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

FILE NO.

MONTHLY REPORT

DECEMBER, 1931.

DECEMBER, 1931.

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge. All Files should be returned promptly to the File Room. Officials and employees will be held responsible for failure to observe these rules, which are necessary to protect the integrity of the official records.

HORACE M. ALBRIGHT,
Director.



DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYO.

OFFICE OF THE SUPERINTENDENT

January 5, 1931.

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

Dear Mr. Director:

Following is the report of activities of the Yellowstone National Park for the month of December, 1931.

000 - General

080 - General Weather Conditions

After the 18th, every day in November was below normal in temperature. The deficiency continued into December. Until December 17th, with but three days averaging normal or slightly above, the 4th, 7th, and 8th, the temperature was below normal. From the 1st to the 16th, inclusive, in December, there was an accumulated departure of 111 degrees, or very nearly seven degrees per day. This period embraced the coldest part of the month, the 10th to the 16th, inclusive, ranging from eight to 17 degrees below normal in mean temperature, and with the extreme minimum temperature of the month, -6, on the 14th. From the 17th to the 29th, inclusive, every day was above normal, and the deficiency of the earlier portion of the month was wiped out, a small plus departure being substituted. The 30th and 31st were below normal, the month closing with a small accumulated negative departure. The average for the month was 21.3 degrees; the normal mean temperature for December is 21.6 degrees. The highest temperature of the month, 49 degrees, on the 16th, was the highest December temperature in the 43 years of record. The month averaged warmer than in 1930, and colder than in 1929.

Precipitation (all of which except .01 on the 31st fell in the form of snow) totalled 1.14 inches, which is 0.35 inch less than normal. This amount was greater than in December, 1930, and less than in December, 1929. Snow fell to a total depth of 19.6 inches. The total for December, 1930, was only 7.1 inches. The greatest snowfall within 24 hours in the month just passed was 7.0 inches, on the 25th-26th. The snow cover, measured with elimination of the effects of drifting and wind sweeping in mind, was least on the 25th, 9th, and 22nd, on each of which dates a thickness of 9.4 inches was recorded.

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYO.

U.S. GOVERNMENT PRINTING OFFICE

August 1927

THE NATIONAL PARK SERVICE
DEPARTMENT OF THE INTERIOR
WASHINGTON, D. C.

OFFICE OF THE SUPERVISOR

REPORT ON THE PROGRESS OF THE SUPERVISOR'S OFFICE
DURING THE YEAR 1926

By
A. S. MERRILL

WASHINGTON, D. C., 1927

The year 1926 has been a year of unusual activity in the history of the National Park Service. The work of the Service has been directed by the National Park Board, which has met in regular sessions throughout the year. The Board has considered many important matters, and has made many decisions which will have a lasting effect upon the Service. The work of the Service has been carried on in accordance with the plan adopted by the Board at its meeting in December, 1925. The work has been carried on in a systematic and efficient manner, and has resulted in many important accomplishments. The work of the Service has been directed by the National Park Board, which has met in regular sessions throughout the year. The Board has considered many important matters, and has made many decisions which will have a lasting effect upon the Service. The work of the Service has been carried on in accordance with the plan adopted by the Board at its meeting in December, 1925. The work has been carried on in a systematic and efficient manner, and has resulted in many important accomplishments.

The year 1926 has been a year of unusual activity in the history of the National Park Service. The work of the Service has been directed by the National Park Board, which has met in regular sessions throughout the year. The Board has considered many important matters, and has made many decisions which will have a lasting effect upon the Service. The work of the Service has been carried on in accordance with the plan adopted by the Board at its meeting in December, 1925. The work has been carried on in a systematic and efficient manner, and has resulted in many important accomplishments.

The greatest thickness of the month, 19.5 inches, was measured at 6 a.m. on the 26th. At 6 p.m. on the 31st, the average depth of snow on the ground was 15.4 inches. .01 inch, or more, of precipitation occurred on 16 days. Snow on the ground at 6 p.m., December 31, 1930, amounted to 11.0 inches.

Cloudy weather predominated during the month; there were 6 days averaging clear, 7 partly cloudy, and 18 cloudy. Sunshine averaged 32 per cent of the possible duration. December was the second month of the year 1931 in which the prevailing wind direction was other than Southwest. The month showed South winds strongly prevailing. In May North winds prevailed. December's average hourly velocity was 7.2 miles, with a maximum velocity for the month of 29 miles, from Southwest, on the 21st.

021 - In the park

The first real snowstorm this winter hit Yellowstone Park on December 25, adding new snow ranging in depth from 8" at Mammoth to 20" at Bechler River.

Following are the snow depths over the park according to drainage:

<u>Yellowstone Drainage</u>	<u>1929</u>	<u>1930</u>	<u>1931</u>	
Buffalo Ranch	6	14	16	
Canyon	20	11	22	
Cook's	30	16	20	
Cold Creek	16	6	27	
Cravice	24	18	20	
Crystal Springs	16		27	
Cub Creek	30			
Hellroaring	10	12	12	
Lake	18	10	20	
Lower Slough Creek		12	10	
Mammoth	5	11	11	
Norris	14	12	28	
Norris Canyon Divide	26	14	27	
Soda Butte			11	
Sportsman Lake	45	14		
Tower Falls			12	
Upper Slough Creek	15	14	10	
Therefare	30	14	25	
<u>Madison River Drainage</u>				
Old Faithful	11	16	36	
Riverside	10	16	36	
Madison Junction			22	



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SECRET	SECRET	1950	50	50

<u>Snake River Drainage</u>	<u>1929</u>	<u>1930</u>	<u>1931</u>
Two Ocean Plateau	30	28	40
Snake River (7 M.P.)	41	17	67
Mink Creek	33	14	35
Fox Creek	32	12	34
Aster Creek	38	21	53
Boehler River	14	19	54
Cascade			68
<u>Gallatin River Drainage</u>			
Gallatin	18		38
<u>Shoshone River Drainage</u>			
Sylvan Pass	18	10	20

Yellowstone Lake froze over on December 17. Last year this lake froze over on December 20 and on December 19 in 1929.

100 - Administrative

110 - Status of Work

Although quite a few employees were on leave during the month work was kept current. Chief Clerk Hundley was Acting Superintendent during the month in the absence of Mr. Edwards, who was on leave during the entire month. He left on December 2 to attend a forestry meeting at Spokane ^{on Dec 5} and after the meeting left for the coast.* Mr. Joffe was on leave also during the month. He left Yellowstone on December 4 for California and will be away until January 9 or 10. Miss Margaret Sabin, who was on leave the entire month of November, returned to Yellowstone on December 8. She was assisting Mr. Toll in Denver for several days until the return of Miss Whitney from California.

While on the Coast Mr. Edwards went to Mt. Rainier Park and had a short visit with Capt. Tomlinson and other park officials.

120 - Circulars, placards, publicity bulletins, etc.

Attached hereto are copies of the hunting report for the season of 1931 and December Nature Notes.

200 - Maintenance, Improvements and New Construction

Following is a brief report of the activities under the supervision of the Engineering Department for the month of December:

No construction projects were active during the month and maintenance work consisted of snow removal on the Gardiner-Burns road and the clearing of several small rock slides in the Gardiner Canyon.

Personnel of the engineering section consisted of the Park Engineer, and one roofer whose appointment was terminated on December 8. This force was su-

1941	1942	1943	1944
1000000	1000000	1000000	1000000

Information from this report is being furnished to the Bureau of Investigation for their information and use.

100 - Bureau of Investigation

100 - Bureau of Investigation

The following information was obtained from a confidential source who has provided reliable information in the past.

In the month of July, 1941, a confidential source advised that a certain individual had been seen at the home of a certain individual who is known to be a member of the Communist Party.

This individual is known to be a member of the Communist Party and is known to be active in the work of the Party.

The source further advised that this individual had been seen at the home of the above-named individual on several occasions.

It is noted that the source has provided reliable information in the past and is being furnished to you for your information and use.

100 - Bureau of Investigation

The following information was obtained from a confidential source who has provided reliable information in the past.

In the month of August, 1941, a confidential source advised that a certain individual had been seen at the home of a certain individual who is known to be a member of the Communist Party.

This individual is known to be a member of the Communist Party and is known to be active in the work of the Party.

The source further advised that this individual had been seen at the home of the above-named individual on several occasions.

It is noted that the source has provided reliable information in the past and is being furnished to you for your information and use.

gaged for the most part in working up unit cost data for the season's activities. The Park Engineer was on annual leave from December 12 to the end of the month.

Carpenter Shop: Work of this department consisted of minor repairs in buildings at headquarters.

Painting Department: Work of this department consisted of painting and plastering, laying linoleum and waxing floors in some of quarters at Harroth.

Electrical Department: The Chief Electrician was engaged in repairing telephones, installing base plugs, replacing wiring and clearing water heaters in various quarters. He substituted two days as power plant operator, and was on leave 11 days.

Sanitation Department: The following work was done by the Master Plumber and his assistants during the month: Operating and maintaining the water and sewer systems. On account of very low water it was necessary to shut down the hydro-electric plant on two occasions. Eleven heating plants for heating the administration building, garage and employees' quarters were maintained and operated during the month. One of the above plants is fired with oil fuel. Garbage and ashes were hauled and cleanup work was done daily. General maintenance to inside plumbing systems and sheet metal work on the various roofs.

THESE ARE THE ONLY TWO PAGES OF THE ORIGINAL WHICH HAVE NOT BEEN
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400 - Flora, fauna and natural phenomena

410 - Ranger, naturalist and guide service

The usual ranger activities were carried on during the entire month. Extensive patrols were made at the finish of the hunting season, which closed on December 30. The patrol camp at the DeCard Ranch was discontinued on this date. The complete hunting season report covering all activities on the hunting in the areas adjacent to the park is attached elsewhere in this report. The heavy snowstorm on Christmas day, ranging from 8" of new snow in Mammoth to 33" in Bechler River made it extremely hard skiing for the rangers on patrol in the interior of the park.

Chief Ranger Baggley was in attendance at the Forest Protection Board meeting held in Spokane. He left Yellowstone on December 3, returning the evening of December 6.

Acting Superintendent Hundley and the Chief Ranger were in Livingston on December 7 on matters pertaining to the land in the northern elk range.

The Chief Ranger and Forest Assistant left Yellowstone on December 11 for Ogden to attend the fire conference which was held from the 14th to 15th inclusive. On December 13 they attended the Forest Protection Board meeting which was also being held there. The Chief Ranger left Ogden on the evening of December 17 for Helena to attend the State game meeting. He returned to headquarters the afternoon of December 21. Fred Johnston returned to headquarters from Ogden on the evening of December 19.

420 - Museum Service:

The following report is submitted by the Acting Park Naturalist for the month of December:

II. Permanent Projects

A. Administrative

The ranger naturalist applications and information letter for 1938 were revised and mimeographed.

B. Nature Notes

The combined November-December issue of Nature Notes was franked to about 750 persons, with a stock on hand of 35 copies.

C. Library

A report on the status of the library was made to the Superintendent in the form of a memorandum. Books and pamphlets accessioned for the month total 362; pamphlets carded and filed total 180. Thirteen magazines and 1 book were received.

[Illegible title]

The first section of this report deals with the general situation of the country and the progress of the war. It is divided into three parts: the first part deals with the general situation, the second part deals with the progress of the war, and the third part deals with the economic situation.

The second section of this report deals with the military situation. It is divided into two parts: the first part deals with the military situation in the East, and the second part deals with the military situation in the West.

The third section of this report deals with the economic situation. It is divided into two parts: the first part deals with the economic situation in the East, and the second part deals with the economic situation in the West.

The fourth section of this report deals with the political situation. It is divided into two parts: the first part deals with the political situation in the East, and the second part deals with the political situation in the West.

[Illegible title]

The following report is submitted to the Board of Directors for their consideration.

[Illegible title]

[Illegible title]

The report contains a detailed account of the work done during the year and a statement of the financial position of the company.

[Illegible title]

The report also contains a statement of the assets and liabilities of the company and a statement of the income and expenses for the year.

The report is submitted to the Board of Directors for their consideration and approval. It is recommended that the Board of Directors should approve the report and the financial statements for the year.

Most of the issues of the Journal of Forestry for 1929, 1930 and 1931 were received as a gift from Mr. W. M. Rush.

D. Museum Accessions

- December 1 - Mounted elk horns, gift from Chief Ranger George W. Bagley.
- December 3 - Specimen of great gray owl (?), gift from Mr. George Mack of Gardiner, Montana.
- December 11 - Beaver study skin tanned by Jones Bros., Denver, Colo.
- December 15 - Bones from chalk cliff (on road Gardiner to Livingston), identified by University of Montana as michippus. One iron Indian dart, found in Livingston, Montana. One old rusted Springfield rifle, found near Gardiner. The three items above, received on December 15, are all gifts of Trapper J. F. V. Evans, Livingston, Mont.
- December 31 - Photograph of the second Yellowstone Park Superintendent, Col. P. W. Norris, and a panoramic view of a wagon train in the Upper Geyser Basin taken August 30, 1876. By purchase from Mr. C. Smith through the Washington Office.

E. Museum Work

The processing of the buffalo skeleton was continued.

The museum workahop was cleaned and straightened.

Two coyotes were skinned, one for use as a study specimen and the other for use as a mounting or a study specimen.

Skinned great gray owl (?).

F. Lantern Slides

No work was done on this project during the month.

G. Equipment

Received one tumbler water heater.

H. Photographs

No new negatives were received. Prints were all pasted, except for the checking of about 100, which may be duplicates. We are now ready to check the 17 volumes, revise the index and complete the title and book labels.

I. Publicity Clippings

No work was done during the month on this project.

THE UNIVERSITY OF CHICAGO LIBRARY
540 EAST 57TH STREET, CHICAGO, ILL. 60637

MEMORANDUM

TO : THE BOARD OF TRUSTEES
FROM : THE DEPARTMENT OF THE HISTORY OF ARTS
SUBJECT: PROPOSAL FOR THE ACQUISITION OF A COPY OF THE
"HISTORICAL RECORDS OF THE UNIVERSITY OF CHICAGO"
The Department of the History of Arts has the honor to
acknowledge the receipt of your letter of the 15th day of
January, 1954, regarding the proposed acquisition of a copy
of the "Historical Records of the University of Chicago"
published by the University of Chicago Press. The records
are a valuable source of information regarding the history
of the University and its activities. It is suggested
that a copy of the records be purchased for the library
of the Department of the History of Arts. The cost of the
records is \$10.00. It is suggested that the purchase be
made from the University of Chicago Press, 530 North Dear-
born Street, Chicago, Illinois.

RECOMMENDATION

It is recommended that the purchase of a copy of the
"Historical Records of the University of Chicago" be
approved. The purchase should be made from the University
of Chicago Press, 530 North Dearborn Street, Chicago,
Illinois.

APPROVED

BY: _____
DATE: _____

APPROVED

BY: _____
DATE: _____

APPROVED

BY: _____
DATE: _____

APPROVED

BY: _____
DATE: _____

J. Sales Publications (None)

K. Personnel

Assistant Park Naturalist Norman W. Scherer was on leave 13½ days; Junior Park Naturalist Norma Baggley 3 days, and Museum Caretaker Wilfred Head, 21 days.

440 - Insect Control

The annual forest insect report for Yellowstone National Park has been prepared with the exception of data pertaining to the type and insect survey work during the past season. The report will be completed within the next few days and forwarded to the proper offices.

Tracings for the work completed on the type map will be started soon and it is hoped that prints will be available some time in February. Approximately 304,491 acres were mapped in 1931, which brings the total area mapped to date to 859,347 acres.

450 - Birds

The freezing over of Yellowstone Lake caused birds in that vicinity to seek smaller areas of open water. At Steamboat Point 150 ducks and 8 swan were counted. At West Thumb 2500 ducks, with mallards and goldeneyes predominating, and 125 geese and 15 swan were observed. All of these birds were noted to be in about 5 acres of open water at the West Thumb boat dock. Clarke's Crows, camp robbers and ravens are being seen over the entire park.

470 - Animals

All animals at this time are noted to be in good condition and forage conditions are good. They are well scattered and pawing for food through snow ranging from 8" to 18" in depth. The losses of game in the open hunting territory adjacent to the park is disclosed in the hunting season report attached.

Elk: Very few elk are reported from the Snake River, Goshute River and Therefore. Following are the various counts taken the latter part of the month: Hellroaring 400; Hellroaring to Slough Creek 300; Cottonwood Basin 600; Blacktail and vicinity 750; Lower Lamar Valley 200; Tower Falls 100. Several hundred were observed the latter part of the month on the east and west side of the Gardiner River in the vicinity of Gardiner and the old rifle range. About 50 head are wintering in the Madison River, and approximately 125 between Fountain and Old Faithful.

Deer: Twenty-six deer are being fed daily at Mammoth on a ration of cottonseed cake and clover hay. Large numbers of these animals may be counted between Mammoth and Gardiner; 50 were counted on the Game

1941

January 2

The first of the month, I found myself very busy with the usual routine of the office. I had to attend to the correspondence and the reports of the various departments.

January 3

On the 3rd, I went to the office as usual. I had a meeting with the directors and discussed the plans for the coming year. It was a very interesting and productive session.

On the 4th, I was out of the office for most of the day. I had to go to the hospital to see a patient. It was a very busy day and I had to attend to many other matters.

January 5

On the 5th, I was back in the office. I had a very busy day with many meetings and reports. I had to attend to the correspondence and the reports of the various departments.

January 6

On the 6th, I was out of the office for most of the day. I had to go to the hospital to see a patient. It was a very busy day and I had to attend to many other matters.

On the 7th, I was back in the office. I had a very busy day with many meetings and reports. I had to attend to the correspondence and the reports of the various departments.

On the 8th, I was out of the office for most of the day. I had to go to the hospital to see a patient. It was a very busy day and I had to attend to many other matters.

Preservation Ranch. Small bands are to be seen on the ridges north and west of Gardiner; 25 were counted at Old Faithful. All deer seen are in excellent condition, and forage conditions are good.

Moose: Total moose counts for the various districts as made during the past month are as follows: Bechler River 12; Snake River 25; Thorofare 92; Riverside 6. Some of the 92 counted in Thorofare were counted twice inasmuch as they were traveling a great deal. All of these animals are in excellent condition with forage conditions good.

Antelope: The antelope herd is well scattered over the entire country between Mammoth and Reese Creek and north in Bear Gulch, and the Buffalo Flats, and may be seen in small bunches on all the ridges in this territory. However, no counts are available with the exception of about 80 on the Game Preservation Ranch. Their condition is noted as good, with forage conditions good.

Sheep: Twenty-one sheep were counted in the vicinity of Junction Butte near Tower Falls on December 14 and this same number was again counted on December 17. Included in this total are 5 spring lambs. Twelve sheep were also counted in the Gardiner Canyon on December 29. The feed troughs were also placed in the Gardiner Canyon on this same date and filled with cotton-seed cake and hay. Four large rams were seen to be contentedly eating this ration that same afternoon. All of these animals seem to be in fair condition with forage conditions good.

Buffalo: The buffalo slaughter which commenced on December 2 was completed on December 15. One shipment of two buffalo was made on December 15 to J. F. Richman of Ft. Leavenworth, Kansas. This shipment completed the buffalo to be disposed of this year. A total of 28 animals were shipped alive to various individuals and zoos throughout the country, and 201 were slaughtered to be given to the various Indian agencies in northern Montana and to the indigent people of Idaho and Wyoming. As soon as the remaining buffalo carcasses are shipped to the Blackfeet Agency a complete report covering the entire buffalo disposed of will be submitted. Each buffalo carcass disposed of costs \$5.29 delivered at Gardiner, Mont. This cost was prorated and itemized per animal as follows: Roundup \$1.14; slaughter \$2.32; trucking 42¢; issues \$1.41. This amount of a trifle over 1¢ per pound is a very cheap price to pay for buffalo meat, when it is considered that in previous years buffalo meat has demanded from 75¢ to \$1.00 per pound.

The roundup of buffalo will be started on January 8 for the purpose of corraling and weaning this year's calf crop.

Small Animals: Muskrats and beaver are reported as busy in the Madison and Firehole Rivers. From Otter Creek to the Mad Volcano on the Yellowstone River 25 muskrat huts were counted. Three coyotes were also seen on the ice trying to break in two these huts. However, they were unsuccessful. Jack beaver at the Yancey Ranch are busy cutting quaking aspen. On December 17 one

the above-mentioned... (mirrored text)

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beaver was killed by coyotes near the Yellowstone River in the vicinity of Tower Falls. This animal was about 100 yards from the river.

Predatory animals: This month 27 coyotes were killed, as compared with 21 for the same month in 1930, which makes a total of 76 to date, as compared with 52 last year, and 90 in 1929 for the same periods.

Buffalo Ranch and Other Ranch Activities: At the Buffalo Ranch the slaughter was carried on until December 18. Since that time cleanup work and the feeding of buffalo has been the order of the day. Preparations were also made at the Buffalo Ranch for the roundup to be made on January 6. Feeding will be started shortly after the first of the month at the Slough Creek Ranches and the Game Preservation Ranch.

On December 21, 10 additional horses were taken to the Merrill Ranch in Miner Basin for wintering. This makes 58 horses that we are wintering out of the park this year.

480 - Natural Phenomena

Mammoth Hot Springs

With continued winter conditions, the changes noted are as follows:

Hysan Terrace - activity on the east side has discontinued, and is now shifting to the south. The flow of water is about the same as during November.

Diana Terrace - is discharging a large volume of water. The flow over the formation trail is eroding and cutting in places. The yellow coloration is beautiful.

Minerva Terrace - continues in a dried-up condition. There is a very slight amount of steam activity. A small amount of water remains in a pool, frozen over solid.

Mound Terrace - continues its activity on the north and west slopes with a large volume of water, as during November.

Cleopatra - activity has diminished. There is a very slight flow of water.

Main Terrace - continues about the same as in November.

Orange Spring Mound - is more active than formerly, the southwest half being wet, and strands of sulphur bacteria forming near the top, with dark green coloring halfway down the slopes.

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Blue Springs - has shown considerable fluctuation during the month. During the first part of the month, the springs were practically dead, and the pools dried up; while the close of the month shows a large volume of water flowing, and all of the pools filled.

White Elephant - shows practically no change from previous months.

Angel Terrace - is very active on the north and east slopes, and continues its flow from the ten-foot crack, obliterating the old trail from the top of Angel Terrace. Diana and Angel Terraces still hold first and second places for the volume of water discharged and the beauty of color.

Jupiter Terrace - shows decreased volume of water. The most activity is near the center. The south end is becoming dark green in color.

The spring near the Nichols' tennis courts has showed increased activity for the past month, exceeding that for the month of November, which had been the greatest up to that time.

Norris Geyser Basin:

On December 14, W. J. Mead reports the pool of Emerald Spring as being filled to its normal level, with the spring boiling constantly to a height of about five feet. The steaming vent, previously reported about five to six feet below the surface on the west side, is now covered with water, and is very active. The vent on the south side is inactive, while the middle and north vents continue active. The water has changed color from slate gray to grayish green, indicating that it is clearing.

Old Faithful Geyser Basin:

Ranger Curtin Skinner reports that on December 31, he timed Old Faithful for six consecutive eruptions and the interval was 65 minutes, with no variation.

In Black Sand Basin, Hankerchief Pool is filled with water again, after having been dry all summer and fall. He tried a small cloth in it, which was drawn down, but not returned.

500 - Use of Park Facilities by the Public

510 - Increase or decrease of travel

The generally mild and fair weather which prevailed for most of the past month and the unusually good condition of the Livingston-Cardiner road has helped considerably in boosting pre-season travel. Four hundred sixty-five visitors, traveling in 186 cars, via the north entrance, was the total travel for the month of December.

530 - Visitors

December 1: Mr. and Mrs. Vivian Scoyen of Glacier arrived at headquarters for a short visit.

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December 18: Chester Henry, business manager of Veterans Bureau at Fort Harrison, Helena, Montana, accompanied by Mrs. Henry and son, came into the park to see the game. They were visiting Mr. and Mrs. Hundley until Monday, December 21.

December 21: Arthur Lacey, State Commander of the American Legion and Herbert Kibler, State Adjutant of American Legion, drove to Mammoth in the afternoon. Mr. Hundley and Mr. Rush took them toward the Buffalo Ranch, but were unable to reach the ranch because of snowdrifts.

900 - Miscellaneous:

Medical Service: Dr. Ivan T. Bulaeff, Resident Physician, reports 45 office visits and 36 home visits during the month of December.

Post Office: Business in the Post Office was practically normal for the month of December, but as usual was much heavier than for the other winter months, due to the holiday season.

Church Services: Christmas services were held in the chapel on Sunday evening, December 27, by Rev. L. D. Smith, from Livingston, Montana.

- - - - -

The Community Christmas entertainment was held in the canteen on the evening of December 23. The canteen was attractively decorated with greens and a large Christmas tree. A stage was erected on which the school children gave their program. Later Santa Claus distributed gifts to all the children. This was followed by dancing and supper. The program was well attended and seemed to be thoroughly enjoyed.

- - - - -

Ranger and Mrs. Gerald Yetter are the proud parents of a son born in Denver, Colorado, the latter part of December.

- - - - -

Very truly yours,


Guy D. Edwards
Acting Superintendent.

AEG

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE

National Park for the month of

DECEMBER, 1931.

	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,	186	2296	190	1410	388	63
Cars reentry,		183		104	78	73
Motorcycles,				1	-1	100
Total motor vehicles,	186	2480	190	1515	963	63
Persons entering via motor vehicles,	465	7065	570	3371	3194	82
Persons entering via other private transportation,						
Total persons entering via private transportation,	465	7065	570	3371	3194	82
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages,						
Persons entering via trains,						
Persons entering otherwise,						
Total other transportation,						
GRAND TOTAL ALL VISITORS,	465	7065	570	3371	3194	82

	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

1957
10-1-57

GRAVEL REPORT

National Park for the month of _____

Supervisor

Location	Type of Gravel	Quantity	Date	Remarks

GRAVEL TRANSPORTATION

Mode of Transport	Quantity	Date	Remarks
Motor Vehicle			
Tractor			
Truck			
Other			
Total			

GRAVEL DEPOSITATION

Location	Quantity	Date	Remarks
Total			

Prepared by _____
Checked by _____
Date _____

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

YELLOWSTONE National Park for the Month of December, 1951.

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date Completion
02 - Mammoth-Norris Road	100	0		
23.1- Madison-Old Faithful	100	0		
23.4- Signs	99	0	4	
23.5 -Post Const. Maint.	50	0		
23.6- Bear Feeding Grounds*	100	0		
23.7- Lewis River Bridge	100	0		
26 - Old Faithful Trails	90	0	15	
28 - " " Parking	100	0		
29.1- Artist Point Cleanup	100	0		
29.2 -Artist Point Oiling	100	0		
30.1 -Norris-Madison Oil	100	0		
30.2 -Norris-Madison Cleanup	100	0		
30.3 -Norris-Madison Bridge	100	0		
32 -E. Mt.-Lake Butte Cleanup	100	0		
33 -Canyon-Lower Jet.Cleanup	100	0		
36 -Mammoth Water System	100	0		
39 -Mammoth Sewer System	100	0		
325.8 -Loop Betterment	100	0		
325.9 - " "	100	0		
43.1 - Cleanup (Firehole Cascades-Chaldian)	40	0		
45.1 - Cleanup (Inspiration Point)	55	0		
45.2 - Cleanup (E.Mt.-Lake Butte)	35	0		
44 - Seal coat oiling & staining guard rail	85	0		

\$2,000 additional work programmed, June 30, 1951.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATE OF MICHIGAN
BUREAU OF REVENUE

Return this for the Month of _____ 19__

Probable Date Completion	Percent Constructed Last Month	Percent Constructed This Month	Percent Completed To Date	Description of Project
				1. - [Illegible]
				2. - [Illegible]
				3. - [Illegible]
				4. - [Illegible]
				5. - [Illegible]
				6. - [Illegible]
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				26. - [Illegible]
				27. - [Illegible]
				28. - [Illegible]
				29. - [Illegible]
				30. - [Illegible]

Return this for the Month of _____ 19__

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of December, 1931.

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	75	23	70	40
Number of additions	0	4	1	0
Total	75	27	71	40
Number of separations	1	23	4	33
Number of employees close of month	74	4	67	7
Number of promotions during month	0		0	
Aggregate amount of annual leave taken	424		309	
Aggregate amount of sick leave taken	61		21	
Aggregate amount of leave without pay	11		0	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

National Park for the Month of

This Month		This Month Last Year		Description of Position
Appointed	Re-Apointed	Appointed	Re-Apointed	
1	1	1	1	of employees beginning of month
1	1	1	1	of positions
1	1	1	1	of separations
1	1	1	1	of employees close of month
1	1	1	1	of positions during year
1	1	1	1	of annual leave taken
1	1	1	1	of sick leave taken
1	1	1	1	of leave without pay

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone

December, 1931

National Park for the Month of

	This Year	Last Year
Park revenue on hand beginning of month,	\$ 113.50	\$2,231.83
Received,	46.20	763.94
Total,	159.70	2,995.77
Remitted,	156.30	2,255.83
On hand close of month,	\$ 3.40	\$ 739.94
<hr/>		
Park revenues received this year to date,	\$ 156,640.35	
Park revenues received last year to date,	171,229.52	
## Increase, de ##		14,589.17
Per cent of increase,0852024

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUE

December, 1921

Yellowstone

National Park for the Month of

1921	1920	
21,214.00	31,100.00	Park revenue on hand beginning of month
980.00	40.00	Received
2,000.00	10,000.00	Total
2,000.00	10,000.00	emitted
21,214.00	31,100.00	on hand close of month

21,214.00	31,100.00	Park revenues received this year to date
17,214.00	27,100.00	Park revenues received last year to date
4,000.00	4,000.00	Increase, \$
		Per cent of increase

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of DECEMBER, 1901.

	This Month	This Month Last Year	Increase	Percentage Increase
--	------------	----------------------	----------	---------------------

LOCAL BUSINESS

Miles of circuit maintained	532	533	4	0.75
No. of telephones connected	186	172	14	8.1
No. of measured service calls				
No. of other local calls				
Total No. of local calls	4141	3176	965	30.4
Peak load in calls per day	227	163	64	39.3

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

TOTAL RECEIPTS

LONG DISTANCE BUSINESS

No. Outbound calls	73	48	25	52.1
No. Inbound calls	67	48	19	39.6
TOTAL LONG DISTANCE CALLS	140	96	44	45.8

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

TELEGRAPH BUSINESS

Messages via Western Union
 Messages via.
 TOTAL MESSAGES

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

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPT-

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF REVENUE AND EXPENDITURES

For the year ending December 31, 1954

UNITED STATES

UNITED STATES	1954	1953	1952	1951
REVENUE	1,234,567	1,123,456	1,012,345	901,234
EXPENDITURES	1,123,456	1,012,345	901,234	890,123
NET REVENUE	111,111	111,111	111,111	111,111

TOTAL BUSINESS

ADMISSIONS	1,234,567	1,123,456	1,012,345	901,234
CONTRIBUTIONS	111,111	111,111	111,111	111,111
SALES	111,111	111,111	111,111	111,111
RENTALS	111,111	111,111	111,111	111,111
OTHER	111,111	111,111	111,111	111,111

UNITED STATES NATIONAL PARK SERVICE

TOTAL REVENUE

TOTAL EXPENDITURES

TOTAL REVENUE	1,234,567	1,123,456	1,012,345	901,234
TOTAL EXPENDITURES	1,123,456	1,012,345	901,234	890,123
NET REVENUE	111,111	111,111	111,111	111,111

UNITED STATES NATIONAL PARK SERVICE

TOTAL BUSINESS

TOTAL BUSINESS	1,234,567	1,123,456	1,012,345	901,234
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UNITED STATES NATIONAL PARK SERVICE

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE

National Park for the Month of

DECEMBER, 1931.

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	54910.0	423710.0	60810.0	423342.0	-3632.0	-019 -0306
Sold to park operators,	1010.0	49151.0	1018.3	69683.1	-10842.1	-17 -17
Sold to others,						
Furnished to other Governmental agencies,						
Used by National Park Service, lost in transit, etc.,	33900.0	274559.0	59791.7	273648.9	1910.1	008 07135
Total current generated,	54910.0	423710.0	60810.0	423342.0	-3632.0	-019 -0306

Amount receivable from the sale of electricity, \$ 80.50

Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED SOLD USED ETC

National Park for the year of

Increase for Travel Less	This Year	Last Year	This Year	Last Year	This Month	Last Month	Number of Miles
							Current generated,
							Sold to park operators,
							Sold to others,
							Transferred to other governmental agencies,
							Used by National Park Service, such as in transit, etc.,
							Total current generated,

Amount receivable from the sale of electricity

collected by K. W. H.

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

HUNTING REPORT

SEASON OF 1931

December 30, 1931.

GENERAL

In the practical working out of Yellowstone National Park as a great game sanctuary it ties in with many areas of land both public and private, and areas that are open and closed to hunting, in states adjoining the Park. This status, of course, has some influence on the game of the Park and their drifts to and from the winter ranges, most of which are near the border of the Park or just outside. This hunting season report is meant to convey a brief picture of the hunting season merely as it relates to the game of the Park and to herds of game which spend a part of their time in the Park and a part outside of the Park.

During the hunting season the Park Service has maintained an intensive patrol along the Park boundary and has cooperated with the different state game departments in an effort to keep accurate records of all game killed and to keep game law violations as low as possible. Our efforts have not extended outside the Park except where we could be of special help to state officials. Our cooperation with the states has been toward the end that the regulated taking of surplus game could be accomplished in a sportsman-like manner.

From the hunter's standpoint the past season can be considered as successful. The comparative tables for the most part show increased kills in nearly all areas, even though the same mild weather condition of last year prevailed. This is probably due to the more intensive hunting, which in turn may be accounted for by the fact that there are so many unemployed men.

In a majority of the cases in which arrests were made for violation of hunting laws, the offenders could not furnish sufficient money to pay their fines and the sentences were either suspended or jail sentences imposed. This was particularly true along the north line and in areas accessible by motor vehicles.

WEATHER

The weather this year was very similar to that which prevailed during the hunting season of 1930. Conditions were almost ideal until November 8, when a storm occurred that covered the park with an average snow depth of about 12 inches. Unsettled weather with occasional clear days and cold

waves prevailed during the remainder of the hunting season. At no time was the snow crusted and no decided drift of game occurred during the season.

RANGE

It is the consensus of opinion that feeding conditions for the game were exceptionally good this year. However it should be noted that all the territory in the vicinity of Hollaroaring, Tower Falls, and Crevice in Yellowstone National Park were very heavily grazed.

WYOMING (Teton and Park Counties):

There are three game preserves in these two counties which are adjacent to the park, namely, the Hoodoo, Shoshone and Teton preserves. The only areas open to hunting is a small area on Crandall Creek near Cooke, Montana, areas on the north and south forks of the Shoshone River and the Upper Yellowstone country. The area in the vicinity of Bridger Lake and that adjoining the park in the region of the Upper Yellowstone is closed to moose hunting. Special permits are issued for the killing of moose in open hunting territory. The hunting season in Wyoming opens September 15 for sheep, deer and elk and closes November 15.

Checking stations along the main roads were established in Wyoming this year and they proved to be very successful in securing accurate figures on the game killed. These checking stations in Jackson Hole were established on the main roads at the edge of the valley. These stations checked every person entering in search of game. Of course, the local residents of the valley would not be traveling in or out and therefore were not checked. It is estimated that between three and four hundred elk were killed by these local hunters. A checking station was also established on the east entrance, or Cody, road 22 miles below the Park boundary at the Wapiti Ranger Station. These checking stations this year have clearly shown that this manner of securing accurate game kills should be continued.

Following is a table showing comparative figures for game kills in Wyoming:

TABLE I

	Elk		Deer		Moose		Sheep		Bear	
	1930	1931	1930	1931	1930	1931	1930	1931	1930	1931
Sylvan Pass (North Fork of Shoshone) (South Fork of Shoshone)	40	95	100	245#	0	1	0	1		
Upper Yellowstone	28	32	12	11	10	8	2	0	0	7
Cooke	*	31	*	40	*	2	*	8	*	6
Jackson Hole	1200	2320**								

One illegal kill

* Figures not available for 1930.

** Does not include kills by local people

IDAHO (Freemont County):

Deer season - October 11 to 20, inclusive

Elk season - December 1 to 15, inclusive

Information as to the number of elk kills made in this country is very meager and estimates run from 100 to 125, so 113 will be taken as an estimated number. Deer kills totaled 15 with none recorded for last year. Hunters in this section of Idaho were exceptionally numerous this year and had there been the usual heavy snowfall and stormy weather they probably would have taken a heavier toll of game.

Comparative figures for game kills made in this section are as follows:

TABLE II

	<u>Elk</u>	<u>Deer</u>
1930	50	0
1931	113	15

MONTANA (Gallatin County):

The hunting season in Gallatin County opens October 15 and closes November 15. The hunting in this county occurs largely along the Madison River and Red Canyon near West Yellowstone and on the Gallatin River north of the Gallatin Game Preserve. The same system of cooperative patrols with the Forest Service and the State Game Wardens was used this year. The deer season which had been closed in 1930 was reopened in 1931.

Following are comparative game kill figures for this area:

TABLE III

	<u>Elk</u>		<u>Deer</u>		<u>Moose</u>		<u>Bear</u>	
	1930	1931	1930	1931	1930	1931	1930	1931
West Yellowstone	43	54	0	6	1#	4#	1	0
Gallatin	35	94	0	26	3#	0	0	1

Illegal kills (no season on moose)

MONTANA (Park County):

As stated in previous reports this hunting area presents a greater problem and requires more attention than any area adjacent to Yellowstone. A few clauses in the Montana State Game Laws were changed this year which relieved the situation somewhat, one of which prohibited the hunting and killing of game within the limits of a city. This curtailed some of the game kills that had been customary in the past within the city limits of Gardiner. Also, the boundaries of the state game preserve were changed so as to include the Game Preservation Ranch.

The same system of patrolling that was employed in 1929 and 1930-- Park Service, Forest Service, Montana State Game Warden cooperative organization--was used this year.

No decided drift of elk beyond the boundaries of the park occurred during the season.. Scattered groups of elk were the usual formation used in their movements toward the hunting areas and frequently these elk were frightened back inside the park by hunters before eight a.m., the time set for firing.

During the season there was one arrest made for hunting inside the Park. There were also two elk found within the park boundaries that had been shot and dressed; the carcasses were turned over to the state of Montana. The guilty parties were not apprehended.

Following is a set of comparative figures for game kills on the north line:

TABLE IV

	Elk		Deer	
	1930	1931	1930	1931
Gardiner and vicinity	304	175#	29	33"
Crevice		29		13
Hellroaring	6	19		0
Slough Creek	6	67		10
Mammoth				4*

12 illegal kills (killed on game preserve) and one elk found dead.

" 14 illegal kills, on game preserve and out of season.

* Accidental deaths.

The following table shows comparative kills for all areas surrounding the Park:

TABLE V

	Elk		Deer		Moose		Bear		Sheep	
	1930	1931	1930	1931	1930	1931	1930	1931	1930	1931
Gardiner	300	175	29	33	3					
Crevice		29		13						
Hellroaring	8	19								
Slough Creek	8	67		10			5			
Cooke		31		40		2		6		8
Sylvan Pass	40	95	100	245		1				1
Upper Yellowstone	28	32	12	11	10	8		7	2	
Bechler	50	113		15						
West Yellowstone	43	54		6	1	4	1			
Gallatin	35	94		26	3			1		
Mammoth				4						
Jackson Hole	1200	2320								
TOTALS	1712	3029	141	403	17	15	6	14	2	9

Assistant Chief Ranger Francis D. LaNoue was in active charge of all field work in connection with the hunting season patrol.

GEORGE F. BAGGLEY
Chief Ranger

Dec Work Report

J M Thompson

8 hrs laying linoleum

" " "

" " "

6 hrs " "

2 hrs replacing broken window glass

8 hrs painting boiler room (304)

Said off

Gardiner	300	175	29	33	3					
Crevice		29		13						
Hellroaring	8	19								
Slough Creek	8	67		10			5			
Cooke		31		40		2		6		8
Sylvan Pass	40	95	100	245		1				1
Upper Yellowstone	28	32	12	11	10	8		7	2	
Rechler	50	113		15						
West Yellowstone	43	54		6	1	4	1			
Gallatin	35	94		26	3			1		
Mammoth				4						
Jackson Hole	1200	2320								
TOTALS	1712	3029	141	403	17	15	6	14	2	9

Assistant Chief Ranger Francis D. LaNoue was in active charge of all field work in connection with the hunting season patrol.

GEORGE F. BAGGLEY
Chief Ranger

December Work Report

L 91 Tomphres

at 8 hrs. laying lineoleum

..

16 hrs

2 .. putting in glass at canteen

4 hrs. painting boiler room (304)

4 hrs. painting floor + quarter - road

4 .. on leave Peterson - Quarters

8

8 .. painting at Nielsen Quarters

..

8

4 .. patch plastering ..

8 hrs. painting ..

.. painting floor ..

hrs painting at ..

hrs (304)

.. painting ..

hrs on leave

21 8 hrs on Johnson's quarters
22 8 " " " " " "
23 8 " " " " " "
24 8 " " " " " "

5
6 4 hrs scraping floor Harbor Quarters

7
8 5 hrs sandpapering + filling floor
Harbor Quarters

9 12 hrs plastering at Holman Quarters
4 " on Harbor floors

10 5 hrs plastering + sandpapering at Holman

11 12 hrs painting at Holman

12 12 hrs waxing floors Harbor Quarters

Yellowstone Park Wyo.
January 2nd, 1932

REPORT OF ELECTRICAL & TELEPHONE BUSINESS FOR DECEMBER 1931

	<u>This</u> <u>Month</u>	<u>This Mo.</u> <u>Last Yr.</u>	<u>Increase</u>	<u>Percent Inc.</u>
Miles of circuit maintained	532	528	4	0075
No. of telephones connected	186	172	14	081
No. of measured service calls				
No. of other calls				
Peak load in calls				

C. D. Dale

Yellowstone Park Wyo.
January 2nd, 1932

WORK REPORT FOR DECEMBER 1931

Installed two base plugs or convenient outlets in Garage.

Water heater taken out, cleaned & reinstalled in Mr. Caffertys qts.

Cleaned & serviced Guard hse. & Garage pump motors.

Repaired two damaged telephones (in shop)

Took down two & installed one drop light in Mr. Fred Johnstons qts.

Replaced wiring in Mr. Nielsons qts taken down acct. papering & painting.

Inventoried about 1/2 the Government bldgs. at Mammoth for making up schedule showing electrical appliances & possible amount of current consumed in each bldg. (per. memo. from Mr. Edwards, Nov. 2nd.)

Two days power plant operator.

11 - days on leave.

C. D. Dale



UNITED STATES POST OFFICE
YELLOWSTONE PARK
WYOMING

CHESTER A. LINDSLEY
Postmaster

January 1, 1932.

REPORT FOR DECEMBER MONTHLY REPORT

Post Office:

Business in the Post Office was practically normal for the month of December, but as usual was much heavier than for the other winter months, due to the holiday season.

Church Services:

Christmas services were held in the chapel on Sunday evening, December 27th, by Rev. J. Smith, from Livingston, Mont.

cal

Report of Repainting done in Dec
by H. T. White and A. L. Carter
painted the floors in Miss Ketchum's office. Repaired
locks and put new bars on the door and
new thresholds.

Got on weather strip and fitted locks on
Kitchen. Miller. Body by J. G. L.
had same 1 1/2 days.

made screens to protect the windows in
winter. Blinds.

made a coal bin roof for the tank
at Lin.

Painted over a house.

J. G. Brown



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

TRAVEL REPORT

Yule

National Park for the month of

Yule

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

PRIVATE TRANSPORTATION:

Persons first entry,	<i>186</i>	<i>2270</i>	<i>190</i>	<i>1110</i>	<i>80</i>	<i>47</i>
Persons reentry,		<i>175</i>		<i>320</i>	<i>185</i>	<i>75</i>
Motorcycles,				<i>1</i>	<i>-1</i>	<i>100</i>
Total motor vehicles,	<i>186</i>	<i>2445</i>	<i>190</i>	<i>1430</i>	<i>265</i>	<i>63</i>
Persons entering via motor vehicles,	<i>2165</i>	<i>7065</i>	<i>573</i>	<i>2111</i>	<i>2154</i>	<i>75</i>
Persons entering via other private transportation,						
Total persons entering via private transportation,	<i>2165</i>	<i>7065</i>	<i>573</i>	<i>2111</i>	<i>2154</i>	<i>75</i>

OTHER TRANSPORTATION:

Persons entering via stages,						
Persons entering via trains,						
Persons entering otherwise,						
Total other transportation,						
AND TOTAL ALL VISITORS,	<i>415</i>	<i>7065</i>	<i>573</i>	<i>2111</i>	<i>2154</i>	<i>75</i>

	This Year	Last Year	Increase	
			Number	Percent

Automobiles in public camps during month,

TRAVEL REPORT

National Park for the month of _____

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

PRIVATE TRANSPORTATION:

Auto first entry

Auto reentry

Motorcycles

Total motor vehicles

Persons entering in motor vehicles

Persons entering via other private transportation

Total persons entering via private transportation

OTHER TRANSPORTATION:

Persons entering via stage

Persons entering via train

Persons entering by other means

Total other transportation

GRAND TOTAL ALL VISITORS

Yellowstone Park, Jordin .
January 1, 1932.

MEMORANDUM:

The following report of activities under the supervision of Engineering for the month of December is herewith submitted.

No construction projects were active during the month and maintenance work consisted of snow removal on the Gardiner-Mammoth road and the clearing of several small rock slides in the Gardiner Canyon.

Personnel of the engineering section consisted of the Park Engineer, and one rodman whose appointment was terminated on December 8. This force was engaged for the most part in working up unit cost data for the seasons activities. The Park Engineer was on annual leave from December 12 to the end of the month.

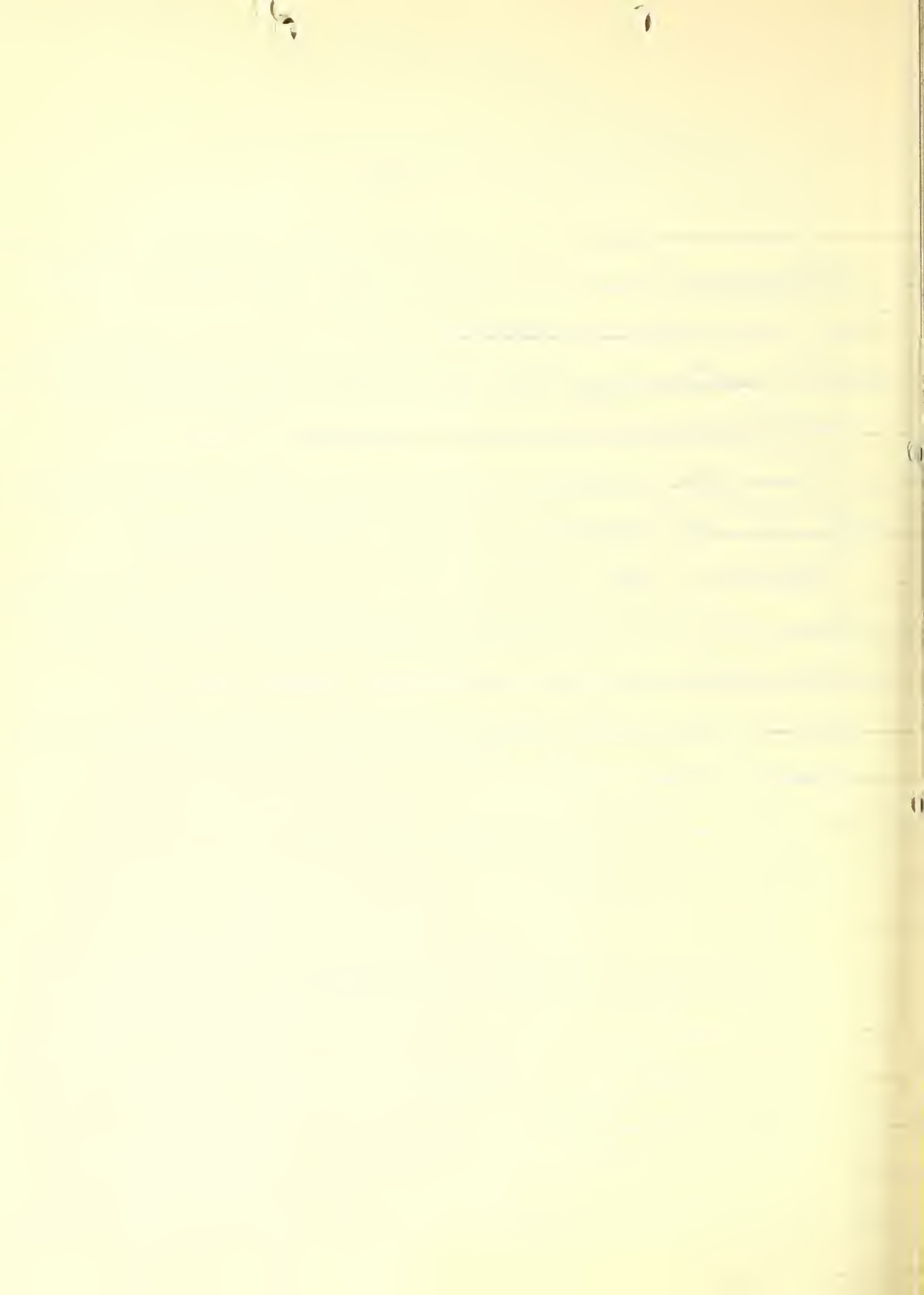
W. A. R.



Insect Control

The ^{final} annual report for Yellowstone National Park has been prepared with the exception of data pertaining to the type of insect survey work during the past season. This report will be completed within the next few days & forwarded to the proper officials.

Tracings for the work completed on the 1930 map will be started soon & it is hoped that prints will be available some time. The approx 304,491 acres were mapped in 1930 which brings the total area mapped to date to 559,347 acres.



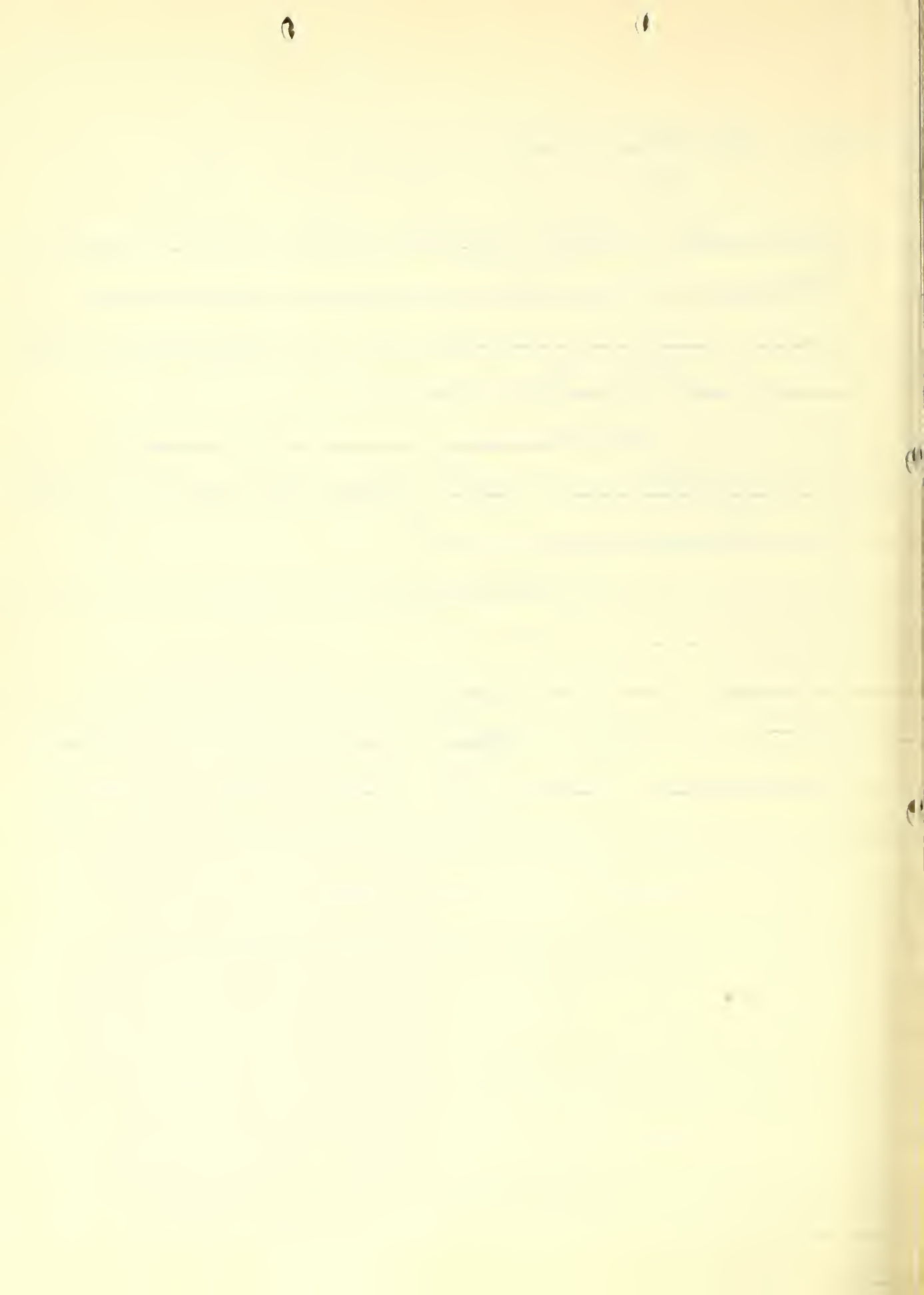
021 In the Park.

The first real snow storm this
winter hit yesterday. Snow on
Dec 25 adding new snow covering
in depth from 8" at Harwood to
28" at Belden River.

Following are the snow
depths over the park according to
measurements.
(attached)

022. In the approach to the Park.

The Copley - Lyman Park road
was closed to travel on Dec 26.



Year	1901	1902	1903
Essex	2	10	12
Concord	24	21	22
Cook	7	10	20
Old Town	24	10	28
Warren	20	10	20
Crystal Springs	16	10	27
Andover	50		
Hudson	24	20	12
Lake Umbagog	25	20	20
Amherst		12	10
Windsor	10	22	28
South Ferrisburgh	50		27
Portsmouth	42	20	11
Lower Falls	22	20	12
Windsor	20	20	20
Windsor	20	20	23
Total	212	100	240

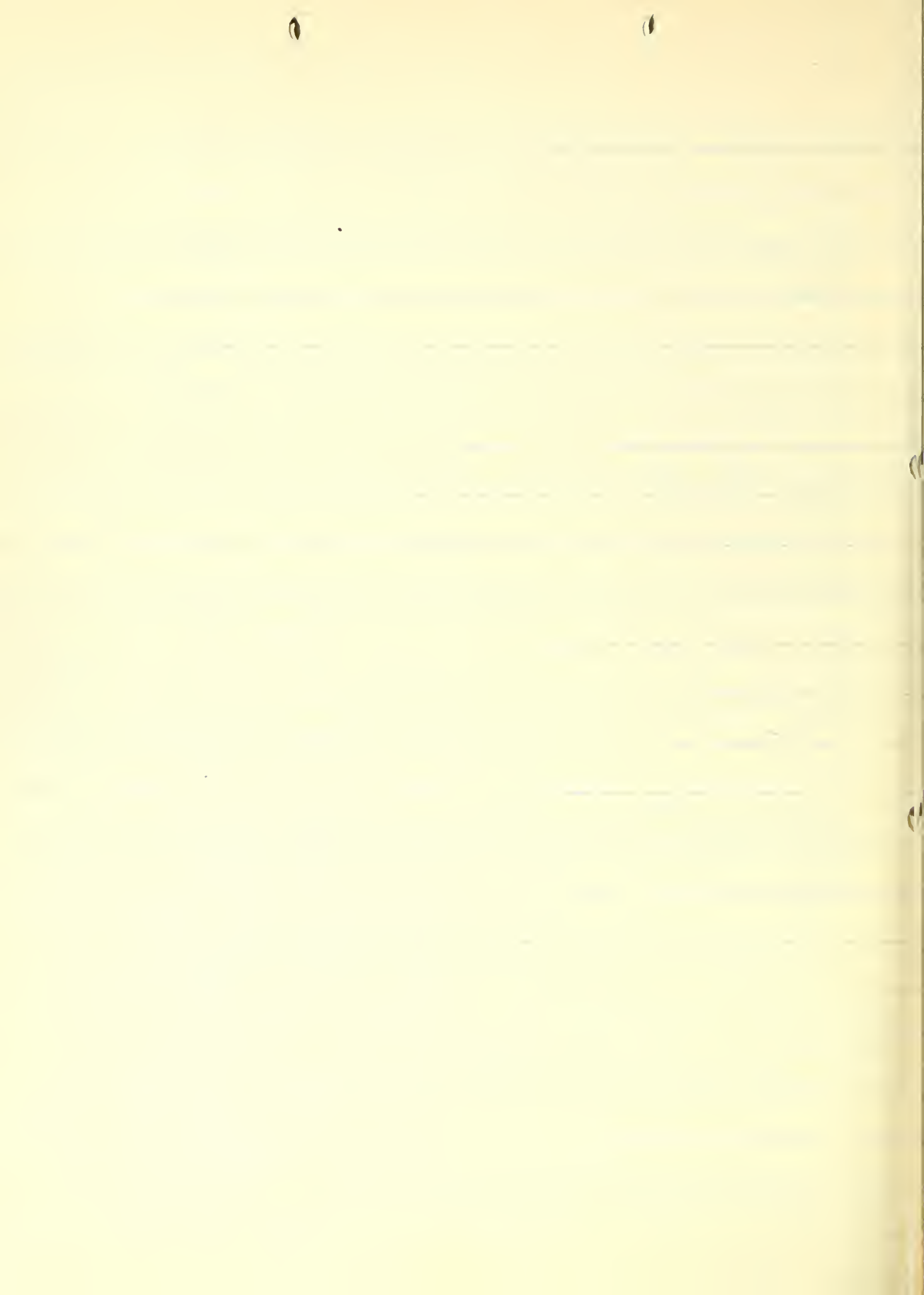
Average
Snow cover

29 30 31



Windsor	10	20	26
Riverton	22	26	26
Wachusett	21	20	22





<u>Snake River Drainage</u>	1833	2000	1870
<i>Lee River</i>	170	200	40
<i>Arroyo</i>	80	17	67
<i>Snake River</i>	27	18	36
<i>Pay River</i>	30	10	34
<i>Snake River</i>	20	20	55
<i>Bear River</i>	10	1	54
<i>Cascade</i>	181	1	65
<u>Yellow River Drainage</u>			
<i>Yellow River</i>	10	-	35
<u>Sagehen River Drainage</u>			
<i>Sagehen River</i>	15	10	2

[Faint handwritten notes, possibly a date or location]

Dec. 17. [Faint handwritten notes]

[Faint handwritten notes]

17 Dec 1928.





410 - Ranger, Naturalist and Guide Service

The usual ranger activities were carried on during the entire month. ~~Included observations made~~ Extensive patrols were made at the finish of the hunting season, which closed on December 20. The patrol camp at the Deckard Ranch was ~~closed to the public~~ discontinued on this date. The complete hunting season report covering all activities on the hunting in the areas adjacent to the park is attached elsewhere in this report. The heavy snowstorm on Christmas day, ranging from 8" of new snow in Mammoth to 28" in Bechler River made it extremely hard skiing for the rangers on patrol in the interior of the park.

Chief Ranger Bagglely was in attendance at the Forest Protection Board meeting held in Spokane. He left Yellowstone on December 3, returning the evening of December 6.

Acting Superintendent Hundley and the Chief Ranger were in Livingston on December 7 on matters pertaining ~~to~~ to the land in the northern elk range.

The Chief Ranger and Forest Assistant left Yellowstone on December 11 for Ogden to attend the fire conference which was held from the 14th to 18th inclusive. On December 12 they attended the Forest Protection Board meeting which was also being held there. The Chief Ranger left Ogden on the evening of December 17 for Helena to attend the State game meeting. He returned to headquarters the afternoon of December 21. Fred Johnston returned to headquarters from Ogden on the evening of December 19.

420 - Museum

440 - Insect Control

The annual forest insect report for Yellowstone National Park has been prepared with the exception of data pertaining to the type and insect survey work during the past season. The report will be completed within the next few days and forwarded to the proper offices.

Tracings for the work completed on the type map will be started soon and it is hoped that prints will be available some time in February. Approximately 304,491 acres were mapped in 1931, which brings the total area mapped to date to 559,347 acres.

460 - Birds

The freezing over of Yellowstone Lake caused birds in that vicinity to seek smaller areas of open water. At Steamboat ~~Spri~~ Point 150 ducks and 8 swan were counted. At West Thumb 2500 ducks, with mallards and goldeneyes predominating, and 125 geese and 15 swan were observed. All of these birds were noted to be in about 5 acres of open water at the West Thumb boat dock. Clarkes Crows, camp robbers and ravens are being seen over the entire park.

470 - Animals

CONFIDENTIAL - SECURITY INFORMATION

1. The following information is being furnished to you for your information only. It is not to be disseminated outside your organization.

2. This information is being furnished to you under the provisions of the Freedom of Information Act, 5 U.S.C. 552, and is not to be disseminated outside your organization.

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11. This information is being furnished to you under the provisions of the Freedom of Information Act, 5 U.S.C. 552, and is not to be disseminated outside your organization.

12. This information is being furnished to you under the provisions of the Freedom of Information Act, 5 U.S.C. 552, and is not to be disseminated outside your organization.

All animals at this time are ~~being~~ noted to be in good condition and forage conditions are good. They are well scattered and pawing for feed through snow ranging from 8" to 18" in depth. The losses of game in the open hunting territory adjacent to the park is disclosed in the hunting season report attached.

Elk: Very few elk are reported from the Snake River, Bechler River and Thorofare. Following are the various counts taken the latter part of the month: Hellroaring 400; Hellroaring to Slough Creek 300; Cottonwood Basin 600; Blacktail and vicinity 750; Lower Lamar Valley 200; Tower Falls 100. Several hundred were observed the latter part of the month on the east and west side of the Gardiner River in the vicinity of Gardiner and the old rifle range. About 50 head are wintering in the Madison River, and approximately 125 between Fountain and Old Faithful.

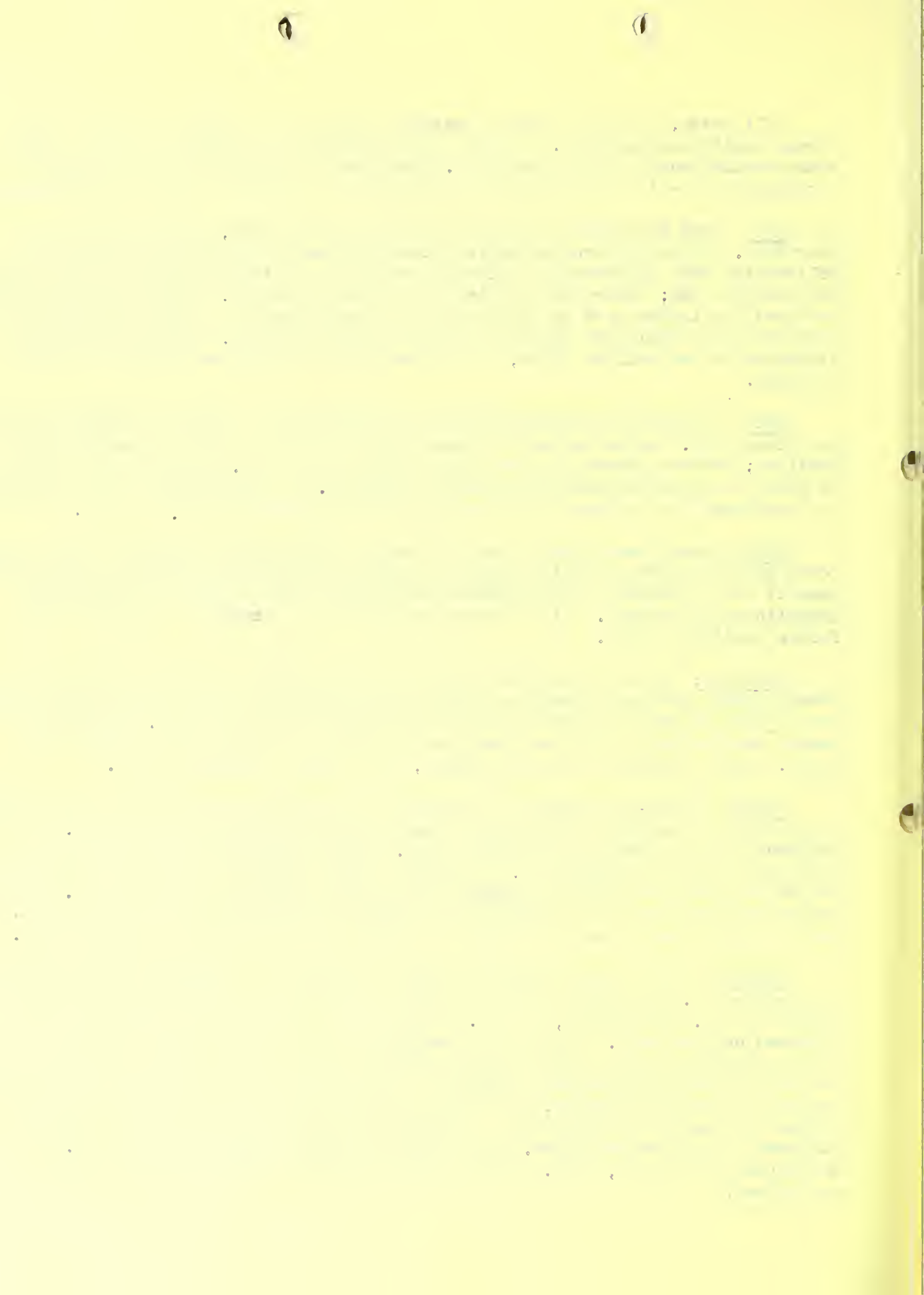
Deer: 26 deer are being fed daily at Mammoth on a ration of cottonseed cake and clover hay. Large numbers of these animals may be counted between Mammoth and Gardiner; 50 were counted on the Game Preservation Ranch. Small bands are to be seen on the ridges north and west of Gardiner; 25 were counted at Old Faithful. All deer seen are in excellent condition and forage conditions are good.

Moose: Total moose counts for the various districts as made during the past month are as follows: Bechler River 12; Snake River 25; Thorofare 92; Riverside 6. Some of the 92 counted in Thorofare were counted twice inasmuch as they were traveling a great deal. All of these animals are in excellent condition with forage conditions good.

Antelope: The antelope herd is well scattered over the entire country between Mammoth and Reese Creek and north in Bear Gulch and the Buffalo Flats and may be seen in small bunches on all the ridges in this territory. However, no counts are available with the exception of about 60 on the Game Preservation Ranch. Their condition is noted as good, with forage conditions good.

Sheep: Twenty-one sheep were counted in the vicinity of Junction Butte near Tower Falls on December 14 and this same number was again counted on Dec. 17. Included in this total are 5 spring lambs. Twelve sheep were also counted in the Gardiner Canyon on December 29. The feed troughs were also placed in the Gardiner Canyon on this same date and ~~filled~~ filled with cottonseed cake and hay. Four large rams were seen to be contentedly eating this ration that same afternoon. All of these animals seem to be in fair condition with forage conditions good.

Buffalo: The buffalo slaughter which commenced on December 2 was completed on December 15. One shipment of two buffalo was made on December 16 to J. F. Richman of Ft. Leavenworth, Kansas. This shipment completed the buffalo to be disposed of this year. A total of 22 ~~animals~~ animals were shipped alive to various individuals and zoos throughout the country, and 201 were slaughtered to be given to the various Indian agencies in northern Montana and to the indigent people of Idaho and Wyoming. As soon as the remaining buffalo carcasses are shipped to the Blackfeet Agency a complete report covering the entire buffalo disposed of will be submitted. Each buffalo carcass disposed of costs \$5.29 delivered at Gardiner, Mont. This cost was prorated and itemized per animal as follows:



Roundup \$1.14
Slaughter \$2.32
Tracking 42¢
Issues \$1.41

This amount of a trifle over 1¢ per pound is a very cheap price to pay for buffalo meat, when it is considered that in previous years buffalo meat has demanded from 75¢ to \$1.00 per pound.

The roundup of buffalo will be started on January 6 for the purpose of corralling and weaning this year's calf crop.

Small Animals: Muskrats and beaver are reported as busy in the Madison and Firehole Rivers. From Otter Creek to the Mud Volcano on the Yellowstone River 23 muskrat huts were counted. Three coyotes were also seen on the ice trying to break in two these huts. However, they were unsuccessful. Bank beaver at the Yancey Ranch are busy cutting quaking aspen. On December 17 one beaver was killed by coyotes near the Yellowstone River in the vicinity of Tower Falls. This animal was about 100 yards from the river.

Predatory Animals: This month 27 coyotes were killed as compared with 21 for the same month in 1930, which makes a total of 76 to date, as compared with 52 last year, and 90 in 1929 for the same periods.

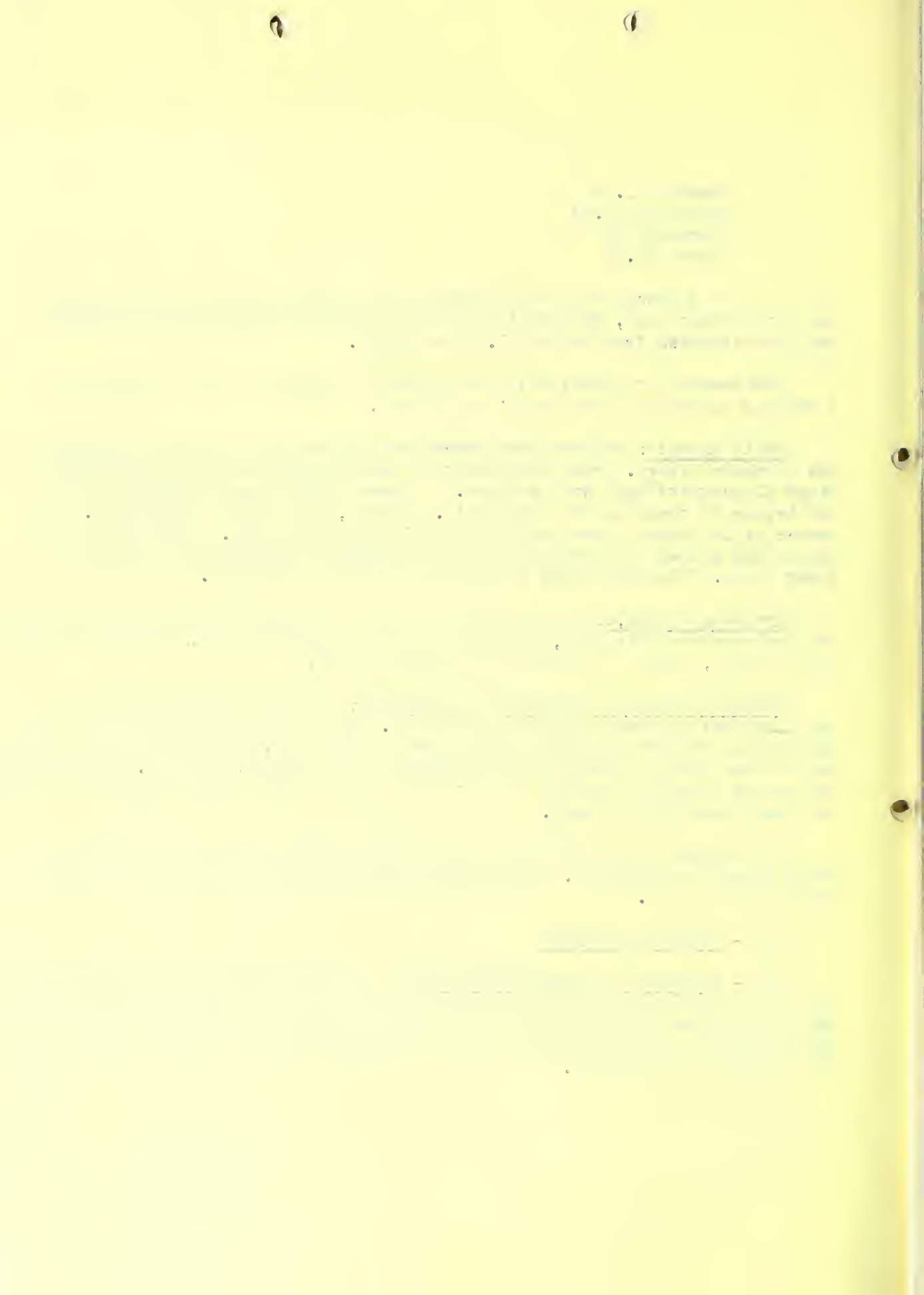
Buffalo Ranch and Other Ranch Activities: At the Buffalo Ranch the slaughter was carried on until December 15. Since that time cleanup work and the feeding of buffalo has been the order of the day. Preparations were also made at the Buffalo Ranch for the roundup to be made on January 6. Feeding will be started shortly after the first of the month at the Slough Creek Ranches and the Game Preservation Ranch.

On December 21 10 additional horses were taken to the Merrill Ranch in Miner Basin for wintering. This makes 58 horses that we are wintering out of the park this year.

480 - Natural Phenomena

510 - Increase or Decrease in Travel: The generally mild and fair weather which prevailed for most of the past month and the unusually good condition of the Livingston-Gardiner Road has helped considerably in boosting pre-season travel. 465 visitors traveling in 186 cars via the north entrance was the total travel for the month of December.

530-6



Report of the Educational Department

for

December 1931

11. Permanent Projects

A. Administrative

The ranger naturalist applications and information letter for 1932 were revised and mimeographed.

B. Nature Notes

The combined November-December issue of Nature Notes was franked to about 750 persons, with a stock on hand of 55 copies.

C. Library

A report on the status of the library was made to the Superintendent in the form of a memorandum. Books and pamphlets accessioned for the month total 362; pamphlets carded and filed total 190. Thirteen magazines and 1 book were received.

Most of the issues of the Journal of Forestry for 1929, 1930 and 1931 were received as a gift from Mr. F. S. Bush.

D. Museum Accessions

- December 1 - Mounted elk horns, gift from Chief Ranger George F. Bagley.
 - December 3 - Specimen of great gray owl (?), gift from Mr. George Head of Gardiner, Montana.
 - December 11 - Beaver study skin tanned by James Brown., Denver, Colo.
 - December 13 - Bones from chalk cliff (on road Gardiner to Livingston), identified by University of Montana as *Michippus*.
 - One iron Indian dart, found in Livingston, Montana.
 - One old rusted Springfield rifle, found near Gardiner.
- The three items above, received on December 13, are all gifts of Frepper J. S. V. Evans, Livingston, Mont.

Administrative Information and Details

1. Introduction

1.1 Purpose of the Report

1.2 Scope of the Report

The purpose of this report is to provide a comprehensive overview of the project's progress and to identify any issues that may arise. The report is intended for the project manager and the steering committee.

1.3 Methodology

The data for this report was collected through a series of interviews with project team members and a review of project documents. The information was then analyzed and synthesized into the following findings.

1.4 Summary

The project is currently on track and is expected to be completed by the end of the year. There are no major risks identified at this time. However, it is recommended that the project manager continue to monitor the project closely and report any changes to the steering committee.

The following sections provide a detailed overview of the project's progress and the issues identified during the course of the project.

1.5 Detailed Findings

1.5.1 Project Progress

1.5.2 Resource Allocation

1.5.3 Risk Management

1.5.4 Stakeholder Engagement

1.5.5 Communication

December 31 - Photograph of the second Yellowstone Park Superintendent, Col. W. W. Morris, and a panoramic view of a wagon train in the Upper Geyser Basin taken August 30, 1878. Purchase from Mr. G. Smith through the Washington office.

G. Museum Work

The processing of the buffalo skeleton was continued.

The museum workshop was cleaned and straightened.

Two coyotes were skinned, one for use as a study specimen and the other for use as a mounting or a study specimen.

Skinned great gray owl (1).

F. Lantern Slides

No work was done on this project during the month.

G. Equipment

Received one tumbler water beater.

H. Photographs

No new negatives were received. Prints were all pasted, except for the checking of about 100, which may be duplicated. We are now ready to check the 17 volumes, revise the index and complete the title and book labels.

I. Publicity Clippings

No work was done during the month on this project.

J. Sales Publications (none)

K. Personnel

Assistant Park Naturalist Norman S. Scherer was on leave 15 days; Junior Park Naturalist Berne Stanley, 2 days; and Museum Caretaker Wilfred Head, 21 days.

CC Superintendent
Mr. Dampus
Mr. Russell
Mr. Hall
Museum (2)

Respectfully submitted

Norman S. Scherer
Acting Park Naturalist.

Number 11 - ...
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Section 1

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Section 2

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Section 3

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Section 4

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Section 5

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Section 6

Section 7

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYO.

OFFICE OF THE SUPERINTENDENT

SUMMARY
of
Thermal Activity During Month of
December, 1931

Mammoth Hot Springs:

With continued winter conditions, the changes noted are as follows:

Hymen Terrace- activity on the east side has discontinued, and is now shifting to the south. The flow of water is about the same as during November.

Diana Terrace- is discharging a large volume of water. The flow over the formation trail is eroding and cutting in places. The yellow coloration is beautiful.

Minerva Terrace- continues in a dried-up condition. There is a very slight amount of steam activity. A small amount of water remains in a pool, frozen over solid.

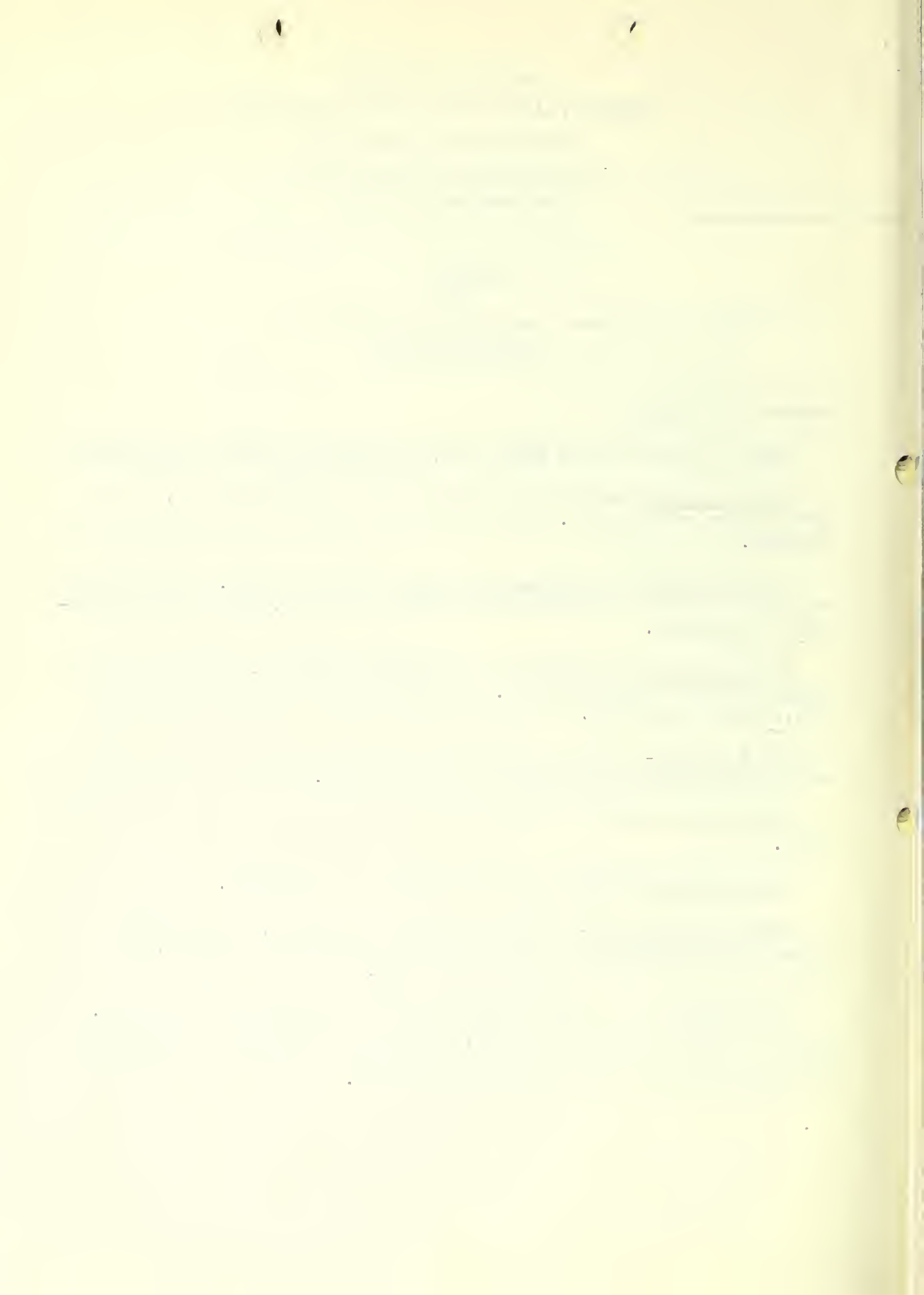
Mound Terrace- continues its activity on the north and west slopes with a large volume of water, as during November.

Cleopatra- activity has diminished. There is a very slight flow of water.

Main Terrace- continues about the same as in November.

Orange Spring Mound- is more active than formerly, the southwest half being wet, and strands of sulphur bacteria forming near the top, with dark green coloring halfway down the slopes.

Blue Springs- has shown considerable fluctuation during the month. During the first part of the month, the springs were practically dead, and the pools dried up; while the close of the month shows a large volume of water flowing, and all of the pools filled.



White Elephant- shows practically no change from previous months.

Angel Terrace- is very active on the north and east slopes, and continues its flow from the ten-foot crack, obliterating the old trail from the top of Angel Terrace. Diana and Angel Terrace still hold first and second places for the volume of water discharged and the beauty of color.

Jupiter Terrace- shows decreased volume of water. The most activity is near the center. The south end is becoming dark green in color.

The spring near the Nichol's tennis courts has showed increased activity for the past month, exceeding that for the month of November, which had been the greatest up to that time.

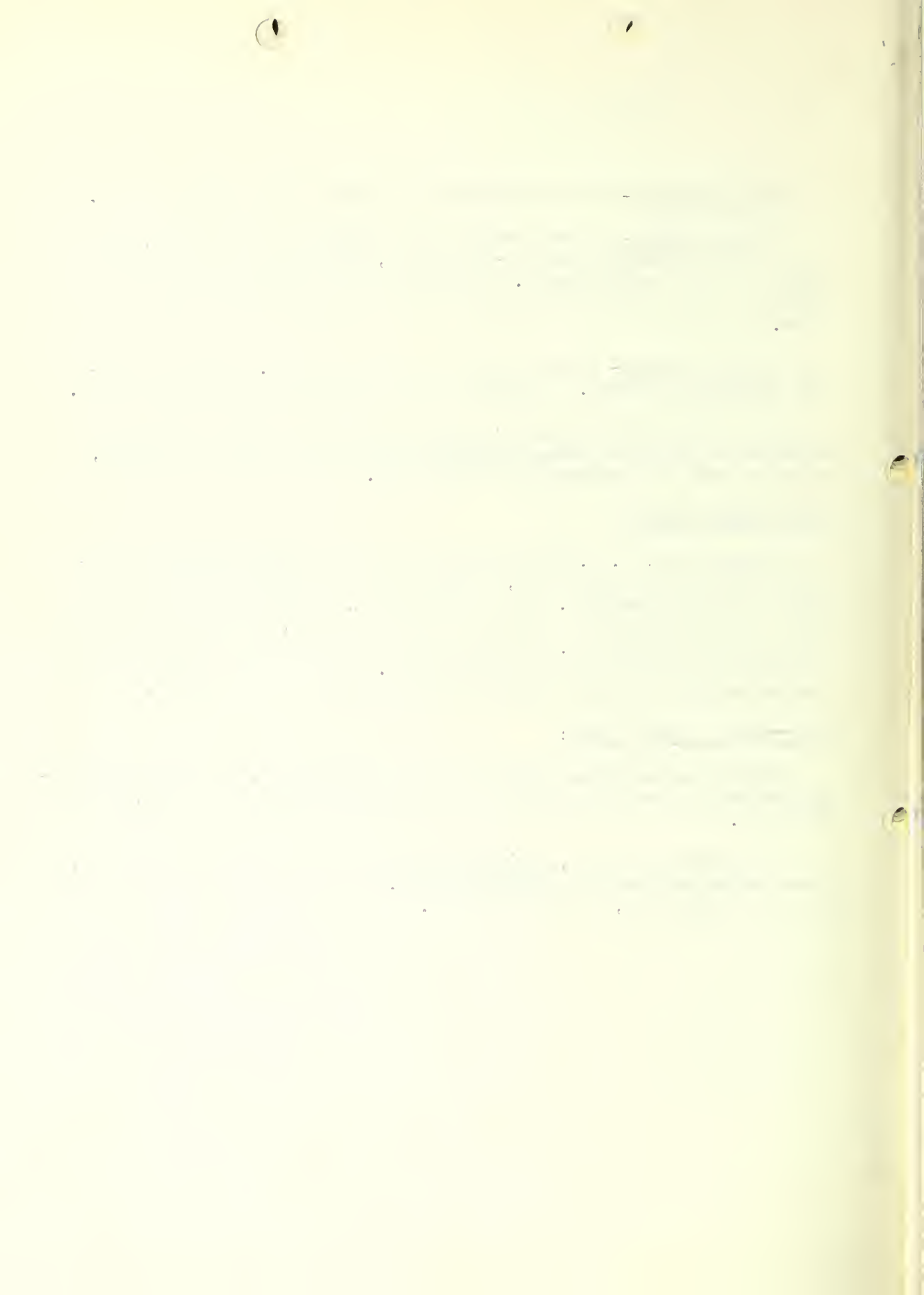
Norris Geyser Basin:

On December 14, W. J. Mead reports the pool of Emerald Spring as being filled to its normal level, with the spring boiling constantly to a height of about five feet. The steaming vent, previously reported about five to six feet below the surface on the west side, is now covered with water, and is very active. The vent on the south side is inactive; while the middle and north vents continue active. The water has changed color from slate gray to grayish green, indicating that it is clearing.

Old Faithful Geyser Basin:

Ranger Curtis Skinner reports that on December 31, he timed Old Faithful for six consecutive eruptions and the interval was 65 minutes, with no variation.

In Black Sand Basin, Handkerchief Pool is filled with water again, after having been dry all summer and fall. He tried a small cloth in it, which was drawn down, but not returned.



January 5-32

Work done by the
Sanitary Department
during December 1931

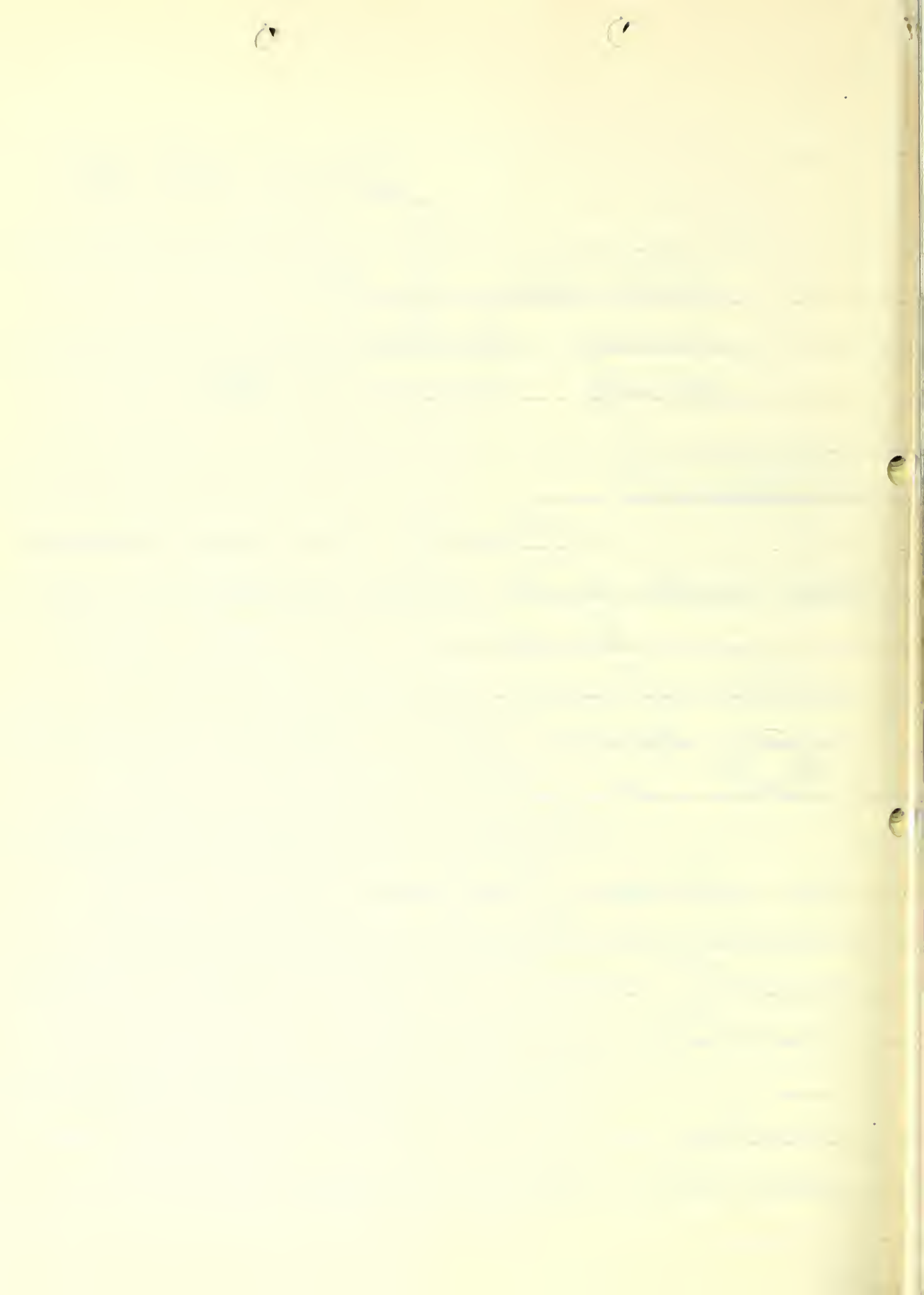
Watters

Operating and maintaining
the water and sewer systems.

On account of very low
water it was necessary to
shut down the Hydro-electric
plant on two occasions

Eleven heating plants
for heating the Administration
building, Garage and employee
quarters were maintained and
operated during the month.

One of the above
heating plants was fired
with oil fuel.



11

January - 5-32

Hauling garbage, ashes
and general clean up work
was done daily

General maintenance to
inside plumbing system and
sheet metal work on the
various roofs

W. J. [unclear]

YELLOWSTONE
NATIONAL PARK
LIBRARY
4633

