

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC.

National Park for the Month of

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

Current generated,
Sold to park operators,
Sold to others,
Furnished to other governmental
agencies,
Used by National Park Service,
lost in transit, etc.,
Total current generated,

Amount receivable from the sale of electricity,
\$ 172.00

Indicated by K. W. H.

10-23

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
~~Yellowstone~~ NATIONAL PARK

FILE NO. 143

MONTHLY REPORTS

November, 1928

NOVEMBER 1928



21

November 5, 1922.

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

Dear Mr. Director:

The following is my report on the activities of the National Park Service in Yellowstone National Park during the month of November 1922:

000 - General

Perhaps this news does not fit under "General" but the Director is especially interested in knowing that the belfry on the chapel at Mammoth has been completed and the bell installed, and Judge Meldrum has rung the bell several times to test it out and it has met with his unqualified approval.

Weather conditions have continued ideal during the month of November and permitted the continuation of our roadside cleanup and road construction during the first half of the month. Road construction could continue throughout the month but was curtailed as soon as the new road had been placed in condition for next season's travel. The tourists continued to pass through the park on the way to Idaho and Utah and it was not until November 11 that the road across the Continental Divide between Old Faithful and Thumb was closed on account of deep snow. The last car went across Sylvan Pass the night of November 5. Snow and wind that night closed the pass.

100 - Administration

120 - Park Inspections by

121 - Acting Superintendent

Assistant Superintendent Deam was Acting Superintendent during the month due to Mr. Albright's absence, and he made frequent trips into the park to observe weather conditions and inspect construction and road-

January 1, 1960

Mr. [Name]
[Address]
[City, State, Zip]

Dear Mr. [Name]:

On January 1, 1960, the [Organization] has been [Action] [Reason]

Very truly yours,

[Signature]
[Name]
[Title]
[Organization]

The [Organization] has been [Action] [Reason] [Details]

Sincerely,

[Signature]

[Name]

[Footnote/Reference]

side cleanup work. He made final inspections on contract work under the supervision of the B. T. E. on the Cub Creek section of the Sylvan Pass project, of the Gibbon Canyon section of the Norris-Madison Junction project and of Section A, West Gallatin project. Due to lack of funds, very little construction was carried on during the month and all work was discontinued in plenty of time to escape the bad weather. On the 24th he made a trip down the Gardiner canyon observing game conditions, especially a band of 50 mountain sheep and several bands of antelope. On the 28th he made a trip to the Buffalo Ranch to observe the separation of the herd to provide animals to fulfill the contract for slaughtering which was started in December.

150 - Equipment and Supplies:

No new equipment was received during the month and the storehouse force was occupied mainly with laying in the season's supply of forage and fuel, which consisted of about 300 tons of hay, 300 tons of oats, 50 cords of wood and 650 tons of coal. All but 100 tons of coal were placed in the storehouse during the month. This work has necessitated the keeping on of from 4 to 6 trucks and the necessary drivers and owners.

170 - Plans, Maps and Surveys

The Resident Engineer and Assistant Resident Engineer continued on the working up of estimates on the various surveys made during the summer and incidental office work necessary from time to time in preparing plans and estimates. It was necessary to maintain a small survey crew during the construction of the Mammoth-Norris road but this crew was discontinued on the 15th.

180 - Circulars, bulletins, etc.

Copies of circulars issued during the month are attached hereto.

200 - Maintenance, Improvements and New Construction

210 - Maintenance

No maintenance of roads was done this month.

220 - Improvements

Carpenter Shop: The Carpenter Foreman and crew continued the work of remodeling the old storehouse into quarters and practically completed the remodeling of the stone building formerly used by troop horseholders into a blacksmith shop and the removal of the equipment from the old blacksmith shop into the new building, besides the incidental repairs necessary on the various buildings.

[illegible]

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to address the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves monitoring the progress of the plan and determining whether the problem has been resolved.

[illegible]

There are two main types of ... and ...
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Electrical Department: The usual maintenance of the electrical system was carried on during the month. Some attention was paid to oil-brating the turbine in the power plant which will be repaired this winter. The telephone lines were changed over to the ground circuit during the month and placed in shape for winter.

Plumbing Department: This department was occupied with the usual maintenance of the water and sewer system and the necessary replacement of worn-out fixtures in the various buildings.

Garage: Only minor repair work was performed by the garage employees until the middle of the month when various employees came back from leave, at which time the regular winter overhauling of equipment was started and at the end of the month practically 5 trucks had been overhauled. Some work was necessary, of course, to keep our fleet of freight trucks in operation during the month, as from 4 to 6 trucks were operated throughout the month.

Paint Shop: The Master Painter and helper continued the remodeling of the storehouse, finished repainting the interior of the old messhouse and did the usual jobs of glazing.

230 - New Construction - Roads

Mammoth-Morris: With the additional funds secured to place this project in shape for winter, work continued until the 15th, at which time we had roughed in the road from Morris to 17-mile post, a distance of 3 miles, and had placed it in shape for next spring's travel. We had also accomplished much of the clean-up of the roadsides which unsightly condition has caused much unfavorable comment during the past few years. Final inspections were made upon the following projects and approved for acceptance by the Park Service: Morris-Madison Junction, Cub Creek section of the West Entrance road, Section A of the West Gallatin.

New Construction - Buildings: No work was done on new buildings this month except a few days' labor necessary to complete the mess house and bunkhouse at Morris Junction and the hauling out of the materials for the checking station at the West Entrance and the new bunkhouse at Tower Falls.

240 - Improvement of Approaches to the Park

Good progress is being made on the Corwin Springs-Gardiner section of the North Entrance approach road. Much additional equipment was placed on the job during the latter part of the month to expedite its completion. Work has not yet started on the bridge across the Yellowstone River at Gardiner. From latest reports from the State Highway Commission a contract will be let this winter or next spring for the construction of the road between Carbella and Chico, thereby eliminating the last bad stretch of road on the way to Livingston.

[illegible]

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1. The first of these is the fact that the Government has not been able to secure the necessary funds to carry out its policy. This is due to the fact that the Government has not been able to secure the necessary funds to carry out its policy.

10. The undersigned hereby certifies that the above information is true and correct to the best of his knowledge and belief, and that he is not aware of any other information that would materially affect the accuracy of the foregoing.

[illegible]

The following is a list of the names of the persons who have been
 appointed to the various positions in the Department of the Interior,
 for the year ending June 30, 1902.

the following - following the same line as the following file

Page 10 of 10

THE following is being made for the purpose of being used as a guide in the selection of a suitable site for the construction of a new building for the use of the Department of the Interior, Bureau of Land Management, in the vicinity of the town of ...

Fair progress is being made on the road from Hutchings' Ranch up the canyon toward Hobday Lake. It is expected this project will be completed early next spring.

No reports have been received relative to the progress of the work along the Shoshone Lake and river on the East Entrance approach road.

290 - Landscape Work

The Assistant Landscape Engineer left the park November 3rd for the San Francisco office after accompanying Assistant Superintendent Leach over the various projects and approving the recommendation for acceptance of the same. Roadside cleanup of the road between Canyon and West Thumb was completed during October, and the crews transferred to the Old Faithful-Madison Junction road where camp was established near Excelsior Basin, and approximately 4 miles of road was cleaned up before work was stopped the 15th. The snow was not heavy at this time but it was found that too much moisture in the ground and the logs being frozen solid required too much unnecessary work to loosen them up and burn them so that in the interest of economy the work was stopped.

The old lunch station near Lake Eleanor was burned down during the early part of November and no longer presents an unsightly appearance to the visiting public on their way through that beautiful country. The entire layout at Norris Junction that has caused so much criticism for years was torn down and the remains burned so that next spring there will be very little, if any, evidence of the former place.

300 - Activities of other agencies in the park

350 - Donations and accessions of all kinds

Through the aid of Carl Russell, Park Naturalist of Yosemite Park, who is traveling in the East, the following books were added to our library:

- "Highways and Byways of the Rocky Mountains," Clifton Johnson.
- "A Summer on the Rockies," by Sir Ross L. Price Bart.
- "The Out of Door Library" by Hunting.
- "Shooting and Fishing in the Rivers, Prairies and Backwoods of North America", Benedict Henry Revell, Vols. I and II.
- "A Short History of the Mississippi Valley," James K. Hosmer.
- "The Yellowstone National Park," Hermann Haupt, Jr.
- "Through the Yellowstone Park on Horseback," Wingate.
- "Pathfinders of the West," Laut.
- "Sporting Adventures in the Far West," Murphy.
- "Buffalo Bill's Own Story of His Life and Deeds," Col. W. F. Cody.
- "Buffalo Land," W. B. Webb.
- "Roosevelt in the Bad Lands," Norman Hagedorn.

This document is being made available to the public from the records of the Department of Defense. It is not to be used for any purpose other than that for which it was originally prepared.

10. The following is a list of the names of the persons who have been appointed to the various committees of the Board of Directors of the American Red Cross, for the year 1917-1918.

The following is a list of the names of the persons who have been appointed to the various positions in the various departments of the Government of the State of New York, for the year 1900.

and the Commission has been very helpful in this regard. It is

THE UNIVERSITY OF CHICAGO

It is possible in the past the following items were held in the library
through the aid of the Council and the University of London.

[illegible]

400 - Flora, fauna, and natural phenomena

410 - Ranger, naturalist and guide service

Rangers have been primarily engaged in patrols for the protection of wild life and the prevention of trespasses by hunters on park lands; other duties have consisted of predatory animal hunting, observing and reporting weather conditions (variations of temperatures, snow depths, precipitation, etc.) and water gage heights, repairs and maintenance of property and equipment and routine station duties. Special daily mounted patrols were concluded in the Gallatin, Riverside and Therafare districts on November 15th. The hunting season along the north line will require daily patrols until the close of December 20th. Early patrols of the park boundary will also be required in the Bechler District until the close of December 15th. Mounted patrols were concluded in the Central and Southern areas on November 15th, and in the Riverside, Grayling and Gallatin districts (western area) on November 30th. These districts will hereafter be closed to all but ski and snowshoe transportation for a period of about 6 months. The north side will probably remain open to horse and motor transportation until on or about the close of the year. The supervisory personnel of the Protection Department service have consisted of Chief Ranger Woodring, Assistants Chief Ranger Friedman, Douglas and Greer, and Acting Assistant Chief Ranger J. E. Ogston, who has recently been placed in charge of the southern supervisory territory, vice Harry J. Lick, promoted to the Superintendency of Mt. McKinley National Park.

420 - Museum Service

Work on the making of a relief map of the Upper Geyser Basin took most of the month for one man. Contours and elevations were secured by the cutting of cardboard which was then aligned and tacked in place. Over this a coating of papier-mache was placed. This will be covered by white lead and the various features painted on at a later date. Considerable work has been done in cataloging and numbering of the sinter and historical specimens at hand; nearly 300 cards are now in the files, giving the data on that number of specimens. Labels for the sinter, igneous rock, and photographic exhibits to be placed in the Old Faithful Museum have been completed and corrected. Over one hundred of them have been sent to the printer, and these will be proof-read in the near future. Considerable work has been done on a filing system for the library, part of which is now on hand, and part of which will be secured at a later date and placed in a room in the large Museum to be built at Mammoth within the next year. A proposed addition to the Mammoth Nature Trail has been gone over and the most suitable route chosen. This addition will be of benefit to those who cannot undertake the present trail for physical reasons. Signs along the trails at Old Faithful and Mammoth have been taken down and stored. A few of them which will need repainting or re-wording have been brought to Mammoth and the work will be done on them some time in the future. A study skin of a pigeon-hawk has been prepared. Considerable time has been spent in preparing a list of equipment which will be needed for scientific purposes and will be purchased before July 1st. This list includes equipment for the Old Faithful Museum, as well as laboratory equipment for the Mammoth Museum. This is not a complete list of the equipment needed, but represents those things for which there is a great need at present.

[illegible][illegible]

370 - Animals

Wild life and forage conditions are more favorable at this time than at the close of any November during the past 6 years. Forage is more abundant, snow depths and precipitation have been decidedly below normal, and temperatures have been mild. All species of wild life are in excellent condition for the winter season.

Elk: More elk had moved down to the winter range along the Yellowstone and Lamar Rivers at the close of October last year than have appeared this season to the close of November. In the event that weather conditions are normal throughout December there will be very little drift to points outside the park before January 1st. There have been no elk killed along the north line west of Crevise Mountain this season. The season closes on December 20th.

There were no noteworthy counts this season prior to late November, which are noted briefly as follows: Upper Yellowstone District 400, West slope of Cache Creek 300, vicinity of Cooke Ranger Station 23, along Soda Butte Creek and Lamar River, from mouth of Pebble Creek to Buffalo Ranch counts and estimates total about 2,000, along highway from Lamar River Canyon to Junction Butte (Tower Falls-Slough Creek district) 1,000, Hellsroaring Slope and lower reaches of Buffalo Plateau, about 1,000, north slope of Garnet Ridge 100, Blacktail district actual count 317, Owen Lake Plate and vicinity 200, and Fountain Plate (Fountain Station to new geyser), actual count 86; total of actual counts and careful estimates secured late in November, 5426. There are several small bands, as usual, along the meadows of the Gibbon and Firehole Rivers. There is a small band in the Grayling Creek district and signs along the Madison indicate that the drift to the Game Preserve north of the park probably does not exceed 500 to date. Observers on hunting areas bordering the park report kills to the close of November as follows: Upper Yellowstone district 45, Sylvan Pass district 20, Upper Slough Creek and Hellsroaring 5, Gallatin district 50, and Riverside district 31, total 151, as compared with 147 to the close of November last year, 197 in 1926, 312 in 1925 and 253 in 1924. All reports indicate an unusually large percentage of bulls and a very light percentage of calves. The best reports obtainable from Jackson Hole indicate that between 600 and 800 have been killed in that district this season.

Antelope: The maximum count this season is 350, exclusive of a band of 13 outside the park. We believe that the herd total exceeds 500, but will probably be unable to verify the conclusion until after the close of the hunting season on December 20th, as special duties in connection with the buffalo herd and special daily patrols of the north boundary will require the services of all available men prior to that date. No losses have occurred and herd conditions are excellent.

Sheep: Our only noteworthy count during the month was secured by the Chief Ranger on the 23rd. The band was located on the north slope of Mt. Everts

and consisted of 24 ewes, 13 lambs, 9 fine big rams, 3 medium large, and 1 small. There were only 2 that were apparently diseased; one of the lambs had a bad case of scabies mites infection and a large ram appeared badly afflicted with the hair lung worm infection. We have no counts from other well known sheep districts including Junction Butte, Specimen Ridge, Mt. Morris and Hellsroaring Mountain. Rangers report after careful observation that these districts are apparently abandoned this year.

The only losses reported this season consist of 6 killed by hunters in the Sylvan Pass district east of the park.

Deer: Reports from hunting areas bordering the park give the losses this season as follows: Upper Yellowstone District 12, Sylvan Pass District 25, Gardiner District 11, and Grovice District 8, total 56, as compared with 85 at the close of the hunting season last year, 105 in 1926, 67 in 1925, and 56 in 1924. The deer are in excellent condition for the winter.

Moose: Rangers on patrol in the Upper Yellowstone (Therofare District) report range groups of from 12 to 18 commonly seen; the largest range group observed this season consisted of 32. They were not all in view at one time but were seen at intervals along the meadows for a total distance of 3 miles. The rangers believe there are approximately 450 in the Therofare District at this time. Isolated counts have been submitted from other localities as follows: Willow Creek District 3, Soda Butte district 9, headquarters of Pebble Creek 1, Buffalo Plateau 4, Tower Falls District 2, Willow Park 4, and Fountain District 2. Twenty-one were killed by hunters this year as compared with 13 to November 30th last year and 36 to November 30th, 1926.

Bears, black and brown: There has been very little property loss, damage or annoyance reported this month. Appearances have been rare since about the 15th, although there were some signs of activity at Old Faithful and Yellowstone Lake stations as late as November 30th. Hunters are reported to have killed a total of 14 this season on areas bordering the park as compared with 16 last year, 23 in 1926 and 8 during the fall season of 1925. The reported losses this season are believed to include the captive bear, Juno, who has been a real attraction at headquarters for about 3 years. He slipped his collar several weeks ago, as he has done on previous occasions, and managed to elude capture although he appeared at the community daily for about 2 weeks. His final disappearance occurred early in the season and tends to confirm the rumor his appearance at a hog ranch near Gardiner from which he never returned.

Bears - grizzly: Only one of this species was reported killed by hunters this season. It was killed in the Therofare District south of the park.

Buffalo, Lamar River Herd: Most of the herd is now assembled in the vicinity of Buffalo Ranch following a round-up during the last week of the month. Ninety-seven steers were corralled and will be slaughtered early in

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1941. The year was in constant conflict with the others.

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1. The first of these is the fact that the majority of the population of the United States is of European descent. This is a fact which has been recognized by the government and the people for many years. It is a fact which has been recognized by the government and the people for many years.

and the family are very important in the life of the individual. It is the family that is the primary source of socialization and the family that is the primary source of emotional support. The family is the primary source of socialization and the family that is the primary source of emotional support.

1. The first step in the process of identifying a problem is to determine the nature of the problem. This involves a thorough understanding of the situation and the factors that may be contributing to the problem. Once the nature of the problem is understood, the next step is to identify the causes of the problem. This involves a detailed analysis of the situation and the factors that may be contributing to the problem. Once the causes of the problem are identified, the next step is to develop a plan of action to address the problem. This involves identifying the steps that need to be taken to address the problem and the resources that will be needed to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan of action. Finally, the last step in the process of identifying a problem is to evaluate the results of the plan. This involves assessing the effectiveness of the plan and making any necessary adjustments.

December for the market. Mr. W. B. Custer of Missoula, Mont., is the purchaser on terms and conditions authorized and approved by the Director. This disposal of surplus animals will greatly benefit the herd and provide us with a precedent for the future. The annual roundup will occur early in January at which time the calves will be corraled for weaning and a full count of the herd secured and submitted. Herd conditions are excellent at this time.

Buffalo - Cold Creek-Pelican Creek Herd: There is nothing of interest to report at this time.

2-42-64
Predatory Animals: Fifty-three coyotes were killed during the month. The count previous to November was 81; total this season to date 134, as compared with 119 to November 30th last year, 89 in 1926, 134 in 1925, 87 in 1924 and 53 in 1923.

Buffalo and Other Ranch Operations: Routine fall season work has been in progress at the Buffalo and Slough Creek Ranches consisting principally of the care and keep of horses, property and equipment, and the observation and control of the buffalo herd. All hands assisted daily during the last week of the month with the rounding and corraling of the steers. They will also assist with the slaughter of approximately 100 during an interval of about 10 days. We have had an open season thus far and wild animal feeding will not be necessary at any of the ranches until after the close of the year. There have been ^{no} noteworthy activities at the Yancey, Gardiner and Game Preservation Ranches this month. The Park Service and ranger horses, no longer required for use in connection with the winter season work have been assembled for care and feeding at the Game Preservation Ranch; there is a large acreage of good forage available, and feeding will probably not be necessary before late in January.

480 - Natural Phenomena

Mammoth Hot Springs: There has been little change in activity at Mammoth during the past month. If anything, there is more activity, and a greater wealth of color to be observed than on November 1st. White Elephant Back Terrace is no longer deserving of its name, for the recent increase in activity has caused dark-colored algal growths to flourish, thereby destroying the prevailing whiteness of the formation. Old Hymen Terrace has continued its activity throughout the month, with the height of that activity around the third week of the month. The spring just east of Old Hymen Terrace has dried down till there is but a small pool of water left at the bottom of its crater. Another small spring has broken out at the east of Liberty Cap, but it is much smaller than the one which was first noticed early in September. Activity and deposition has increased somewhat at the Blue Springs. Narrows Gauge Terrace presented the greatest increase in activity for there are vents, sulfaterias, and springs the entire length of the formation which is less than 100 yards. A count revealed 40 springs throwing water more than an inch above the surface, 140 smaller springs, and 70 sulfaterias and steam vents. The hissing caused by the escape of steam could be heard for 200 yards. No bats were found in the Devils Kitchen, nor were any suffocated birds found in Wyglam Caves.

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WASHINGTON, D.C. 20250

Indicate a total (average) score in column 2.

THE UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS 60637
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Norris Geyser Basin: The following report is submitted by Ranger Baker on the thermal activities in the three major basins and at the new geyser during November:

The only unusual activity observed was an eruption on November 12 of Snowy Geyser, which was erupting when I drove along the road and continued to erupt 25-30 feet high in a spray-like jet for 2-1/2 minutes, or until I was within 100 feet of it. At the ending of the eruption the water level dropped until no water was visible in the crater. The following geyser activity at Norris is, so far as I know, not in any way unusual or different from that during October. Congress Pool - the water level is still very low and steam is belched forth in great quantities; the growling tendency has continued. Black Growler - the only change here is an increase in surface water visible to about the amount noted in early July. Lodge Geyser - has been playing 30-90 feet on the incline for 6-10 minutes at an uncertain but a evidently irregular interval. Constant Geyser - due to no observed activity on several trips over the basin it is judged that this geyser is not at present active. No activity seen in October either. Whirligig has been playing 12-18 feet high for 5-8 minute (intervals) durations with irregular intervals between eruptions. Porcelain Basin - here the many small vents and springs are all very actively steaming or spouting to small heights with an apparent increase in surface water since summer. Minute Man has been erupting at intervals of 2-3-1/2 minutes to heights of 8-12 feet for durations of 10-15 seconds. Vixen playing at irregular intervals, often only a few minutes apart, heights 8-25 feet; eruptions consist of several spurts after which the pool drains into the orifice. Bathub Spring boiling violently 8-20 inches high most of the time. Emerald Spring boiling 2-3 feet high all or nearly all the time. New Crater Geyser - the south orifice has been playing 12-15 feet above rim and the north orifice only 1-3 feet above rim at intervals of about 7 minutes for durations of 2-3-1/2 minutes. Valentine - not observed in action. Hundred Springs Plain - the springs and small geysers here have not shown any important or unusual activity.

Lower Geyser Basin: Keloidescope Geyser - has been very active, playing 12-15 feet high for 10-15 seconds at intervals of 3-1/2 - 5 minutes. Clepsydra - has been unusually active, having played 15-30 feet high for durations of 30-60 seconds at intervals varying from 3-5 minutes. Fountain Geyser as far as is known has not been active. Fountain Paint Pots have increased their activity to the north and especially on the east side during the last two weeks; at present mud is being thrown 8-10 feet high at times on the east side from two or three small openings; such thrown material covering a small section of the bank and going at times outside the fence. Steady Geyser - in constant eruption. The east orifice playing 25-30 feet high, and the west only 15-20 feet high. Great Fountain - seen in action only once during month, but it is evidently on its regular schedule of about 8 hours. As observed it played 80-100 feet high for 52 minutes. White Dome - playing regularly 17-25 minutes apart to heights of 30-35 feet for durations of 50 seconds to 1-1/2 minutes. Spray Geyser - in action much of the time; intervals vary from 3 - 8-1/2 minutes as observed, heights 8-15 feet and durations from one to several minutes. New Geyser - during

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the month some new light has been thrown on the activity of this geyser in that observations showed that intervals were varying from $4\frac{1}{2}$ to 8 hours, which is more than before believed. Durations varied from 3 to nearly six hours. The height has remained 50-60 feet with occasional spurts 80-90 feet high. The wearing away of the side walls of the crater, especially on the south side, is continuing rapidly. Most of the observed intervals were from 6-8 hours. Flood Geyser - in Midway Basin - has been very active lately, erupting 8-10 feet high for durations of 1-2 minutes at irregular intervals of a few hours.

Biscuit Basin: Sapphire Pool - boiling up 3-4 feet at short intervals and erupting 8 feet to 10 feet high at intervals of 10-12 minutes. Jewel Geyser - playing at 6-8 minutes intervals to heights of 10-14 feet and to 3-4 feet heights once or twice during the 6-8 minutes between major eruptions. Avoca (formerly Mustard) - playing 6-7 feet high 1 - 1-1/2 minutes at irregular intervals. Artemisia - playing 30-35 feet high for 6-9 minutes at irregular intervals.

Upper Basin Proper: Riverside - activity as in October - playing 80-100 feet high for 15-20 minutes, with a heavy steam period following and lasting 8-12 minutes, interval 7-8 hours. Spa Pool - erupting 6-10 feet high at irregular intervals. Grotto and Rocket - playing 6-18 feet high for 25 minutes to 2-1/2 hour durations at irregular intervals. Indicator to Grotto and Rocket - this opening, so called by Phillips, is 170 feet nearly due north of Rocket. He reported it as playing to heights of 100 feet at very long intervals. It was reported active three times in the 1928 season, but was not known to have been active last winter at all. It played the first time in the observation of the writer on November 14th and has not been observed in action since then. It consists of an irregular shaped orifice 30 x 15 inches in size which normally acts as a drain for the run-off from Rocket Geyser. The indicator opening, which is 170 feet north of Rocket began to erupt without warning at 9:46 a.m. and topped suddenly at 10:15 - giving a total duration of 29 minutes; the height was from 20-80 feet with one in every several spurts being 70-80 feet high. A small orifice 50 feet south of this and 120 feet north of Rocket began erupting 3 minutes after the indicator hole, and continued playing 8-20 feet high until 10-15 A.M. Rocket and Grotto began playing at 9:56 A.M., ten minutes after the so-called indicator started playing. Rocket and Grotto played 8-12 feet high for 25 minutes - stopping at 10:21, six minutes after indicator stopped playing. The stopping of the Grotto and Rocket seemed due to the cooling of their underground reservoir water supply through the draining of water from the pool the indicator was playing in, into its orifice when it stopped playing. While it played a pool 70 x 30 feet was backed up in the run, and as soon as it stopped this water began draining into the orifice from which it had played, taking 12 minutes to completely drain said pool. Giant is known to have played only once during the month, on November 15th, which would give it a 31-day interval from October 14th when it was reported as having erupted last. The eruption lasted from 4:26 p.m. until 5:35, giving a 69-minute duration; the height (maximum) was 200 feet. Oblong - playing 20-26 feet high for $4\frac{1}{2}$ -6 minutes at about 10 hour intervals. Snail - has been playing at intervals of 82-98 minutes, for durations of 25-30 minutes, to heights of 50-75 feet. Spouter - playing 3-18 feet high for long durations at irregular intervals. Cliff (Spring) Geyser - erupted for the second time observed this

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1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1877. It is a copy of the original letter, and is signed by the President.

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fall on November 13th, 14 days after its eruption on October 30th. The eruption started at 2:15 p.m. and lasted until 5:45 p.m., giving a duration of 3-1/2 hours. The maximum height obtained was 40-50 feet as before, and the eruption was in all ways similar to that on October 30th. Castle erupting 40-60 feet high for 22-30 minutes at irregular intervals, usually once every day. Grand - erupting at 12-15 hour intervals to 150-160 feet high for 24-29 minute durations. Sawmill - playing from 15-30 feet high for irregular but long periods at frequent but irregular intervals. Lion playing several times daily to heights of 40-45 feet for durations about 3 minutes. Beehive erupted only once during month - on November 11th - at 12:30 A.M. The eruption lasted 6 minutes and its maximum height was 140 feet. Old Faithful - playing at intervals varying from 54-62 minutes, but averaging about 56 minutes all month. This means that the interval plus the duration of eruption is averaging a little under one hour, thus from the time one eruption starts until the next starts has just been under or at 60 minutes most of the month. Heights have been 120-155 feet and durations 3 - 3-3/4 minutes. During November Lioness, Giantess and Vault have so far as known been inactive.

500 - Use of Park Facilities by the Public

510 - Increase or decrease of travel

Travel conditions were unusually favorable throughout the month. Tourists are known to have made the Loop trip (via Old Faithful, Thumb, Lake, Canyon and Norris) as late as November 11th. Travel between the north and west gates with side trips to Canyon, Lake and Old Faithful have been made without serious difficulty at all times during the month. A car proceeded from Mammoth Hot Springs to Yellowstone Lake and return on December 2nd. The Riverside rangers traveled by car from West Yellowstone to Old Faithful and return on December 1st, and auto travel occurred between West Yellowstone, Gallatin Station and Bozeman, Montana, on December 1st. All approach roads to the park, with the exception of the approach to the south gateway, were open to auto travel on December 1st. These conditions have induced considerably more than the average travel during November. The entrance travel as observed and noted by rangers at the north and west gateways is reported as follows:

North -	Cars	186,	visitors	546
West -	"	121,	"	361
Total	Cars	307,	"	907

The pre-season travel to November 30th this year consists of 2647 visitors traveling in 938 cars as compared with 1842 visitors traveling in 655 cars last year and 1203 visitors in 441 cars at the close of November 1926.

520 - General Weather Conditions

TEMPERATURE: Mean 29.0, normal 29.3. The highest was 53° on the 12th, the lowest zero on the 18th.

PRECIPITATION: Total 0.59 inch, normal 1.44 inches. Snowfall total 8.0 inches, normal 11.0 inches. Greatest snowfall in 24 hours 3.1 inches on the 26th and 27th. Average depth on ground at end of the month, 1.6 inches.

SUNSHINE: Percentage of possible 42, normal 45%. About 50 percent more cloudy days than normally. Days clear 6, partly cloudy 6, cloudy 18, with 0.01 inch, or more, precipitation 8.

WIND: The wind movement was somewhat less than normal. Average velocity, 6.6 miles per hour. Prevailing direction southwest. Maximum velocity 32 miles per hour from the southwest on the 9th.

SNOW DEPTHS: Comparative figures for 1926, 1927 and 1928 are submitted as follows:

STATION	1926 Inches	1927 Inches	1928 Inches
Crovice	16	18	6
Canyon	24	24	12
Gallatin	14	9	6
Hellroaring	2	13	4
Lake	14	20	9
Mammoth	Trace	3	2
Riverside	12	15	10
Snake River	16	20	22
Sylvan Pass	26	23	10
Cooke	18	26	12
Tower Falls	4	14	4
Upper Slough Creek	14	23	9

The depths at other points are as follows: Old Faithful 10 to 12 inches, Norris 10, Seven Mile Post north of Snake River Station 30, Sportsman Lake 18, and maximum depths in Gibbon Canyon and on the Norris-Canyon Divide 14. The average depth along the highway between Mammoth Hot Springs and Buffalo Ranch was approximately 5 inches at the close of the month.

900 - Miscellaneous

Post Office: There is nothing to report in the post office activities beyond the usual winter work.

Church Services: No Sunday services were held during the month of November. English Lutheran services were held in the Lodge Room by Rev. Webster H. Clement, of Livingston, Mont., on Tuesday evening, November 6th.

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[illegible]

Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

THE OFFICE OF THE ATTORNEY GENERAL, DEPARTMENT OF JUSTICE, WASHINGTON, D.C. 20530

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10. The above information is true and correct to the best of my knowledge and belief.

As reported in the first paragraph of this report the new bell was installed in the Chapel and rung for the first time by Judge Meldrum, whose donations assisted largely in its purchase in August 1924. This 414# bell cost, including freight charges from St. Louis, Mo., a total of \$187.10, is cast from best quality of copper and tin, and is guaranteed against breakage for 15 years from date of purchase, by the manufacturers, St. Louis Bell Foundry.

Hospital and Medical Service: Resident Physician Dr. Howard C. Anderson left the park en route to Pomona, Calif., where he is locating. Dr. Frank C. Grace of Minnesota has been selected by Dr. Winiger to succeed Dr. Anderson. His appointment is effective December 1st, 1928.

- - - - -

Very truly yours,

M. F. Jann
Acting Superintendent.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

T R A V E L R E P O R T

Y. L. L. D. S. T. H. L.

National Park for the Month of ~~NOVEMBER~~, 1928

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
<u>PRIVATE TRANSPORTATION:</u>						
Cars first entry,	307	899	103	655	244	37
Cars reentry,		36				
Motorcycles,		3				
Total motor vehicles,	307	938	103	655	283	43
Persons entering via motor vehicles,	907	2647	317	1842	805	44
Persons entering via other private transportation,	907	2647	317	1842	805	44
Total persons entering via private transportation,						
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages, .						
Persons entering via trains, .						
Persons entering otherwise, .						
Total other transportation, .						
GRAND TOTAL ALL VISITORS, . .	907	2647	317	1842	805	44

	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

Report for the Month of _____, 19__

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

PRIVATE TRANSPORTATION

First entry,	207	202	207	202	207
Reentry,					
Motorcycles,					
Total motor vehicles,	207	202	207	202	207
Persons entering via motor vehicles,	207	202	207	202	207
Persons entering via other private transportation,	207	202	207	202	207
Total persons entering via private transportation,	207	202	207	202	207

OTHER TRANSPORTATION:

Persons entering via stages,					
Persons entering via trains,					
Persons entering otherwise,					
Total other transportation,					
<u>GRAND TOTAL ALL VISITORS,</u>	<u>207</u>	<u>202</u>	<u>207</u>	<u>202</u>	<u>207</u>

Increase	Number Percent	Last Year	This Year

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

~~YALLOUTY~~ National Park for the Month of ~~NOVEMBER~~ 1928

	This Month	This Month Last Year
Number of employees beginning of month	70	64
Number of additions.	0	5
Total	70	69
Number of separations.	2	2
Number of employees close of month	68	67

Number of promotions during month, 0

Aggregate amount of annual leave taken 147 83 1/2
Aggregate amount of sick leave taken 10 1
Aggregate amount of leave without pay. 11 43

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

National Park for the Month of

This Month Last Year	This Month	
64	70	Number of employees beginning of month
0	0	Number of additions
64	70	Total
5	5	Number of separations
67	68	Number of employees close of month

247	247	Aggregate amount of annual leave taken
1	1	Aggregate amount of sick leave taken
11	11	Aggregate amount of leave without pay

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

~~Yellowstone~~ National Park for the Month of ~~November~~, 1928

	This Year	Last Year
Park revenue on hand beginning of month,	None	None
Received,	\$ 1,387.72	\$3,514.58
Total,	\$ 1,387.72	\$3,514.58
Remitted,	\$ 1,387.72	\$3,514.58
On hand close of month,	<u>None</u>	<u>None</u>

Park revenues received this year to date,	\$ 153,286.63
Park revenues received last year to date,	\$ 132,490.51
Increase,	\$ 10,796.12
Percent of increase,	<u>8</u>

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

National Park for the month of _____

Last Year	This Year
--------------	--------------

On hand close of month,

Remitted,

Total,

Received,

Park revenue on hand beginning of month,

Park revenues received last year to date,

Park revenues received this year to date,

Increase,

Percent of increase,

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of NOVEMBER, 1928

	This Month	This Month Last Year	Increase	Percent Increase
--	---------------	----------------------------	----------	---------------------

LOCAL BUSINESS

Miles of circuit maintained,	498	462	36	.078
No. of telephones connected,	151	146	5	.035
No. of measured service calls,				
No. of other local calls,				
Total No. of local calls,	4658	6320	-1662	-.27
Peak load in calls per day,	254	296	- 42	-.14

Receipts from measured service calls, . . .
 " " coin boxes,
 " " telephone rental,

TOTAL RECEIPTS

LONG DISTANCE BUSINESS

No. Outbound calls,	53	94	-41	-.44
No. Inbound calls,	70	116	-46	-.40

TOTAL LONG DISTANCE CALLS

Peak load in calls per day,	12	14	- 2	-.14
Receipts from Long Distance business, . . .		\$107.75		

(All of this revenue accrues to the Mountain States Telephone & Telegraph Co.)

TELEGRAPH BUSINESS

Messages via Western Union,
 Messages via

TOTAL MESSAGES

Receipts from telegraph business,
 No. of money transfer messages,
 " " " " receipts,

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-

National Park for the Month of

This Month	Last Year
Increase	Percent Increase

Line	Category	Value	Unit
1	Peak load in calls per day	458	
2	Total No. of local calls	458	
3	No. of other local calls	100	
4	No. of measured service calls	100	
5	No. of telephones connected	100	
6	Ratio of circuit maintained	100	

"	"
"	" coin boxes; "
"	" telephone rental.

TOTAL RECEIPTS

ONE DISTANCE BUSINESS

c. Outbound calls		75			
c. Inbound calls		76			

TOTAL LONG DISTANCE CALLS

Accepts from Long Distance business.
Peak load in calls per day.

TELEGRAPH BUSINESS

1. 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352

TOTAL MESSAGES

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-					
	"	"	"	"	"
Receipts from telegraph business.					
of money transferred					
receipts,					

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

~~Y. 1. 1928~~ National Park for the Month of ~~NOVEMBER~~ 1928.

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	56220.	370470.0	49300.	354080.0	16390.	4.6%
Sold to park operators,	4868.1	93132.6	2229.5	77351.1	15781.5	20.4%
Sold to others,						
Furnished to other Governmental agencies,						
Used by National Park Service, lost in transit, etc.,	51351.9	277337.4	47070.5	276728.9	608.5	0.3%
Total current generated, . . .	56220.0	370470.0	49300.0	354080.0	16390.0	4.6%

Amount receivable from the sale of electricity, \$ 243.40

* Indicated by K. W. H.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

National Park for the Month of _____, 19__.

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

Total current generated,
 Sold to park operators,
 Sold to others,
 Furnished to other Governmental
 agencies,
 Sold by National Park Service,
 lost in transit, etc.,
 Total current generated,

Amount receivable from the sale of electricity, \$ _____

Indicated by K. W. H.

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

November
~~October~~ 7, 1928.

CIRCULAR NO. 23.

Effective immediately, and until further notice, Park Ranger Edward E. Ogston (Position No. 54) is hereby designated Acting Assistant Chief Ranger of Yellowstone National Park and will temporarily fill the vacancy created by the promotion of Assistant Chief Ranger Harry J. Liek (Position No. 50) to the superintendency of Mt. McKinley National Park. Mr. Ogston is tentatively placed in charge of the Southern District and will move immediately to the Lake Station to take over his new duties.

For the present we will not appoint anyone to act as predatory animal hunter, vice Ranger Ogston, but this work will be carried on by rangers in the Northern District designated by the Chief Ranger.

M. F. Daum
Acting Superintendent

