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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

YELLOWSTONE NATIONAL PARK

YELLOWSTONE PARK, WYO.

OF THE SUPERINTENDENT

November 4, 1932

The Director
National Park Service
Washington, DC

Dear Mr. Director:

Following is a report of the activities of Yellowstone National Park for the month of October, 1932.

000 - General

010 - Activities were rather quiet in the park during the month, with few visitors to take care of, but it was possible for our road crews to work until almost the end of the month, the last of the crews being released on November 1. The closing of the road through Golden Gate to travel on November 3 prohibited any further travel into the interior of the park and it was deemed advisable to bring in all of our crews for the year. The month was very favorable for travel and with no roads blocked, by the end of the month it was even possible to negotiate the east and south entrance highways. Several snow storms occurred during the month but these did not tie up traffic completely. Accommodations were available at Old Faithful until October 15, on which date Mr. Hamilton closed his store at that point.

020 - General Weather Conditions

(Summary of weather conditions will be found at the back of this report)

100 - Administration

110 - Status of Work

Superintendent Toll left the park on October 3, spending that night at Grand Teton Park and continuing on the next day to Salt Lake City. After an inspection trip in Utah, he continued on to Denver and will be away from this park until sometime in May, to be engaged on work in connection with the inspection of proposed parks and monuments. Assistant

Superintendent Edwards became Acting Superintendent following Superintendent Toll's departure.

In order to keep the work current, some over-time was necessary especially around the first of the month. The Economy Bill has necessitated a great deal of additional work and with reports and payrolls required to be in Washington on certain dates, this cannot be done with our present personnel without some over-time. Our clerical personnel are taxed to their full limit in trying to keep the work current. An examination announced for filling positions in the Thirteenth District for the Bureau of Public Roads caused many of our men to take the examination and the local board of civil service was burdened with new duties.

Several of our employees took a part of their furlough leave during the month and we are working with a minimum of personnel. This will be the case for some time yet as all of our permanent personnel will be entitled to 24 working days and will take at least a part of it this fall, pay for which has been deducted from their salaries.

120 - Park Inspections By:

121 - Acting Superintendent

Superintendent Toll left the park via the south gate on October 3 and trips were made by the Acting Superintendent during the month as follows:

- October 2 - To Livingston to meet Col. Arthur Woods and Vanderbilt Webb, spending the night in Livingston.
- 3 - From Livingston to park with Col. Woods and Vanderbilt Webb and proceeding to Grand Teton Park for the night.
- 4.- Returned to the park from Grand Teton Park.
- 7 - To Livingston to attend Annual Game Meeting, returning to park for night.
- 10 - To Cody with Assistant to Superintendent Joffe to attend annual banquet of Cody Club; night in Cody.
- 11 - Returned from Cody to West Yellowstone where met Col. Woods and Mr. Webb and proceeded on with them to Bozeman, Montana, for night.
- 12 - Returned from Bozeman to park
- 13 - To Hebgen Dam near West Yellowstone with Chief Ranger Baggley for conference with William Corey, the man who donated \$15,000 for the Lake Fish Hatchery.
- 17 - To Livingston for Rotary meeting, returning home for night.
- 19 - To Livingston in evening for attendance American Legion meeting, returning Mammoth for night.
- 21 - To East Entrance with oil expert Goodwin to look over road matters; returning Mammoth for night.

Report of the Committee on the Administration of the Government of the District of Columbia

In order to keep the Government of the District of Columbia from becoming a mere rubber stamp of the Federal Government, it is necessary that the Government should be organized on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability.

Several of the members of the Committee have suggested that the Government should be organized on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability.

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The Committee has also considered the possibility of organizing the Government on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability. The Government should be organized on a basis of responsibility and accountability.

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- 19 - The Committee has also considered the possibility of organizing the Government on a basis of responsibility and accountability.
- 20 - The Committee has also considered the possibility of organizing the Government on a basis of responsibility and accountability.

- 27 - To Livingston with Assistant to Superintendent Joffe to attend Dude Ranchers' Convention. In evening proceeded to Manhattan, Montana, for district meeting of the American Legion, returning to Livingston for night.
- 28 - Spent day in attendance Dude Ranchers' Convention.
- 29 - Spent day in attendance Dude Ranchers' Convention.
- 30 - Returned to park from Dude Ranchers' Convention.

122 - Special Field Representatives of the National Park Service.

Kenneth C. McCarter, Junior Landscape Architect, who has been on duty here during the entire summer departed for San Francisco on the 26th.

123 - National Park Service Officers

E.T. Scoyen, Superintendent of Glacier National Park, entered by the North Gate on October 11, and departed via the West Gate on the 12th.

John C. Preston, Assistant Superintendent of Rocky Mountain National Park, with Mrs. Preston, entered at the South Gate, October 4 and left via the North Gate on the 5th for Glacier Park.

125 - Other Governmental Officers

R.H. Rutledge, Regional Forester, U.S. Forest Service, Ogden, Utah, entered the park at the North Gate and left via the South Gate on the 10th.

127 - Other Agencies

Herbert Maier, Architect in charge of museums and trail-side shrines, left on October 24, having spent the entire summer in the park.

140 - Labor Situation

There was little change in the labor situation. We retained some of our crews until the end of the month keeping the best men on until the last. Also, we attempted as much as possible to employ married men with families. Most of the per diem employees were released by the first of November. The Morrison-Knudsen Company, contractor on the Golden Gate job, expect to work most of the winter and some of the men released by us will find employment there. While the wages paid would hardly be considered a living wage for a man with a family, many men are anxious to get any kind of work at all and there are each winter many men living in Gardiner without employment, who will welcome this opportunity to work. Men from neighboring towns will also be able to find some employment with this contractor part of the winter, which will tend to aid conditions somewhat.

- 27 - To discuss with members of the National Park Service to attend the National Convention, to be held in the city of Washington, D.C., on October 27, 28, and 29.
- 28 - Spent day in attendance at the National Convention, to be held in the city of Washington, D.C., on October 27, 28, and 29.
- 29 - Spent day in attendance at the National Convention, to be held in the city of Washington, D.C., on October 27, 28, and 29.
- 30 - Returned to Park from the National Convention.

123 - Special Field Investigation of the National Park Service

Russell G. ... during the entire summer reported for his activities in the Park.

124 - National Park Service Officers

... the North Gate on October 11, and departed via the same route on the 12th.

John E. ... via the North Gate on the 12th for ...

125 - Other Governmental Officers

W.M. ... entered the Park at the North Gate on the 12th for ...

126 - Other Agencies

Harbert ... left on October 24, having spent the entire summer in the Park.

140 - Labor Situation

There was little change in the labor situation. ... Also, we attempted as much as possible to employ ... The ... work most of the winter and some of the ... while the wages ... for a man with a family, ... all ... want, ... time will ... of the winter, which will ...

150 - Equipment and Supplies

One carload coal, three carloads gasoline, six carloads hay, sixteen carloads sewer pipe, three carloads road oil, one carload bridge plank, one carload cement, and one carload cottonseed cake were received during the month. Miscellaneous items and equipment received include the following: three shipments of groceries having total weight of 29,763 lbs., one four-wheeled rubber-tired trailer, and one three-eighths yard gas shovel.

160 - Status of Alienated Lands

On October 20, President Hoover signed a proclamation adding approximately 7,600 acres of land, located in a triangular shape, extending $3\frac{1}{2}$ miles from Gardiner toward Livingston on the west side of the Yellowstone River, authorized by Congressional Act of May 26, 1923 (44 Stat. 655). The area is especially adapted for winter range purposes and will afford additional food for the antelope and elk which graze in this vicinity.

170 - Maps, Plans and Surveys

This activity required part time of one man on the preparation of plans and sketches of completed projects and a small amount of drafting and field work for other departments.

180 - Circulars, Placards, Publicity Bulletins, etc.

No circulars were issued during the month and no news stories were sent out from the park direct. However, several articles pertaining to the park, which were published by the Livingston Enterprise, were copied by other papers throughout the state. Several park features have been used by John Hix in his "Strange as it Seems" cartoons and have been syndicated nationally. No Nature Notes have been issued during the month but an issue will be forthcoming in the early part of November.

200 - Maintenance, Improvements and New Construction

210 Maintenance

No road maintenance was carried on other than the repair of the timber truss bridge across the Lamar River on the Cooke road. Two spans were built to correspond with the easterly span, wrecked by the Red Lodge Cooke contractor, and rebuilt early in July.

Road oiling work consisted of the preparation of approximately 400 cubic yards of premixed patching material for the Mammoth section, and a light palliative treatment to Lava Creek on the Tower Falls road.

220 - Improvements

Shops: The usual maintenance work was carried on.

Electrical Department - Usual maintenance work done around Mammoth and at points in interior of the park so long as weather conditions permitted. Heavy repairs were made to nine corner poles on the joint telephone line from Apollinaris Spring, such as re-guying and double arming. One-half mile of the telephone line near West Thumb which was unsightly from the highway was re-located. All of the brush cut last year on account of clearing for the new telephone line from West Thumb to the south entrance was burned and cleaned up and the brush cut this year for the new telephone line construction from the east entrance was burned and cleaned up. One new telephone was installed at the game ranch and one was placed in the McCarty's quarters at the south entrance.

Painting Department.- Usual maintenance and repair work done.

Carpenter Shop - Usual repairing and maintenance of various buildings was carried on.

Sanitation Department - Maintained and operated water systems, sewer systems, refrigerating plants, heating plants, hauled garbage, kept offices and buildings clean, operated chlorine machines for sewage systems and tested residual chlorine, also general repair and maintenance work was done on various buildings throughout the park. Changed plumbing system at Old Faithful ranger station so that it can be used during the winter. Installed heating system in bachelor building.

230 - New Construction

Project 484 - Mammoth Sewer - Completed on October 7 and crew disbanded.

Project 501 - Parking Areas - Three projects were under way during the month under this project number, two at points immediately north and south of Obsidian Cliff and at the Norris Museum. The area south of the cliff was completed with 393 feet of dry wall curb laid and 200 cubic yards of material borrowed for fill material. At the area north of the cliff all grading was completed and 50 feet of wet rubble curb laid but freezing weather made it necessary to stop all cement work and the crew was laid off on October 21. The area at Norris Museum was nearly completed as far as grading operations on the parking space proper were concerned but the laying of rock curbing was not attempted because of low temperatures.

Project 553 - Artist Point Road Surfacing and Oiling - In the preparation of the grade preparatory to surfacing, 1200 yards of borrowed material was placed in building up shoulders and settlement and 1725 lineal feet of six-inch drain tile installed. Seven hundred yards of coarse gravel was also hauled from borrow pits to cover drain tile and backfill drain ditches. The first crushed rock surfacing was laid down on October 6 and this item of work completed on October 21, with approximately 3500 cubic yards of surfacing spread.

1. General Information - This report contains information regarding the project and the work done during the period covered by this report. It is intended to provide a general overview of the project and to serve as a basis for the more detailed reports to be prepared in the future.

2. Objectives and Scope - The objectives of this project are to determine the feasibility of the proposed system and to design a preliminary system architecture.

3. Methodology - The methodology used in this project is based on the principles of systems analysis and design. The project was carried out in a systematic and organized manner.

4. Results and Discussion - The results of the project are discussed in this section. It is found that the proposed system is feasible and that a preliminary system architecture has been developed. The discussion also covers the limitations of the study and the recommendations for further work.

5. Conclusions - The conclusions of this project are that the proposed system is feasible and that a preliminary system architecture has been developed.

6. References - The references cited in this report are listed in this section. They include books, articles, and reports that have been consulted during the course of the project.

7. Appendix - The appendix contains the detailed system architecture and other supporting information. It is intended to provide a more complete picture of the project and to serve as a reference for the more detailed reports to be prepared in the future.

8. Summary - This section provides a brief summary of the project and its findings. It is intended to provide a quick overview of the project and to serve as a basis for the more detailed reports to be prepared in the future.

Project 526.3 - Grand Geyser Trail - One thousand feet of this project were completed before the crew was disbanded on October 20 because of inclement weather. One short rustic type bridge and approximately 350 feet of trail remain to be built next spring.

Project 542 - Canyon Junction-Tower Falls Cleanup - All cleanup and burning completed and the crews disbanded on October 21.

Project 541 - Obsidian Cliff-Firehole Cascades Betterment - Work closed down on the last day of the month with accomplishments as follows: cut slope treatment, 1740 feet; fill slope treatment, 4700 feet; oil mat gutter, 1600 feet; drainage tile installed, 6375 feet.

Project 549 - East Entrance Road Betterment - Work closed down on October 31 because of weather conditions. Fourteen thousand seven hundred feet of drainage tile installed and 9,800 feet of fill slope treatment carried out during the month.

Project 558 - Obsidian Cliff-Terraces Cleanup - This project was started on October 1, with funds transferred for post-construction maintenance by the Bureau of Public Roads. Roadside cleanup covered 7 miles during the month with approximately 60% of the cleared material burned. One hundred twenty yards of selected material was placed on the northerly mile of the project where no surfacing had been spread by the contractor.

Project 550 - Inspiration Point Road Cleanup - One thousand feet of cut slope treatment was completed during the month, the resulting material being utilized to flatten slopes on fill sections and the coarser material hauled to the parking area of the bear feeding ground for fills.

Project 525.10 - Bear Feeding Ground Road & Parking Area - No work undertaken other than preliminary engineering and the hauling of material mentioned above.

Contract Projects -

Work on the Mammoth-Tower Falls road between Tower Falls and Lava Creek was progressing rapidly, finishing being practically completed to a point three quarters of a mile above Blacktail Deer Creek and rough grading 60% complete on the balance of the section. The concrete arch bridge over Tower Creek was completed sufficiently to carry traffic on October 26 and the contractor started removal of the old steel span.

On October 12 bids were opened by the Bureau of Public Roads' Office in Denver for the grading of the Golden Gate road in Yellowstone and award was made to Morrison Knudsen at \$118,665.50. The contractor began clearing and grubbing on the north end of the project on October 25 and also began preparatory work on the tunnel and viaduct items.

Contractors McNutt and Lyle were ordered to close down their activities on their section of the Red Lodge-Cook job on October 22.

On October 11 bids were opened by the Bureau of Public Roads for the grading of the Southwest Approach Road to Yellowstone Park. The contract was awarded to Max J. Kuney Company, Spokane, Washington at \$184,522.

Project 523.5 - Lower Creek - This project was completed before the area was abandoned on October 31 because of inclement weather. The area within the project was abandoned and the rest of the area to be built later.

Project 523 - Lower Creek - This project was completed on October 31 because of inclement weather.

Project 521 - Lower Creek - This project was completed on the last day of the year with approximately 100,000 feet of drainage tile installed and 1,000 feet of fill slope treatment completed. The area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Project 520 - Lower Creek - This project was started on October 1, with funds transferred on October 15 from the previous project. The area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Project 520 - Lower Creek - This project was started on October 1, with funds transferred on October 15 from the previous project. The area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Project 520 - Lower Creek - This project was started on October 1, with funds transferred on October 15 from the previous project. The area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Project 520.10 - Lower Creek - This project was started on October 1, with funds transferred on October 15 from the previous project. The area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Contract Projects

Work on the Lower Creek project was completed on October 31 because of weather conditions. Further drainage work was not done during the season.

On October 15, the area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

Contractors were ordered to close down their activities on their section of the project on October 31.

In October 15, the area was abandoned on October 31 because of weather conditions. Further drainage work was not done during the season.

300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

By the 13th of October there were no sleeping accommodations available in the park for visitors as on that date Mr. C.A. Hamilton closed his Old Faithful store and left the park. With the exception of Mr. Hamilton's store at Old Faithful all other operations in the park were closed by the first of October. The general store at Mammoth will remain open all winter to serve Mammoth residents.

Mr. H.B. Brown, General Superintendent of the hotels, departed on October 1 and Mr. Vernon Goodwin, President of the Lodge and Camps Company left the park on the second. C.A. Hamilton left the park on October 14. Mrs. Anna K. Pryor and Miss Elizabeth Trischman departed on October 15, and J.E. Haynes left on the 25th.

400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

The entire month was spent by the protection department on preparing the snowshoe cabins and ranger stations for winter use and the patrolling of the park boundary line due to the opening of the hunting season in the adjoining states.

The Chief Ranger was in attendance at the Dude Ranchers' Convention on October ~~27~~ 28 and 29.

Inspection trips were made by the Chief Ranger, Field Assistant and Forest Assistant during the month.

Several rangers were able to take part of their furlough during the month. Assistant Chief Ranger Miller was on furlough from October 5 to 25 and Assistant Chief Ranger Johnston from October 20 to 31.

At the end of the month all protection department matters were practically current.

420 - Museum Service

A series of Mode Wineman pictures consisting of over 100 enlargements which were received some time ago were catalogued. Six Maxmillian prints made over 100 years ago were received, also several books and pamphlets for the library.

All museums were closed and the permanent staff concentrated its efforts on completing the accessioning/and cataloging of various gifts that have been received by the museum.

100 - Activities of United States in the West

110 - Police Service

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130 - Police Service

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140 - Police Service

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440 - Insect Control

The preliminary check surveys of mountain pine beetle infested areas in Yellowstone Park were completed October 10. Five crews of two men each were actively engaged in this work over a period of approximately three weeks. All infested areas discovered and surveyed in 1931 were re-surveyed this year in order to clearly analyze the mountain pine beetle situation which has become acute during the past few seasons.

All field data was compiled in the Chief Ranger's office immediately following the survey, and detailed reports of the project have been submitted to your office, Field Educational and Forestry Headquarters and the Bureau of Entomology.

A brief resume of the results of the survey follows:

Throughout 12 widely separated areas covering a total of 117,826 acres, the survey shows an estimate of 40,590 newly infested trees. Over the same areas surveyed in 1931 there were found to be 43,999 newly infested trees.

In comparing each area separately it has been found that the ratio of reinfestation during 1932 is very nearly one to one. This, of course, points out the fact that during 1931 and 1932 there were very nearly the same number of trees attacked by mountain pine beetle. This also points out the fact that for the past two seasons there has been intense activity of the epidemic in the park.

The survey this year as in 1931, found the epidemic to be confined in the white bark pine stands of timber principally at elevations above 8500 feet. It was also found that throughout the area treated in 1931 in the Bechler river region, practically no new infestation was in evidence although the epidemic still exists in a portion of the lodgepole pine timber in this region which was not thoroughly treated in 1931.

460 - Birds

Many species of ducks are being noted by the hundreds on nearly all of the open waters in the park except in the Bechler region. The freezing over of many of the small lakes has caused the birds to congregate in the open streams in large numbers. Geese are also being noted as numerous and in large flocks. Four pair of swan, thought to be trumpeters were seen throughout the month on Marys Bay in Yellowstone Lake.

One trumpeter swan was shot and killed by a duck shooter in Hebgen Lake near west Yellowstone. The hunter was apprehended by Deputy State Game Warden Danaher, tried and fined \$37.50 and had his gun confiscated. The dead bird was given to the Park Service and was later frozen and sent to George Wright at Berkeley, California.

The preliminary check made of certain of the positive forest areas in Yellowstone Park was completed October 10. Five groups of two men each were actively engaged in this work over a period of approximately three weeks. It is noted that the weather was generally favorable throughout the year in order to clearly analyze the positive forest areas. It is noted that the weather was generally favorable throughout the year in order to clearly analyze the positive forest areas.

All field data was compiled in the chief ranger's office immediately following the survey, and detailed reports of the project were submitted to your office, which report will be ready in 15 days and the first of November.

A brief resume of the results of the survey follows:

Throughout the survey 12 widely separated areas covering a total of 117,000 acres, the survey shows an estimate of 4,000 nearly mature trees. Over the same areas surveyed in 1931 there were found to be 4,000 nearly mature trees.

In comparing each year separately it has been found that the ratio of regeneration during 1932 is very nearly one to one. This, of course, means that the fact that during 1931 and 1932 there were nearly the same number of trees cut over by mountain sheep. It is noted that the fact that the year 1932 was a year when the sheep were not very numerous in the park.

The survey this year as in 1931, found the evidence to be similar in the white pine areas of the park. It was also found that the same number of trees were cut over by mountain sheep in 1931 as in 1932. It is noted that the fact that the year 1932 was a year when the sheep were not very numerous in the park.

440 - Birds

Many species of birds were being noted by the rangers in the park. The birds were seen in the open areas in the park. It is noted that the fact that the year 1932 was a year when the sheep were not very numerous in the park.

The rangers saw and shot and killed by a deer hunter in the park. The deer was shot and killed by a deer hunter in the park. It is noted that the fact that the year 1932 was a year when the sheep were not very numerous in the park.

470 - Animals

All of the game animals are slowly but surely drifting toward their winter range. No heavy storms have occurred to drive them across the boundary lines into the open hunting territory.

All game seen, as well as forage conditions, were noted as very good.

Elk - Practically all of the elk have drifted out of the Upper Lamar Valley and Mirror Plateau. The drift of elk from the Thorofare discloses that following a storm on October 10 elk were leaving that country and drifting toward the north. On October 11, 200 elk were counted on Beaver Dam Creek. Later during the month the elk in that section showed a decided drift toward the south and west, probably heading for the Jackson Hole country. A total of 564 elk were counted on Daly Creek in the Gallatin District on October 20. The end of the month saw very few hunters around the boundaries of the park. The number of elk killed to date totals about the same as last year for the same period.

A table showing the numbers of game animals killed this year up to and including October 29 will be found at the end of this section.

Deer - Deer in small herds may be seen over the entire north side of the park. The usual number of Mammoth deer are noted. One count the last of the month disclosed 47 animals. One of these deer died on October 25. Of the number of deer in Mammoth several have been noted as in very poor or sickly condition and will, no doubt, die before the winter is over. The number of deer killed by the hunters is about the same as last year. Location and numbers killed are shown in the table.

Antelope - No count has been made of the antelope. However, they are to be seen in large numbers in the vicinity of Gardiner and the foothills of Sepulcher Mountain. Judging from the evidence found, at least one antelope has been killed by the coyotes this month.

Moose - In the Thorofare region 42 moose were counted during the past month. On October 17, 14 bulls and 8 cows were seen at one time, in one large group in that region. Several moose were also noted in the Bechler and Riverside districts. Very few of these animals are being seen in Willow Park, whereas last month they were fairly numerous. One cow was found dead in the Thorofare district on October 6, probably dying of natural causes. Another one was illegally killed near West Yellowstone.

Buffalo - Between four and five hundred buffalo were at the Buffalo Ranch at the end of the month. At least this number of animals have been drifting back and forth between the ranch and surrounding foothills all

All of the game animals are slowly but surely drifting toward their winter range. No heavy storms have occurred to drive them across the boundary line into the open hunting territory.

All game seen, as well as favorable conditions, were noted as very good.

Elk - Practically all of the elk have drifted out of the upper part of the valley and toward the west. The drift of elk from the mountains is disclosed that following a storm on October 10, elk were leaving that country and drifting toward the north. On October 11, two elk were counted on Beaver Dam Creek. Later during the month the elk in that section showed a decided drift toward the south and west, probably in part for the Jackson Hole country. A total of 504 elk were counted on July Creek in the Gallatin District on October 20. The end of the month saw very few hunters around the boundaries of the park. The number of elk killed to date totals about the same as last year for the same period.

A table showing the numbers of game animals killed this year up to and including October 29 will be found at the end of this section.

Deer - Deer in small herds may be seen over the entire upper part of the park. The usual number of deer over the mountain is about the last of the month disclosed 48 animals. One of these deer died on October 23. Of the number of deer in the month several have been noted in very poor or slightly better condition and still, no doubt, the balance of the year is over. The number of deer killed by the hunters is about the same as last year. Location and number killed are shown in the table.

Antelope - No count has been made of the antelope. However, they do to be seen in large numbers in the vicinity of Madison and the foothills of Sequoia National Park. Judging from the evidence found, at least an antelope has been killed by the coyotes this year.

Goose - In the Lapwai section 43 geese were counted during the past month. On October 17, 14 bills and 3 cows were seen at one time in one large group in that region. Several more were also noted in the section and elsewhere in the park. Very few of these geese are seen in Willow Park, whereas 1 or 2 may be seen fairly numerous. The cow was found dead in the mountains district on October 5, possibly a case of natural causes. Another cow was illegally killed near the same place.

Buffalo - Between four and five hundred buffalo were seen in the Branch at the end of the month. At least this number of animals have been drifting back and forth between the park and surrounding territory.

of the past month. The condition of these animals is noted as excellent.

Requests have been received for five live buffalo. Plans are being made for the roundup which will be held the latter part of November. The slaughter of the surplus buffalo will commence shortly after the first of December. The State of Wyoming has accepted the 50 head of buffalo which were offered to it for the relief of the needy in that state. No word has yet been received from Montana or Idaho as to whether or not they will accept their 50 animals respectively. It is our desire to supply the Indians of the Northern Montana agencies with some of this meat if at all possible.

Sheep - Nothing of interest to report.

Bears, Black and Grizzly - Damage done by the bears this past month was negligible. One grizzly bear skeleton and hide was sent to Harvard University at Cambridge, Massachusetts. Two black bears and one grizzly were killed this past month.

The following table discloses the location, species and numbers of animals taken this season up to and including October 29 in the hunting territory adjacent to the park.

	Elk	Deer	Moose	Sheep	Bears	
					Grizzly	Black
Bechler	:	2	:	:	:	:
Cooke	4	2	:	5	5	2
Crevice	:	2	:	:	:	:
Gardiner	:	4	:	:	:	:
Gallatin	40	16	:	:	:	:
Hellroaring	2	2	:	:	:	:
W. Yellowstone	49	6	1*	:	:	:
Slough Creek	29	2	:	:	:	1
Sylvan Pass	7	2	:	:	:	:
Thorofare	25	2	6	:	:	:
TOTALS	156	40	7	5	5	3

*Illegal kill

Buffalo and Other Ranch Activities - The usual routine duties were carried on during the month of October. The tractor was operated at the Buffalo Ranch for 18 days in plowing and leveling some of the hay land. One hundred ten acres at the Buffalo Ranch were leveled and seeded with timothy, alsac and brome grass. Approximately one mile of drift fence was built and the other fence repaired. It was necessary to replace the concrete floor in the slaughter house due to the settling and cracking of the old one. Various miscellaneous and minor jobs were done on the ranches, such as repairing hay corrals, etc.

The final hay figures for all ranches are as follows:

Game Preservation Ranch	30 tons
Gardiner Ranch, first cut	60 "
" " second cut	25 "
Yancey Ranch	30 "
Upper Slough Creek Ranch	180 "
Lower Slough Creek Ranch	306 "
Buffalo Ranch	<u>540 "</u>

TOTAL 1,171 tons

In addition to the 540 tons of hay at the Buffalo Ranch 40 tons of cottonseed cake was purchased to supplement the hay in order to properly feed the buffalo.

480 - Natural Phenomena

The cold weather of the month has caused a pronounced darkening of the algae. Dark green and brown shades are especially noticeable.

Hymen Terrace has shown a great decrease in flow during the last few of the month. Two-thirds of the basins on the lower expanse of the terrace are empty.

An interesting statement was made by Judge Meldrum to the Park Naturalist recently in which he said that the waters of this terrace build up the deposits of travertine at the rate of about 12 inches a year. He also pointed out how Hymen Terrace has extended its basins to the north approximately 30 feet and in places 10 feet in depth during the 38 years that he had viewed it.

Diana, Minerva and Cleopatra Terraces do not show any noticeable change for the month.

Mound Terrace shows a slight increase in flow on the northeast slope.

Jupiter Terrace shows a slight increase in flow. Shades of green, white, and pink coloring are quite vivid at the top of the terrace while lower slopes are a dingy yellowish brown.

Blue Springs for a portion of the month overflowed to the south but now all flow is confined to the east toward Jupiter Spring and to the northeast toward Pulpit Terrace. The coloring is chiefly dark green and brown. One or two basins are still light blue in color. An isolated spring 75 feet to the north is overflowing.

Baby Spring is building up several basins six to eight inches high to the west of the main crack or vent. The main flow of water is following the road to the north and some of the basins are empty.

The final day of the trip for all branches was on 10/11/51.

100	Upper Branch
100	Lower Branch
100	Yancey Branch
100	Second Old
100	Central Branch
100	Third Old
100	Fourth Old
100	Fifth Old
100	Sixth Old
100	Seventh Old
100	Eighth Old
100	Ninth Old
100	Tenth Old
100	Eleventh Old
100	Twelfth Old
100	Thirteenth Old
100	Fourteenth Old
100	Fifteenth Old
100	Sixteenth Old
100	Seventeenth Old
100	Eighteenth Old
100	Nineteenth Old
100	Twentieth Old
100	Twenty-first Old
100	Twenty-second Old
100	Twenty-third Old
100	Twenty-fourth Old
100	Twenty-fifth Old
100	Twenty-sixth Old
100	Twenty-seventh Old
100	Twenty-eighth Old
100	Twenty-ninth Old
100	Thirtieth Old
100	Thirty-first Old
100	Thirty-second Old
100	Thirty-third Old
100	Thirty-fourth Old
100	Thirty-fifth Old
100	Thirty-sixth Old
100	Thirty-seventh Old
100	Thirty-eighth Old
100	Thirty-ninth Old
100	Fortieth Old
100	Forty-first Old
100	Forty-second Old
100	Forty-third Old
100	Forty-fourth Old
100	Forty-fifth Old
100	Forty-sixth Old
100	Forty-seventh Old
100	Forty-eighth Old
100	Forty-ninth Old
100	Fiftieth Old

TOTAL 1,571 tons

In addition to the 150 tons of hay at the British Camp 45 tons of cottonseed cake was produced by the mill and the hay to be taken to the mill.

480 - British Branches

The cold weather of the month was a great help in determining the class. The weather was generally very cold.

The weather has shown a great decrease in the amount of the hay of the month. The amount of the hay is very low.

An interesting feature of the month was the fact that the weather was very cold. The weather was very cold and the hay was very dry. The weather was very cold and the hay was very dry.

480 - British Branches

The weather was very cold and the hay was very dry. The weather was very cold and the hay was very dry.

The weather was very cold and the hay was very dry. The weather was very cold and the hay was very dry.

The weather was very cold and the hay was very dry. The weather was very cold and the hay was very dry.

The activity to the east is increasing and the cracks about it are widening. Several large masses of the dry formation have been loosened and have fallen down the slope.

Main Terrace shows a slight flow at both ends of the formation.

The Steaming Fumarole to the south of Cheops Mound shows no change and there is no change on Narrow Gauge

Orange Spring Mound - here the flows continue on the west slope as during the summer.

Highland Terrace is increasing in flow and beauty of color. Green-yellow and tan shades of algae predominate.

White Elephant Back Terrace - with snow on the ground a crack was plainly visible which extends across the road 100 feet from the terrace.

Angel Terrace - The flow from the crack on the north has increased slightly. During the month hot water flowed from the highest vent, which was so active in April. The main flow continues on the south end of the formation.

Steam is in evidence coming from the roots of a decayed tree 30 feet from the south vent. It is possible that greater activity may break out at this point.

NORRIS BASIN

Emerald Spring was observed on October 5 as a huge, deep blue pool filled to overflowing and boiling slightly in the eastern part. It was fuller than anyone has previously recorded. The next day it was a violent geyser and had thrown out such a tremendous volume of water that the lower basin has been flooded and fairly deep channels cut in the floor of the basin. It has continued to erupt at fairly regular intervals up to the present time. Its eruptions are even more violent than last year; a new vent has opened near the north end.

No observations had been made in the Upper Basin area at the time of writing this report.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

Following are the travel figures for the month of October, beginning September 26 and ending October 31, inclusive:

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<u>Entrance</u>	<u>Cars</u>	<u>Visitors</u>
North	350	1806
West	600	2050
East	325	1145
South	92	276
TOTAL	1567	5277

520 - Special Visitors

- Borell, A.E., Berkeley, California, ranger-naturalist Yosemite National Park, with Mrs. Borell, in Gardiner October 15, out south, October 19.
- Chief Max Big Man, Crow Agency, Montana, chief of Crow tribe, in Gardiner October 29, out Gardiner, October 30.
- Martin, Rene, and Louis Chevrillon, Paris, France, distinguished French engineers, in ^{Cody} October 7, out west gate October 8.
- Webb, Vanderbilt and Col. Arthur Woods of New York, representatives of the Rockefeller Foundation, in north, October 3, going direct to Grand Teton National Park, returning via south gate October 11 and out west on same date, proceeding on to Bozeman, Montana.

600 - Protection

620 - Fire Protection

There were no fires during the month of October, although weather conditions during the fore part of the month were exceedingly favorable for fires had any started. Snows later in the month provided satisfactory conditions for brush burning, however, and this activity was carried on for approximately two weeks. All brush resulting from telephone line right-of-way clearances, building operations, and roadside cleanup during this field season, has been disposed of. A five-man crew was employed for burning all brush except that accumulated by roadside cleanup, and this system of brush disposal has been found to work out very satisfactorily. The crew traveled by truck throughout the park burning the brush in each district. By this system of brush disposal, efficient work can be accomplished under satisfactory supervision.

The annual fire report for Yellowstone has been prepared and submitted this month. The records show a total of 23 fires inside of the park and one fire outside the park. The total acreage burned amounts to 2048.55, of which 2020 acres were consumed by one fire - the Mirror Plateau fire. One or two small expenditures, not at present submitted on the cost of fires for 1932, will be submitted later. The costs as figured to date on all fires this season are \$9,051.11

<u>Year</u>	<u>Value</u>	<u>Percentage</u>
1951	100	100
1952	100	100
1953	100	100
1954	100	100
1955	100	100
1956	100	100
1957	100	100
1958	100	100
1959	100	100
1960	100	100

Table 1 - 1951-1960

The following table shows the percentage of the total population of the United States in each of the five-year periods from 1951 to 1960. The population of the United States in 1951 was 150,000,000. The population of the United States in 1960 was 170,000,000. The percentage of the total population of the United States in each of the five-year periods from 1951 to 1960 is shown in the following table.

Table 2 - 1951-1960

Table 3 - 1951-1960

The following table shows the percentage of the total population of the United States in each of the five-year periods from 1951 to 1960. The population of the United States in 1951 was 150,000,000. The population of the United States in 1960 was 170,000,000. The percentage of the total population of the United States in each of the five-year periods from 1951 to 1960 is shown in the following table.

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630 - Accidents

October 25: Government Ford, model A coupe, driven by Assistant Park Naturalist Crowe collided with a Ford model T, driven by M.H. Owens of Minot, South Dakota. Accident occurred on a very foggy stretch of road at Norris Geyser Basin. Mrs. A. Smith, who was riding with Mr. Owens was the only injured party. She sustained a cut on her mouth and her upper plate was broken. Damage to the government Ford consisted of bent frame, broken bumper bracket, left front fender flywheel housing, clutch case, draglink, tie rod, tumbler, brake rod, front spring, fan guide pulley and lamp tie rod. Damage to Mr. Owens' Ford consisted of broken windshield, radius rod, tire, front axle, tie rod, draglink, two fenders on left side and one splash guard and front spring.

640 - Destruction of Predatory Animals

Twenty two coyotes were destroyed, as compared with 25 in 1931 and nine in 1930.

900 - Miscellaneous

Postoffice

Postal business was slightly heavier than usual for October, due probably to the large number of men still working in the park.

The usual process of moving from summer to winter quarters was avoided this season, as the heating plant in the summer quarters was restored so it will not be necessary to move hereafter.

Church Services

Church services were held in the Chapel Sunday evening, October 9, and again Sunday evening, October 30, by Rev. S.M. Smith, of Livingston. Services were also held in the Lodge Room the evening of Monday, October 31, by Rev. Webster H. Clemens, pastor of the English Lutheran Church in Livingston.

Hospital and Medical

Dr. Bideaff, resident physician, made 56 house calls and had 260 office calls during the month.

The general depression had little effect on marriages this month as there seemed to be an epidemic of them in the park and of park employees. Ralph K. Williams and Betty Kartes of Bozeman, Montana, were married in the park chapel at Mammoth Hot Springs on Sunday, October 9, Rev. Sam McCarthy of Livingston officiating.

Frank Mattson, Junior Landscape Architect, assigned to duty in the

Yellowstone this summer, was married to Miss Hildur Freeberg of Eveleth, Minnesota at Eveleth, on October 12. The couple returned to the park on the 15th and a reception was held for them in the McCarter home the following day.

Mr. Jack Aiton, Park Ranger, and Miss Miriam Horkan, clerk in the Chief Ranger's office, were married at Idaho Falls, Idaho, on October 22. The couple will spend the winter at Old Faithful where Mr. Aiton has been assigned to duty.

Clarence McDougal, employed with the road oiling crew during the past summer was married on October 27 in Livingston to Miss Marjorie Mitchell, daughter of Mr. and Mrs. C.A. Mitchell, who are in charge of the Mammoth mess. Miss Mitchell was employed at the Old Faithful mess during the past summer.

On October 29, Chief Max Big Man, chief of the Crow tribe, with his daughter, Myrtle, were guests of the park force and gave an entertainment at the Mammoth canteen consisting of a talk by Chief Max and the singing of several Indian songs by his daughter. Several reels of motion pictures were shown during the program and those who attended were greatly pleased with the entertainment.

Yours very truly

Guy D. Edwards
Acting Superintendent

Following this matter, we wish to have your attention directed to the fact that the above information is for your information only and is not to be used for any other purpose. The information was obtained from the files of the FBI and is being furnished to you for your information only.

It is noted that the above information was obtained from the files of the FBI and is being furnished to you for your information only. The information was obtained from the files of the FBI and is being furnished to you for your information only.

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Very truly yours,

Special Agent in Charge
Federal Bureau of Investigation

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

10-157
July, 1929)

TRAVEL REPORT

YELLOWSTONE National Park for the month of OCTOBER, 1932

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
<u>PRIVATE TRANSPORTATION:</u>						
Cars first entry,	1478	1478	1855	1855	-377	20
Cars reentry,	89	89	182	182	-93	51
Motorcycles,						
Total motor vehicles,	1567	1567	2037	2037	-470	23
Persons entering via motor vehicles,	5277	5277	5934	5934	-657	11
Persons entering via other private transportation,						
Total persons entering via private transportation,	5277	5277	5934	5934	-657	11
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages, . .						
Persons entering via trains, . .						
Persons entering otherwise, . . .						
Total other transportation, . . .						
GRAND TOTAL ALL VISITORS, . . .	5277	5277	5934	5934	-657	11

	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

50-187
July 1939

TRAVEL REPORT

National Park for the month of _____, 1939

	This Month	Last Month	This Year To Date	Last Year To Date	Increase or Decrease for Travel Year	Percent
Private Transportation						
Persons entering via other private transportation	1478	1478	1478	1478	-	0%
Persons entering via motor vehicles	97	97	97	97	-	0%
Total persons entering via private transportation	1575	1575	1575	1575	-	0%
Persons entering via stage						
Persons entering via train						
Persons entering otherwise						
Total other transportation						
AND TOTAL ALL VISITORS	1575	1575	1575	1575	-	0%

Includes in public camps during month

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of October, 1932

	This Year	Last Year
Park revenue on hand beginning of month,	\$3,729.95	\$1,533.00
Received,	3,278.45	6,820.80
Total,	\$7,008.40	\$8,353.80
Remitted,	6,634.00	8,353.80
On hand close of month,	\$ 374.40	-0-

Park revenues received this year to date, \$101,103.06

Park revenues received last year to date, 155,480.84

~~In~~crease, 54,377.78

Per cent of ~~In~~^{de}crease, 34.9739

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

National Park for the Month of October, 1921

Year	1921	1920
On hand close of month	1,571.40	1,571.40
Remitted	2,300.00	2,300.00
Total	3,871.40	3,871.40
Received	2,300.00	2,300.00
Park revenue on hand beginning of month	1,571.40	1,571.40

Park revenues received this year to date, 1921, \$3,871.40
 Park revenues received last year to date, 1920, \$3,871.40
 Increase, \$0.00
 Per cent of increase, 0%

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of OCTOBER, 1932

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	78	495	78	226
Number of additions	0	29	1	103
Total	78	514	79	329
Number of separations	4	391	4	91
Number of employees close of month	75	123	75	238
Number of promotions during month	0		0	
Aggregate amount of vacation ^{furlough} leave taken	229		261-1/4	
Aggregate amount of sick leave taken	11		6	
Aggregate amount of leave without pay			4	

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONENational Park for the Month of OCTOBER, 1932

	This Month	This Month Last Year	Increase	Percent Increase
<u>LOCAL BUSINESS</u>				
Miles of circuit maintained,	542	532	10	2
No. of telephones connected,	194	186	9	4
No. of measured service calls,				
No. of other local calls,				
Total No. of local calls,	5037	4937	100	2
Peak load in calls per day,	225	247	-22	-9

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

TOTAL RECEIPTSLONG DISTANCE BUSINESS

No. Outbound calls,	158	243	-85	-35
No. Inbound calls,	124	193	-69	-35

TOTAL LONG DISTANCE CALLS

Peak load in calls per day,	12	15	-3	-20
Receipts from Long Distance business, . . .				

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 SERVICE

REPORT OF TELEPHONE AND TELETYPE BUSINESS

National Park for the Month of August, 1951

Telephone

Personal Inquiries	Increase	This	
		Month	Last Year

TELEPHONE BUSINESS

10	10	100	100	100	100	100	100
1	1	100	100	100	100	100	100
1	1	100	100	100	100	100	100
1	1	100	100	100	100	100	100

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TELETYPE BUSINESS

10	10	100	100	100	100	100	100
1	1	100	100	100	100	100	100

TELETYPE BUSINESS CALLS

10	10	100	100	100	100	100	100
1	1	100	100	100	100	100	100

TELETYPE BUSINESS

10	10	100	100	100	100	100	100
1	1	100	100	100	100	100	100

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC

YELLOWSTONE National Park for the Month of OCTOBER, 1932

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	64142	223960	62540	312750	-88790	-31
Sold to park operators,	934	32895	1680	47112	-14217	-30
Sold to others,						
Furnished to other Governmental agencies,						
Used by National Park Service, lost in transit, etc.,	63208	191065	60860	265638	-74573	-32
Total current generated, . . .	<u>64142</u>	<u>223960</u>	<u>62540</u>	<u>312750</u>	<u>-88790</u>	<u>-31</u>

Amount receivable from the sale of electricity, \$ 46.70

Indicated by K. W. H.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

WILDLIFE DEMONSTRATION, 1950, 1951

National Park for the Month of January, 1950

YIELD

Increase for Travel Year	Travel Year	To Date	This Year		To Date	This Year	Travel Year	This Year	To Date
			Month	Last Year					
-11	-1770	12/31/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50
-10	-1614	12/31/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50
-32	-7875	12/31/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50
-11	-8870	12/31/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50	02/28/50

1950

only receivable from the date of...

Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

YELLOWSTONE

National Park for the Month of OCTOBER, 1932

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
484 - Mammoth Sewer System	99	1	15	
525.10 Bear Feeding Ground road	2	2	0	11/10/32
526.1 Trails, Old Faithful	100	0	0	
526.2 Trails, Biscuit Basin	100	5	75	
526.3 Trails, Old Faithful	90	70	20	6/15/33
527 - Surface Betterments	100	0	0	
528.2 Parking Area, Madison Museum	100	0	49	10/15/32
528.3 Parking Area, Fish Hatchery	100	100	0	
534 - Gallatin Road, Surf. & Oil	100	55	28	
541 - Obsidian Cliff-Cascades Btrmt.	95	20	25	7/1/33
542 - Canyon-Tower Jct. Cleanup & Oil	100	70	20	
544 - Norris-Madison Road, Staining rail, and seal coat	100			
546 - E. Entr. Rd., Stng. rail.	100			
547 - Terraces-Obsidian Cliff, Oil.	100	50	10	
548 - Canyon Jct. @ Tower Jct. Btrmt.	100			
549 - East Entrance Betterment	95	20	25	7/1/33
550 - Inspiration Pt. Road Cleanup	30	30	0	7/1/33
551 - Obsidian Cliff-Firehole Cascades cleanup	90	85	5	10/30/32
556 - Approach Road, Jackson Lodge	100	0	0	
553 - Artist Point Surf. & Oil	70	10	0	7/1/33
601 - Parking Areas				
.1 Norris Museum	10	10	0)
.2 Minute Man Geyser	0	0	0)
.3 Obsidian Cliff	60	55	5) 7/1/33
.4 Obsidian Cliff	100	95	5)

Balance transferred to #534

*Further work to be done under surfacing contract

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Yield National Park for the Month of ...

Project No.	Description of Projects	Percent		Date
		This Month	Last Month	
11/10/51	1.0 - ...	1	1	11/10/51
	2.0 - ...	0	0	
	3.0 - ...	0	0	
8/1/52	4.0 - ...	75	75	8/1/52
	5.0 - ...	0	0	
10/15/51	6.0 - ...	43	43	10/15/51
	7.0 - ...	0	0	
	8.0 - ...	38	38	
7/1/52	9.0 - ...	23	23	7/1/52
	10.0 - ...	30	30	
	11.0 - ...			
	12.0 - ...			
	13.0 - ...			
	14.0 - ...			
	15.0 - ...			
	16.0 - ...			
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	48.0 - ...			
	49.0 - ...			
	50.0 - ...			

Tables transferred to 1954
Further work to be done under existing contracts

SUMMARY OF WEATHER CONDITIONS
AT
MAMMOTH HOT SPRINGS, YELLOWSTONE NATIONAL PARK

October, 1932.

October is not very often colder and it is seldom snowier than the month for which the observations and records have just been completed. With an average temperature of 36.0 degrees. October, 1932, was 5.5 degrees lower than normal. The coldest October in the record from 1887 to date was that of 1919, which had an average temperature of 30 degrees. A 34 in 1905, a 35 in 1916, and a 33 in 1925 were the only other October mean temperatures lower than 36 degrees. Twelve days of the month were above normal, plus 6, occurring five times, being the greatest departure, and four days, the 12th to 15th inclusive, being the longest above normal period. This period was immediately preceded by a day with normal temperature and it was followed by one. Fifteen days averaged below normal, with minus 19 degrees, the greatest negative departure, on the 8th and 9th, and minus 18 degrees on the 7th. The average daily variation from normal temperature since January 1st is -1.5 degrees. Highest temperature of the month was 71, on the 5th; the lowest, 12 degrees, at midnight of the 30th-31st.

The frequent light snows of the month amounted altogether to 17.6 inches, a total which was exceeded in October 1925, 1919, and 1916 only. An inch of snow lay on the ground at the end of the month. Although the total snowfall was heavy, the water content was not great, and a total of only 1.01 inch of precipitation was recorded, an amount which is 0.59 inch less than the normal for the month. A trace of sleet fell on the 16th; no hail during the month. Rain fell on three dates, of which one showed only a trace. Snow, melting down to .01 inch or more, fell on 13 days, with traces on three others.

There were 6 clear days, 12 partly cloudy, and 13 cloudy. The percentage of possible sunshine was 43. The total wind movement was 5,922 miles, giving an average velocity of 8.0 miles per hour. Southwest was again the prevailing direction. The highest velocity was 29 miles per hour, from southwest, on the 27th. An aurora was observed the night of the 20th. Light fog was noted on the 16th and 17th. No thunder was heard during the month.

W. T. LATHROP, Meteorologist.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

Yellowstone Park, Wyo.; month, October, 1932.

Table with columns for Temperature (Min, Mean), Precipitation, Character of day, Percent of Possible Sunshine, and Atmospheric Pressure. Includes sub-sections for Mean for this month, Precipitation, Mean Relative Humidity, Wind, and Miscellaneous Phenomena.

NOTE.—"T" indicates trace of precipitation.

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

Lowest relative humidity observed,

19%, at 6 p.m. on 5th.

H. T. LATHROP Meteorologist

Weather Bureau.

WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION

MONTH

, 19

