8
Old Faithful	33	36	12
Lake	34	35	19
Thorofare	30	45	
Hellroaring	10	2	
Norris	30	37	17
Canyon	33	41	23
Riverside	30	26	14
Gallatin	21	40	23
Sylvan Pass	30	33	12
Snake River	37	38	40
Bechler River	54	43	43
Upper Slough Creek	24	16	14
Lower Slough Creek	20	10	
Sportsman Lake			32
Miller Creek Cabin			22
Cache Creek Cabin			32
Cascade Cabin			35
Heart Lake Cabin			22
Six Mile Post (W.T.road)			33
Hareboll			24
Grayling Cabin			18
Madison Junction			12
Fountain			12
Pelican Creek Cabin			21

022 - In Approaches to the Park

The road from Livingston to Gardiner was open during the entire month and in very good condition. The road from Cody to Sylvan Pass has been open during the month, with 12" of snow at Sylvan Pass at the end of the month. The Ashton-West Yellowstone road is closed to travel but

at the present time the Idaho Road Commission has their snow plow in operation and this section of road will probably be open about April 5. The train service was resumed to West Yellowstone when the Union Pacific snowplow opened up the branch line from Ashton to West Yellowstone, arriving at the latter point on March 28. All roads at the present time south of the park are blocked with snow, although it is believed that roads to Moran will open up at an early date.

023 - In nearby states

Snow conditions and precipitation in nearby states are practically the same as in Yellowstone.

100 - Administration

110 - Status of work

An epidemic of flu occurred in the park during the latter part of the month and about a third of the residents were ill. Several persons in the office were on the sick list, and the work was somewhat handicapped but by the end of the month most of it was current.

Disbursing Officer Leroy Hill returned to the park on the 31st, after two months' leave spent on the west coast. We are glad to say that Mr. Hill's health is considerably improved, but his condition does not yet permit of his carrying on the strenuous work of his desk. An effort is being made to have him retired on account of disability, he having served 38 years as a Government employee, about 24 of which were spent in the Yellowstone.

120 - Park inspections by

121 - Acting Superintendent

Acting Superintendent Edwards made the usual inspections of the work around headquarters, and the 2nd, 3rd and 4th, in company with Chief Ranger Buggley, visited the Lower Slough Creek Ranch with a view to tagging elk. From the 17th to the 23rd, inclusive, a trip was made by car to Spokane, Washington, to attend a meeting of the Western Washington Forestry Association and to observe road conditions. On the 30th Mr. Edwards and Assistant to the Superintendent Joffe attended a joint meeting of the Livingston, Montana, Rotary, Kiwanis and Business and Professional Women's Clubs in Livingston.

123 - National Park Service Officers

Mr. R. H. Madsen, Assistant Land Purchaser for the National Park Service, who handles game matters, visited the park on the 23rd, after having attended the Casper, Wyoming, meeting of the Wyoming Division of the Izaak Walton League. He spent the night of the 23rd at Mammoth and left the following day for Helena and Salt Lake City.

140 - Labor Situation

An unusually large number of applications are being received for work during the summer, and while none of the park roads are open quite a few men have come to headquarters seeking employment. There is no question but what there will be far more men seeking work than there will be positions to fill, and it has been necessary to turn down some excellent applications for ranger and ranger-naturalist work on account of the few vacancies existing. The selection of these forces was made during the month, considerably earlier than in former years. The large number of applications being received reflect the conditions throughout the country.

170 - Plans, maps and surveys (See 300)

180 - Circulars, placards, publicity bulletins, etc.

Circulars Nos. 2 and 3 were issued during the month, and four publicity stories for the press were sent out, copies of each being attached hereto. Also, the March Nature Notes were issued and distributed and a copy is attached.

300 - Maintenance, Improvements and New Construction

Activities in the Engineering Department for the month consisted of the following: The month was given over entirely to office work, consisting of the preparation of work plans and estimates for the work of the coming season and the listing of material and supply needs for the programmed construction projects. A small amount of draughting and estimate work was done for other departments.

Beginning on the 23rd, one man was employed for the balance of the month on Project 525.5 - Signs, cutting and painting posts and mounting signs so that the stock of signs now on hand may be erected as soon as weather conditions will permit.

320 - Improvements

Carpenter Shop: The work of this department consisted mainly of repair work on buildings at Mammoth. Several days were spent fixing up the new meathouse, and some work was also done in the telephone office. About 14 days were spent on E.P.W. buildings.

Paint Shop: The employees of this department were engaged in miscellaneous jobs around headquarters, such as painting, kalsomining and waxing and oiling floors. Some work was also done on the E.P.W. buildings. Part of the month was devoted to sign painting and laying linoleum.

Electrical Department: The Chief Electrician was on sick leave part of the month, and the remainder of the month was spent doing odd jobs in quarters at Mammoth, and preparing reports.

part of the south, and the remainder of the north was about doing all
jobs in quarters at Dunmouth, and marketing it etc.

Garage: The following is a report on the trucks and equipment which have been thoroughly overhauled, serviced and made ready for use to date:

35 Motor Trucks. This leaves us 4 trucks yet to be worked over. Six assorted size trucks will be traded in this season. Two Mack 5½ ton trucks will not be overhauled this year.

18 - 1/4 ton trucks. This leaves us 1 truck yet to be overhauled.

3 - passenger cars, leaving 1 car yet to be overhauled.

2 - motorcycles, leaving 2 to be overhauled - 1 to be traded in.

8 motor patrol road graders; 4 are partially worked over and now waiting for parts, leaving 1 to be overhauled.

3 tractors, leaving 1 farm tractor to be overhauled.

6 fire pumps.

2 air compressors are yet to be overhauled.

6 power drawn road graders.

2 4-wheel trailers have been manufactured for fire use.

2 concrete mixers - 1 yet to be overhauled.

1 drag wood saw.

1 power driven sludge pump.

16 dump wagons; 4 yet to be worked over.

1 Erie steam shovel. Osgood gas shovel yet to be serviced.

1 paint machine yet to be worked over. 1 steam oil pump yet to be worked over.

In addition to the above, 1 Ford truck for Herb Meier and 1 Ford truck for the R.P.R. are in the shops, and 1 insect control tree spraying truck for minor repairs.

Painted 7 patrol graders, 2 trucks and 2 trailers. We also plan on painting all equipment "Park Service Green" before the working season.

Sanitation Department: The work of this department consisted of the following: Maintenance of Mamoth water and sewer systems. Operated 8 heating plants for heating Administration Building, garage and employees' quarters. Made 32 Sibley stove pipe of 20-gauge sheet steel, 7'3" long, with heavy rings riveted on one end. Repaired 10 field ranges and 41 Sibley stove pipes. Other work consisted of repairs in various quarters at Mammoth, such as installing a Majestic hotel range in summer mess, repairing stove pipes, repairing valves and hot water faucets, setting up 2 heating stoves in paint shop, repairing tin shingles on commissary, making 4 sheet metal chimneys for the E.P.S. portable houses and changing six fire extinguishers.

300 - Activities of other agencies in the park

310 - Public service contractors

Mr. George Whittaker operated his Mammoth store for the convenience of Mammoth residents and received the bulk of the business from our people. Mr. Whittaker has brought his prices down to a point where our people have found it advantageous to purchase from the local store and there has been no criticism of the service rendered.

Word was received that Mr. F. M. Nichols had been elected President of the Yellowstone Park Hotel Company and the Yellowstone Park Transportation Company.

Mr. R. H. Moorman, General Manager of the Yellowstone Park Lodge and Camps Company, visited the park twice during the month in connection with the construction of a new boiler house and laundry for the Mammoth Lodge, the old building having been destroyed by fire early in the winter.

400 - Flora, fauna, and natural phenomena

410 - Ranger, naturalist and guide service

The usual ranger activities were carried on during the month of March, which consisted mainly of patrols for the protection and observation of the Yellowstone wild life. Skiing patrols were made extremely difficult due to the warm weather and light snowfall. The cooperative reports for the various cooperative bureaus were submitted by the various rangers. There was no monthly game census taken during this month due to the weather conditions, causing us to believe that a count would be very unsuccessful. However, a count will be undertaken at a very early date provided weather conditions are favorable. Several of the rangers were on leave during the month and have returned. Several others are on leave at the present time.

Acting Superintendent Edwards, Chief Ranger Baggley and William Rush drove to Lower Slough Creek by team on March 2nd, staying at Slough Creek on the 3rd and returning to Mammoth on the 4th.

The Chief Ranger and the Master Plumber finished their Mammoth fire inspection on the afternoon of March 6.

From March 12 to 15 inclusive the Chief Ranger was on an inspection trip over the northwest corner of the park, that is in the Gallatin section, traveling by skiis. Skiing conditions were found to be very poor but other conditions in this area were found to be in excellent shape.

The Chief Ranger was in attendance at the State Convention of the Izaak Walton League, held in Casper, Wyoming, on March 20 and 21. He returned to Yellowstone on the 24th. Following Mr. Baggley's return to Yellowstone he was taken sick and was on sick leave until the 28th inclusive.

430 - Museum Service (Educational Division)

The work of the Educational Department has progressed steadily during the past month. The current issue of Nature Notes was completed and 557 franked on the 31st. The photographic project has received concentrated attention, and approximately three weeks work remains before it is complete. Several valuable accessions have been received by the museum, among them two mounted marten for the Fishing Bridge Museum. The Ranger Naturalist staff has been selected and the necessary forms, etc., sent to the applicants. Considerable time has been spent in the preparation of labels for the nature trails. All members of the museum staff have been on duty in Yellowstone throughout the entire month.

440 - Insect Control

During the month of March Fred T. Johnston, Forest Assistant, has been busy in the office working out the project instructions for the Bechler River insect control project. A considerable time was spent in outlining and ordering the necessary equipment to be used on this control work. All equipment was ordered through the Forest Service at Ogden, Utah. Two field maps were also prepared for use at the Bechler River project. Also several days were spent in preparing and revising the instructions for the type map survey.

We are planning on sending Mr. Johnston to the Madison Forest Personnel Training School on insect control, to be held at Dillon, Mont. This school should commence on April 7th. The Chief Ranger was also planning on attending this school but it is believed due to necessary duties in Yellowstone that he will be unable to attend.

430 - Animal disease control

The 6 fawns that were treated in January and February are at the present time noted to be in excellent condition. Nothing else of interest to be added here.

460 - Birds

Spring and summer birds are being reported seen from all points in the park. Eagles, golden and bald, are being seen in large numbers, and along with the magpies and ravens are making a good job of cleaning up any dead animals that are found. The usual numbers of ducks and geese are prevalent over the park, and in the Lake District it is estimated that there are about 3,000 ducks, 200 geese and 40 swans. Following is a list of the summer birds, showing the places where seen and the dates:

Kind	Place	Date Seen
Bluebirds	Mammoth	March 12
"	Buffalo Ranch	" 13
"	Tower Falls	" 14
"	Game Preserve Ranch	" 14
"	Snake River	" 15
"	Gallatin	" 21
Redwing, blackbirds	Mammoth	" 15
" "	Tower Falls	" 15
" "	Snake River	" 25
" "	Duck Creek	" 16
Meadow larks	Game Preserve Ranch	" 16
Robins	" " "	" 16

470 - Animals

Forage conditions for the past month have been very good for our wild game. Green grass is beginning to show up and the bare hillsides are causing them to drift to higher points, although no great drift has been noted to date. As noted elsewhere in this report, no census was taken during the month of March.

Elk: The elk were observed over the entire park and their condition was noted as very good. These animals have left the Gose Ranch, on March 10. Their trail shows their drift to be west of Sepulcher Mountain on the Geese Creek-Glen Creek Divide. Feeding of elk at the Lower Slough Creek Ranch was carried on during the entire month. Thirty-seven tons of hay were fed at this ranch. On March, the 3rd, 700 elk were being fed on Lower Slough Creek but the last of the month this herd had dwindled to 150. The first elk to shed antlers was at Yancey's on March 6th, the next being at Tower Falls on the 14th. A few counts of elk were made by rangers while on patrol during the month, as follows:

Riverside	24
Gardiner	275
Norris	15
Upper Slough Creek	86
Lower Slough Creek	130
Lechler River	50
Gallatin	166
Mammoth	350

Deer: These animals are noted to be in very good condition, which is accounted for in the excellent forage obtainable during the month. Ticks are noted to be bothering the deer but to no great extent. The largest count of deer for the month is as follows: Game Preservation Ranch 326; Gardiner 49; Old Faithful 17; Cottonwood Basin 62. There are deer scattered over the entire northern section of the park, and a count of these animals will be undertaken at an early date.

Moose: As noted in last month's report an accurate count of moose is an impossibility this year. However, the following numbers as submitted by the ranger force are considerably better than previously reported:

Grayling	8
Specimen Creek	1
Sportsman Lake	1
Lechler River	3
Snake River	9
Upper Slough Creek	6
Tower Falls	5
Crescent Hill	2

Numerous signs of moose have been noted on Middle Creek in the Sylvan Pass District and in the vicinity of Old Faithful. It is also estimated that in addition to the 9 actually seen at Snake River there are 20 of these animals in this district.

Antelope: No noticeable drift of antelope has been noted and these animals may be seen all over the section between Mammoth and Gardiner. A count on March 17 disclosed a total of 489 in the vicinity of Gardiner and the Game Preservation Ranch. Another count on the Game Preservation Ranch on March 30 disclosed 294 in that territory. Feeding of antelope was discontinued on March 18. Their condition is noted as excellent and forage conditions are good. Three tons of hay were fed to the antelope during March.

Sheep: All sheep seen during the month were noted to be in fair condition and forage conditions are good. The largest count for the month was 33, 26 in the Gardiner District and 14 at Junction Butte.

Buffalo - Lamar River Herd: Six hundred seventy-four of the older buffalo are being fed daily at the Buffalo Ranch and are noted to be in good condition. Two hundred ten calves have also been fed daily and have

come through the winter in splendid condition. The hay at the Buffalo Ranch is about used up with only enough left to run for about 10 days in April. On March 19, a month earlier than usual, a calf was born but it was short-lived as the coyotes made away with it the following night. It should be noted here that another buffalo has been wintering on Glen Creek. This buffalo is one of the animals that was in the show herd at the Buffalo Corral in Mammoth last summer. It was almost impossible last fall when the buffalo were liberated from this pasture to force this one animal through the gate as he seemed disinclined to move beyond Mammoth, and it is probably this same animal which is now wintering on Glen Creek.

Buffalo - Cold Creek-Pelican Creek Herd: The rangers in the Southern District report seeing two buffalo in Pelican Meadows, and two on the Mist Creek Meadows. Nothing more of interest to report on this herd.

Smaller Animals: From signs seen throughout the park marten, squirrels and rabbits are plentiful. The beaver in the Bechler River country are cutting small lodgepole pine for food, which should be noted is very unusual in this case as willows are still available. Beaver are working in all open streams in the Gallatin District. The first woodchucks seen were in Mammoth on March 15.

Bears: Grizzly bear tracks were seen at the Canyon on February 27. The first sign of bear was at Mammoth on March 4. It was evident from the looks of the garbage cans in Mammoth on the morning of March 10 that summer was not far off as the bears had turned over and gone through everything that was in those cans, scattering it over the surrounding country. Since then bears are noted to be out at Old Faithful, Tower Falls, Upper Slough Creek and the Lake.

The following table gives the loss of game animals in Yellowstone National Park during the winter of 1930-31 other than those shipped or slaughtered:

Location	Elk	Bear	Antelope	Sheep	Bear	Buffalo	Moose
Game Preservation Ranch	3	6*	4 /				
Mammoth		5			8 xx		
Hellroaring		4					
Cottonwood Basin		2					
Tower Falls	2	2					
Gardiner			9 //	1 x			3°
Soda Butte	1					1	
Lower Slough Creek	3						
Upper Slough Creek	4						
West Thumb	1						
Thorofare							2°
Gallatin							3°
Riverside							1°
Buffalo Ranch						9	
Total	14	19	13	1	8	10	9

*3 shot and carried off ranch at night. 2 killed by automobiles.
//Coyote kills. xKilled by automobile. xxLoss over entire park;killed by car or shot. ~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~ °Illegal kills outside park.

Buffalo and Other Ranch Activities: For the past month activities consisted mainly of feeding, observing and caring for wild animals. Seven hundred eighty elk were being fed on the Lower Slough Creek Ranch on March 3, and at the end of the month only 150 at this ranch. Forty-seven tons of hay were fed to these elk at Lower Slough Creek. Antelope on the Game Preservation Ranch were fed on March 18, 47 tons of hay being fed on this ranch during January, February and March. The horse herd at the Yancey Ranch has been fed daily and are in good condition. At the Buffalo Ranch 9-1/4 tons of cottonseed cake and 135-1/2 tons of hay were fed to 674 buffalo which were on the feed grounds in addition to the 210 calves which are being fed daily in the corrals; 2170# of oats were fed at this same ranch to the work stock during the month.

480 - Natural Phenomena

The month of March was marked by an increase in most of the springs on the Mammoth formations. Hymon Terraces, both old and new, however, have decreased to an appreciable degree. No change was noted in either Mound or Minerva Terrace. Jupiter is approximately the same as when last observed, but Blue Springs have increased to a great extent and are now more beautiful than they have been for many months. Both Old and New Angel Terraces show an increase as does Cleopatra. March marks the second anniversary of the rejuvenation of Dima, and it is truly a wonderful sight at the present time, growing larger each month. Narrow Gauge Terrace is dead but the new springs which have broken out in the vicinity are increasing in activity. At the present time all the water from these springs is running in an easterly direction.

300 - Use of Park Facilities by the Public

310 - Increase or decrease in travel

All entrance and exit travel during the past month was via the north gateway. Sunday travel was not up to last month due to weather conditions over the week-ends. Travel is noted as follows: Cars 88; Visitors 265. Travel to date consists of 5527 visitors, traveling in 1573 cars, as compared with 4244 visitors traveling in 1490 cars last year and 3242 visitors traveling in 1000 cars in 1939. Pre-season travel to date as compared with travel to the same date last year shows a gain of 1283 visitors, or 30%.

330 - Visitors

Dr. and Mrs. J. M. Hamilton, Bozeman, Montana; Dr. Hamilton is Dean of Men at the Montana Agricultural College at Bozeman. They came in on March 20. Dean Hamilton has been a friend of the park of long standing and is particularly interested in its history. He has a splendid library of park literature.

On March 12 Mr. C. A. Snyder, Montana Plant Superintendent for the Mountain States Telephone & Telegraph Company, accompanied by a Mr. Hounan of the same company and Mr. Harry Fuqua, Manager of the Livingston office of the company, came to the park in connection with the outfitting of a new office for their operations at Mammoth.

630 - Accidents

On March 7, Park Ranger W. L. Arnold, who is stationed at Tower Falls, slipped off the hay rack while feeding the horse herd at the Yancey Ranch. Mr. Arnold fell on his head and has been incapacitated for duty since that date. We believe that he will be able to return to duty in the very near future.

640 - Destruction of predatory animals

To date 85 coyotes have been destroyed, 8 being killed in the past month. Bids were sent out for the second sale of coyote hides to be opened on March 25, but none were received. The fur dealers in view of the small number of pelts offered for sale did not deem it advisable to travel to Mammoth to inspect these hides. We will within a few days make up bids for the hides we have on hand and it will probably be necessary that we take them to Livingston for disposal.

900 - Miscellaneous

Hospital and Medical Service: Dr. P.L.Gaillard, Resident Physician, reports as follows: Office visits 14; home visits 173; one call of 120 miles.

Post Office: The work in the post office was on a winter basis, and there is nothing unusual to report.

Church Services: Methodist services were held in the Lodge Room evening of Wednesday, March 11th, by Rev. Otto G. Ponath, and Sunday evening, March 22nd, Episcopal services were held by Rev. L. D. Smith

Word was received through a press dispatch that T. E. Keefe, Superintendent of hotels in the park for 18 years, passed away at Byron Springs, California, on March 3. He died of pneumonia at the age of 55.

On March 6 we received the sad news that Mrs. John Bauman, wife of Park Ranger "Scotty" Bauman, died at her home in Minnesota after an illness of several months. The Baumans were married last fall and Mrs. Bauman was taken sick shortly after the marriage and was with her husband but a few days when she was taken to the hospital at Livingston. Mr. Bauman was ill in a hospital at Idaho Falls, Idaho, when he received the news of his wife's death and was unable to even attend the funeral.

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Very truly yours,

Guy D. Edwards
Acting Superintendent.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of MARCH, 1951

	This Month	This Month Last Year
Number of employees beginning of month,	71	76
Number of additions, ...	0	2
Total, ...	71	77
Number of separations, ...	0	1
Number of employees close of month, . .	71	76
Number of promotions during month	1	0
Aggregate amount of annual leave taken,	116	76
Aggregate amount of sick leave taken,	54	23
Aggregate amount of leave without pay,	10-3/4	--
" " military leave		0

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the month of _____

	This Month	Last Month
Number of employees beginning of month	85	85
Number of additions		
Total	85	85
Number of separations		
Number of employees close of month	85	85

Number of promotions during month

Total number of annual leave taken 112

Average number of sick leave taken 4

Average number of leave without pay 10-31/

Remarks

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(JULY 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE National Park for the month of AUGUST, 1931

	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, ...	82	1768	90	1366	402	29
Cars reentry, ...		104		124	20	-16
Motorcycles, ...		1				100
Total motor vehicles, ...	88	1873	90	1490	383	26
		1921				
Persons entering via motor vehicles, ...	263	5527	260	4244	1283	30
Persons entering via other private transportation, ...						
Total persons entering via private transportation, . . .	263	5527	260	4244	1283	30
OTHER TRANSPORTATION:						
Persons entering via stages, .						
Persons entering via trains, .						
Persons entering otherwise, . .						
Total other transportation, .						
GRAND TOTAL ALL VISITORS, . . .	263	5527	260	4244	1283	30

	This Year	Last Year	Increase	
			Number	Percent
Automobiles in public camps during month, ...				
Campers in public camps during month, ...				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

_____ National Park for the month of _____, 19__

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
PRIVATE TRANSPORTATION:						
Persons first entry.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Persons reentry.		[illegible]		[illegible]	[illegible]	[illegible]
Motorcycles.		[illegible]				[illegible]
Total motor vehicles.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Persons entering via motor vehicles.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Persons entering via other private transportation.						
Total persons entering via private transportation. . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OTHER TRANSPORTATION:						
Persons entering via stages						
Persons entering via trains						
Persons entering airplanes.						
Total other transportation.						
GRAND TOTAL ALL VISITORS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	This Year	Last Year	Increase Number	Increase Percent
Number in public camps during month.				
Nights in public camps during month.				

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

[illegible] National Park for the Month of [illegible], 1931.

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion

No change in projects.

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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

YELLOWSTONE National Park for the Month of MARCH, 1931.

	This Year	Last Year
Park revenue on hand beginning of month, ...	None	None
Received, ...	$32.80	$700.47
Total, ...	$32.80	$700.47
Remitted, ...	$32.80	$700.47
On hand close of month, ...	None	None

Park revenues received this year to date, ...	$ 247,732.40
Park revenues received last year to date, ...	$ 290,415.67
Increase, ~~xxxxxxxx~~ Decrease	$ 42,683.27
Per cent of increase, ~~xxxxxxx~~ decrease	11

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of August,

	This Year	Last Year
Park revenue on hand beginning of month,	None	None
Received,	[illegible]	[illegible]
Total,	[illegible]	[illegible]
Remitted,	[illegible]	[illegible]
On hand close of month,	None	None

Park revenues received this year to date,	[illegible]
Park revenues received last year to date,	[illegible]
Increase,	[illegible]
Per cent of increase,	[illegible]

10-162

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of MARCH, 1931

	This Month	This Month Last Year	Increase	Percent Increase
OCAL BUSINESS				
iles of circuit maintained	528	528	0	.0
o. of telephones connected	177	162	15	.09
o. of measured service calls				
o. of other local calls				
otal No. of local calls	3528	2952	576	.18
eak load in calls per day	165	146	21	.14
eceipts from measured service calls				
eceipts from coin boxes				
eceipts from telephone rental				
TOTAL RECEIPTS				
ONG DISTANCE BUSINESS				
o. Outbound calls	75	57	18	.31
o. Inbound calls	53	73	-20	-.27
TOTAL LONG DISTANCE CALLS				
eak load in calls per day	7	12	-5	-.41
eceipts from Long Distance business				
ELEGRAPH BUSINESS				
essages via Western Union				
essages via				
TOTAL MESSAGES				
eceipts from telegraph business				
o. of money transfer messages				
o. of money transfer receipts				
OTAL RECEIPTS TELEPHONE & TELEGRAPH DEPT-				

0-163

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE National Park for the Month of MARCH, 1931

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
Current generated, ...	53260.0	594642.0	59980.0	598400.0	3758.0	.006
Sold to park operators, . . .	969.3	62189.1	468.0	64977.9	2788.8	.04
Sold to others, ...						
Furnished to other Governmental agencies, ...						
Used by National Park Service, lost in transit, etc., . . .	52290.7	532453.9	59512.0	533422.1	969.2	.001
Total current generated, . .	53260.0	594642.0	59980.0	598400.0	3758.0	.006

Amount receivable from the sale of electricity, ... $ 48.46

Indicated by K. W. H.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

ion, Yellowstone Park, Wyo. ; *month,* April, 19 31.

Temperature. (Degrees Fahrenheit.) Max.	Min.	Mean.	Precipitation. (In inches and hundredths.)	Character of day.	Per cent of Possible Sunshine
45	25	35	.15	Cloudy	21
30	20	25	.05	Cloudy	23
42	12	27	0	Clear	80
48	20	34	0	Pt.Cl'dy	79
54	29	42	0	Pt.Cl'dy	65
56	38	47	0	Cl'dy	42
60	36	48	T.	Pt.Cl'dy	68
44	26	35	0	Clear	98
45	27	36	0	Cloudy	62
55	33	44	0	Cloudy	65
61	34	48	0	Cloudy	72
62	36	49	0	Clear	100
56	32	44	.01	Cloudy	34
44	30	37	.01	Cloudy	48
52	25	38	T.	Pt.Cl'dy	72
57	27	42	0	Pt.Cl'dy	90
61	32	46	0	Pt.Cl'dy	83
47	28	38	0	Pt.Cl'dy	84
39	24	32	0	Cloudy	45
35	18	26	0	Pt.Cl'dy	76
41	18	30	.03	Cloudy	14
33	17	25	0	Cloudy	54
40	13	26	0	Cloudy	71
43	23	33	T.	Cloudy	63
49	29	39	T.	Cloudy	48
52	25	38	0	Cloudy	51
57	26	42	0	Pt.Cl'dy	70
58	29	44	T.	Pt.Cl'dy	70
44	36	40	.61	Cloudy	0
53	36	44	.09	Cloudy	25
			Total.		
48.8	26.8	37.8	0.95		59*

ATMOSPHERIC PRESSURE. (Reduced to sea level, inches and hundredths.)

Mean 30.073; highest 30.70, date 20
lowest 29.69, date 7

TEMPERATURE.

Highest 62, date 12; lowest 12, date 3
Greatest daily range 31, date 27
Least daily range 8, date 29

MEAN FOR THIS MONTH

1871	82	93	31	04	39	15	45	26	41
1872	83	94	38	05	37	16	38	27	34
1873	84	95	..	06	38	17	31	28	53
1874	85	96	34	07	34	18	33	29	34
1875	86	97	38	08	39	19	39	30	44
1876	87	98	40	09	31	20	31	31	38
1877	88	99	39	10	43	21	33	32	
1878	89	00	43	11	34	22	33	33	
1879	90	01	42	12	36	23	33	34	
1880	91	02	39	13	38	24	36	35	
1881	92	03	41	14	38	25	40	36	
			42						

Normal for this month 37.0
Absolute maximum for this month for 44 years 77
Absolute minimum for this month for 45 years -3
Average daily excess (+) or deficiency (−) of this month as compared with the normal +0.8
Accumulated excess (+) or deficiency (−) since January 1 +356
Average daily excess (+) or deficiency (−) since January 1 +5.0

PRECIPITATION.

Total this month 0.95; snowfall 5.3
Greatest precipitation in 24 hours 0.69, date 29-30
Greatest 24-hour snowfall 5.0, date 1-2
Snow on the ground at end of month 0

TOTAL PRECIPITATION THIS MONTH IN

1871	82	93	0.97	04	0.96	15	1.29	26	1.38
1872	83	94	1.87	05	1.52	16	1.05	27	1.53
1873	84	95	0.61	06	1.24	17	2.64	28	1.51
1874	85	96	1.29	07	1.12	18	1.59	29	1.48
1875	86	97	1.31	08	0.88	19	1.41	30	0.62
1876	87	98	0.05	09	0.81	20	1.52	31	0.95
1877	88	99	2.30	10	1.19	21	1.70	32	
1878	89	00	1.95	11	1.40	22	1.15	33	
1879	90	01	1.08	12	2.24	23	1.81	34	
1880	91	02	2.14	13	1.21	24	0.95	35	
1881	92	03	0.80	14	1.49	25	1.95	36	
			1.40						
			....						
			0.92						
			1.39						
			0.18						
			0.92						

Normal for this month 1.46
Excess (+) or deficiency (−) of this month as compared with the normal -0.51
Accumulated excess (+) or deficiency (−) since January 1 -3.9

MEAN RELATIVE HUMIDITY (Percentage).

6 a. m., 65.6; local noon, 56.7; 6 p. m. 39.7

WIND.

Prevailing direction Southwest; total movement 5,787 miles; average hourly velocity 8.0; maximum velocity (for five minutes) 23 miles per hour, from Southwe on 7
Maximum wind velocity this month since 1928 (By three-cup anemometer) 30-S7,

WEATHER.

Number of days, clear 5; partly cloudy 10; cloudy 17
on which .01 inch, or more, of precipitation occurred 7

MISCELLANEOUS PHENOMENA (dates of).

Auroras 0; halos: solar see below, lunar 0
Hail 0; sleet 0; fog 27, 28
Thunderstorms 0
Frost: light ....; heavy 23; killing 15, 27

NOTE.—"T" indicates trace of precipitation.

Solar halos, 9, 16, 17, 23, 24, 25, 28.

e autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.

Lowest observed relative humidity, 18%, at 6 p.m. on 11th and 12th and at local noon on the 18th.

W. T. LATHROP,
Meteorologist, Weather Bureau.

GOVERNMENT PRINTING OFFICE

Form No. 1030—Met'l.

U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION

.....

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MONTH

....., 19

8—1650 U. S. GOVERNMENT PRINTING OFFICE: 1929

Department of the Interior
National Park Service
Yellowstone National Park

JJ-4

MEMORANDUM FOR THE PRESS: By: Joseph Joffe
Release ON RECEIPT Assistant to the Superintendent

Yellowstone Park, Wyoming, March 00: The coyotes have struck their first blow at the 1931 calf crop in Yellowstone National Park and so far their batting average is a thousand. On St. Patrick's Day the stork visited the buffalo herd in the Lamar Valley and a little red calf was observed following its mother. Chief Buffalo Keeper Lacombe lost no time in dubbing the little fellow "Pat" and it is doubtful if there has ever before been a St. Patrick's Day baby in the buffalo herd, as this is about a month earlier than the cows usually give birth to their young.

Pat was a bouncing boy, weighing about thirty pounds, and "bouncing" he was, for no other word would more accurately describe his maneuvers in trying to stay at his mother's heels. His arrival increased the herd total to 1192 and he was the nucleus of a calf crop destined to reach about 250, but his stay on earth was short-lived as the coyotes are constantly watching the buffalo and elk herds and it is a problem for the mothers to bring their young through the early life stages. Pat evidently strayed too far from his mother and the rest of the herd and the story written in the snow which the buffalo keeper and his men interpreted indicated that ten or twelve coyotes were in the pack which cunningly stalked the helpless youngster and feasted upon the fresh meat. The only remains of the catastrophe was some blood and a few buffalo hairs - not even a bone was left as evidence.

Incidents such as this fire man's hatred for the coyote and place this cunning animal at the head of the predatory class in this great park.

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Department of the Interior
National Park Service
Yellowstone National Park

JJ-5

MEMORANDUM FOR THE PRESS:
Release ON RECEIPT

By: Joseph Joffe
Assistant to the Superintendent

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Yellowstone Park, Wyoming, April 00: "Seeing the world through a porthole" has been a familiar phrase for years with the Navy but seeing Yellowstone National Park from the back of a park ranger is a new experience in beardom.

In early February Park Naturalist Dorr G. Yeager started on a ski trip around the loop road with a view to studying the hot water phenomena in winter. Upon arrival at Old Faithful there was considerable excitement over the finding by the winterkeepers of a pair of bear cubs born to Mrs. Jesse James, of the bear hold-up tribe. Natural history books contain very little regarding the early period in the life of a wild bear so Mr. Yeager decided to bring one of the cubs into headquarters to study and note the daily developments in a bear's life.

As the mother was more or less in a dormant state it did not require great effort to secure one of the cubs. The wife of the winterkeeper sewed a pocket in the back of the parka worn by Mr. Yeager and the following day the trek around the loop continued. Jesse James, Jr. was born on January 20 and when the trip started he weighed 24 ounces, measured eight inches in length and had not yet opened his eyes to see what the world was like. He traveled over the Continental Divide twice in the trip from Old Faithful to Thumb and while enroute from Lake to the Canyon one eye opened for the first time. Not before fifteen more miles had been covered did the other optic open so by the time the Grand Canyon was reached the youngster was able to observe this stupendous spectacle which park visitors come thousands of miles to see.

Jesse James, Jr. has taken up his home in the Yeager residence and his every movement is being observed. "He's a bottle baby and requires a great deal of time and attention", Mr. Yeager said, "but I feel that the results are going to be worth the effort."

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Department of the Interior
National Park Service
Yellowstone National Park

JJ-6

EMORANDUM FOR THE PRESS:
elease ON RECEIPT

By: Joseph Joffe
Assistant to the Superintendent

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Yellowstone Park, Wyoming, April 00: Telephone operators "listening in" to call the other night from Yellowstone National Park to Grinnell, Iowa must have eard a conversation which made them perk up their ears. Park Naturalist Dorr . Yeager has taken a cub bear to raise, having brought the youngster in from ld Faithful on his back, a ski trip of 92 miles. A box has been fixed up in he Yeager kitchen, which the cub calls home, and a record is being kept of his eight, growth, manners, etcetera.

A few nights ago Mr. Yeager called his mother at Grinnell, Iowa, and during he course of the conversation the cub bear was brought to the phone and spoke is little piece into the receiver, vieing with the trained seals, dogs and other nimals now broadcasting over the radio. There is nothing more realistic to the ry of a human child than that of a cub bear and when Mrs. Yeager first heard the ry she immediately thought that the stork had paid a visit to the home of her on and daughter-in-law, who have been married for about two years.

The necessary explanations were made and the party on the Grinnell end of he line said that she realized that the Yellowstone was a home and preserve for he wild animals of the forest but that she had never hoped to live to be able o converse with any of them from a distance of about fifteen hundred miles. "I've heard of the 'call of the wild'", the elder Mrs. Yeager remarked, "but his 'long distance call of the wild' is a new one on me!"

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Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming

March 16, 1931.

CIRCULAR NO. 2.

On May 11, 1926, we issued a memorandum for our Mammoth residents requesting that they be more conservative in the use of ice. Since the issuance of this memorandum, a great many new families have moved into the community.

In order to conserve on our ice supply, it is necessary that we have the cooperation of all families. A check during the past two months reveals that some families are using a great deal more ice than others and in most cases the reason appears to be that the ice boxes are kept in the kitchen or in warm places.

Ice boxes must be located in cool places and the iceman will be instructed to stop delivery of ice to families where the boxes are kept in kitchens or other warm places.

If the necessary cooperation in the use of ice is not forthcoming, it will be necessary that drastic action be taken in the issuance of ice to our employees.

Guy D. Edwards
Acting Superintendent

Department of the Interior
NationalPark Service
Yellowstone National Park
Yellowstone Park, Wyoming

March 17, 1931.

IRCULAR NO. 3

Circular No. 1, dated January 6, 1927, authorized the appointment of Foreman rry McFarland as fire chief and Master Plumber William Wiggins and Chief Ranger m T. Woodring as his assistants. Since the issuance of this circular Mr. Wooding has left the park and numerous changes have been made in the park organiza-on. Therefore, we are issuing a new circular to acquaint our people with the re regulations and what to do in case of fire.

It is of utmost importance that every precaution be taken against fires and is up to each individual to lend his or her assistance to avoid a fire here. e Park Service has placed pyrenes and fire extinguishers in every house and ilding and the people should familiarize themselves with the location of these. so, they should not be removed from a house under any circumstances. It will be e duty of the master plumber to see that the pyrenes and extinguishers are al-ys filled and in working order.

If any of the houses here have defective flues or wiring this should be re-rted at once to the superintendent's office and immediate steps will be taken remedy the situation. Precautions should be taken against leaving too hot a re burning in a house where there is no one to watch it and electric stoves and lectric appliances should not be left burning when the occupants of a house are t at home. Special precautions should be taken to keep attics and sheds free rubbish. Periodical inspections will be made to see that attics and sheds e kept neat and orderly.

Foreman Harry McFarland is chief of the fire department at Mammoth and is sponsible for the upkeep of all fire equipment. However, it is up to all of to assist Mr. McFarland in anything he might request of us. Master Plumber iggins and Assistant Chief Ranger Miller are assistant chiefs and in the absence Mr. McFarland, Mr. Wiggins will be acting fire chief. In the absence of both ssrs. McFarland and Wiggins, Mr. Miller will be acting fire chief. The assist-t chiefs should at all times work with Mr. McFarland and familiarize themselves ith the fire fighting facilities available here.

A car of some kind should always be available in the garage so that it can started without difficulty. This is essential and the garage foreman should ke it a point to see that a car is available.

Immediately upon hearing the siren, Mr. Holman will proceed to the intake and rn on the high pressure. No time should be lost in performing this important ty. Should Mr. Holman be absent from headquarters Master Plumber Wiggins or e of his men, familiar with the high pressure system, should perform this duty.

Cards giving the fire signals and location of the hose carts have been framed l placed in the kitchens of every house at Mammoth, in every cart house, on the commissary porch, in every bunk house, in the garage, in the carpenter shop and veral other conspicuous places. Our people should familiarize themselves with

hese signals and know just what they will do in the event of a fire. No card hould be removed from a house under any circumstances.

There are three hose carts available and they are located at the following laces:

Number 1. - Hose cart and ladder wagon - In rear of commissary. This cart and wagon should be drawn to the fire by the automobile which is available in the garage.

Number 2. - Hose cart - In north side of Government stables. This cart should be gotten out and pulled to the fire by man-power or hooked on to some motor vehicle if same is available.

Number 3. - Hose cart - In bunk house in rear of Weather Bureau. It will not be necessary to get out this car unless the instructions requiring it are given by the fire chief. During the summer months the men of the Transportation Company will be responsible for bringing this cart to the fire.

Upon hearing the siren every male resident is expected to get to the scene activity as soon as possible. If the signal is not understood he should go mediately to one of the hose cart houses and wait until it is determined just ere the fire is located. The assistant chiefs should go direct to the fire d pay no attention to the getting out of the hose carts. It is just as imrtant to turn out for a fire drill as for a real fire and in the case of a re drill the hoses must be unwound, attached to the plugs and the water turned , and ladders must be taken off the wagon and made ready for use. THE FIRE IEF IS IN COMMAND AT ALL FIRES AND FIRE DRILLS AND HIS ORDERS MUST BE OBEYED.

Immediately upon hearing the siren the chief electrician will proceed to t a pair of pliers and climbers before going to the scene of activity. This of utmost importance as it is often necessary to cut wires, climb poles, t onto buildings, etc.

All telephone operators should proceed to the telephone office immediately on hearing the siren, to be available for emergencies.

This circular is issued merely as a precautionary measure and to familiarze the residents here with what to do in the event of an alarm. Too much tress can not be laid on the necessity for preventing fires and the cooperation f everyone is urgently requested to aid in avoiding the destruction of our mes, our property, the property of our operators, our Government's property d perhaps even our lives by F I R E.

Guy D. Edwards
Acting Superintendent