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

FILE NO.

MONTHLY REPORT

January, 1939.

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ARNO B. CAMMERER,  
*Director.*





# DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

### YELLOWSTONE NATIONAL PARK

#### YELLOWSTONE PARK, WYO.

OFFICE OF THE SUPERINTENDENT

February 4, 1939

Memorandum for the Director:

Following is the report of activities for Yellowstone National Park for the month of January, 1939:

#### 000 - General

New Year's Day falling on Sunday, the occasion was celebrated in the park on January 2 with a Mummer's Parade similar to those of the past two years, and many interesting and grotesque costumes were displayed. Following the parade members of the community participated in a dinner at the Government mess during which community singing was engaged in and short talks made. United States Commissioner T. Paul Wilcox acted as toastmaster. The evening was spent with a dance in the canteen building which closed the activities for the holiday season.

On January 3 the park received a wire from United States Senator Burton K. Wheeler of Montana advising that he had introduced a bill authorizing the use of government buildings for elementary school purposes and the use of government owned transportation facilities for transporting children to and from school where other facilities were not available. This school problem has been the subject of discussion for a number of years, and it appears as if suitable progress is being made toward its solution. A similar bill was introduced by Congressman Frank Horton of Wyoming, while Senator M. M. Logan of Kentucky introduced during the month another bill to help relieve the unsatisfactory school situation on Government reservations.

Considerable publicity was given to the Buffalo Show staged at the Buffalo Ranch on January 8, and a number of persons who had attended the Rodeo Association of America national convention in Livingston on December 6 to 8 came to the park to witness the wildlife show. With excellent weather prevailing and the road to the Buffalo Ranch in good condition, a check by rangers showed 647 persons in attendance. Besides a number of prominent riders and promoters, Mrs. Helena H. S. Pringle of New York City, prominent writer of magazine articles, and Lieutenant Colonel W. M. Hoge, Corps of Engineers, United States Army, Omaha, enjoyed the spectacle.

Charles Johnson and John Krause, garage owners from Anaconda, Montana, gave a demonstration on Swan Lake Flat on the morning of January 28 of a propellor-driven type snowplane which they constructed and which has proven successful in operation in other localities. A

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

YELLOWSTONE NATIONAL PARK

YELLOWSTONE PARK, WYO.

OFFICE OF THE SUPERINTENDENT

January 1, 1939

Memorandum for the Director:

Following is the report of activities for Yellowstone National Park for the month of January, 1939:

General - 000

The Service of Yellowstone National Park, Wyoming, was organized in the year 1896 with a headquarters located at the city of Salt Lake City, Utah. The Service was organized to protect the national parks and monuments and to preserve the natural resources of the country. The Service is now organized into several divisions and is headed by the Director of the Service. The Service is now organized into several divisions and is headed by the Director of the Service.

In January, 1939, the Service received a large number of reports from the field offices. The reports were received from the field offices and were forwarded to the Director of the Service. The reports were received from the field offices and were forwarded to the Director of the Service.

Yellowstone National Park is one of the largest and most beautiful parks in the world. It is located in the northwestern part of the State of Wyoming and covers an area of over 3,000 square miles. The park is famous for its geysers, hot springs, and lakes. It is also famous for its wildlife and its scenic beauty. The park is a great place to visit and to enjoy the natural resources of the country.

On January 1, 1939, the Service received a large number of reports from the field offices. The reports were received from the field offices and were forwarded to the Director of the Service. The reports were received from the field offices and were forwarded to the Director of the Service.

number of the members of the park force were taken on trips over the snow-covered flat, and the demonstration convinced the skeptical Park Service men that it was possible to travel over the soft snow with such a vehicle. The snowplane has a 65 h.p. airplane type motor and operates on three skis, one in front and one on each side, the skis being ten inches wide and seven and one-half feet long.

✓ 020 - General Weather Conditions

A summary of the general weather conditions in the park will be found attached to the back of this report.

✓ 021 - In the Park

In general, snowfall and precipitation throughout the park was slightly above the average for the past nine-year period.

The following tabulation shows the snow depths at the close of January for various locations in the park over a comparative nine-year period:

	<u>1931</u>	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>	<u>1938</u>	<u>1939</u>
Buffalo Ranch	8	22	16	4	11	22	12	23	12
Bechler River	32	63	86	40	43	80	64	52	70
Cooke	17	32	23	29	16	29	28	38	41
East Entrance	8	29	30	24	30	40	24	--	30
Gallatin Lake	18	24	37	17	23	25	21	15	22
Lewis River Divide	11	29	31	20	20	26	15	35	32
Mammoth	30	72	98	55	73	100	80	80	84
Old Faithful	9	21	10	3.6	6.2	16	6.5	5.5	6.9
Snake River	14	41	48	31	36	30	19	38	34
Tower Falls	23	50	51	36	37	60	43	46	56
West Yellowstone	14	24	20	5	12	26	13	24.5	15
*Crevice	16	36	38	26	30	35	34	26	38
									34

\*Previous records not available for Crevice.

All roads within the park, with the exception of the Mammoth-Cooke City road, which was plowed out each week end with snow removal equipment, remained closed to travel.

022 - Approaches to the Park

The South Entrance approach road as far north as Grand Teton National Park remained open to travel and in good winter condition, with the exception of brief periods of severe storm when the road north of Jackson, Wyoming, was temporarily blocked to travel. Teton Pass and the Hoback Canyon roads were maintained with Wyoming state snow removal equipment. Roads between Red Lodge and Cooke City, Montana, and between Ashton, Idaho, and the West Entrance were blocked with snow during January.

number of the members of the park force were taken on trips over the snow-covered flat, and the demonstration convinced the electrical Park Service men that it was possible to travel over the soft snow with such a vehicle. The snowplow has a 67 h.p. airplane type motor and operates on three skis, one in front and one on each side, the skis being ten inches wide and seven and one-half feet long.

Q20 - General Weather Conditions

A summary of the general weather conditions in the park will be found attached to the back of this report.

Q21 - In the Park

In general, snowfall and precipitation throughout the park was slightly above the average for the past five-year period.

The following tabulation shows the snow depths at the close of January for various locations in the park over a consecutive five-year period:

	1931	1932	1933	1934	1935	1936	1937	1938	1939
Buffalo Ranch	8	22	16	11	11	22	12	22	12
Becker River	25	65	86	40	43	60	61	75	70
Cooke	17	22	23	12	12	22	21	41	41
Last Entrance	2	24	30	24	30	40	21	20	20
Ballistic	13	21	27	17	23	27	22	22	22
Lake	11	20	21	20	20	22	22	22	22
Lewis River Divide	30	72	72	72	72	100	100	90	90
Washburn	2	21	10	3.6	10	10	10	7.5	7.5
Old Fairbairn	14	41	48	21	26	30	10	24	24
Snake River	23	20	21	20	21	20	13	12	12
Tower Falls	14	24	20	2	2	22	13	12	12
Fort Yellowstone	14	22	22	22	22	22	22	22	22

\* Service

\* Figures in parenthesis not available for service.

All roads within the park, with the exception of the Washburn-Cooke dirt road, which was plowed out with snow removal equipment, remained closed to travel.

Q22 - In the Park

The South Entrance approach road as far north as Grand Teton National Park remained open to travel and in good winter condition, with the exception of brief periods of severe storms when the road north of Jackson, Wyoming, was temporarily closed to travel. Teton Pass and the Teton Canyon roads were maintained with blowing snow removal equipment. Road between Red Lake and Cooke Creek, Montana, and between Jackson, Idaho, and the South Entrance were blocked with snow during January.

Due to new road construction work which was carried on until the middle of January the East Entrance approach road from Cody, Wyoming was passable to the park boundary until the last few days of the month when storms rendered this road almost impassable near the park.

The Bozeman-West Yellowstone road was maintained with Montana state snow removal equipment.

The North Entrance approach road from Livingston, Montana, as usual, remained in good condition for travel.

### 023 - In Nearby States

Usual winter conditions prevailed in nearby states and highways were in good condition for travel with the exception of those routes leading over high mountain passes.

### 100 - Administration

#### 110 - Status of Work

Superintendent Rogers returned to Washington from annual leave in Denver at the beginning of the month to be present for the Superintendents' Conference called for January 5 to 10. He remained in Washington throughout the month on special assignment, and expects to return to Yellowstone about the middle of March. Assistant Superintendent Emmert was acting in his absence.

Hugh Ebert, permanent motor truck driver, entered on duty as a permanent park ranger effective January 1.

Wyman P. Benson, WAE per-diem plumber, entered on duty as a permanent plumber effective January 1.

Clerk Fred Bertagnolli entered on duty on January 4, having been selected from the Civil Service Registry of the Thirteenth District.

Robert K. Weldon, park ranger transferred from Mammoth Cave National Park, Kentucky, entered on duty on the sixteenth.

Winnifred Meer, PWA clerk, entered on duty on January 30.

Seasonal Clerk LeRoy VanCott and Seasonal Warehouseman William N. Reeve were furloughed at the close of January 31.

Assistant to the Superintendent Joffe and Chief Clerk Neilson received orders to attend the Chief Clerks' Conference to be held in Washington February 15 to 20.

Due to new road construction work which was carried on until the middle of January the East Entrance approach was from Cody, Wyoming was possible to the park boundary until the last few days of the month when storms rendered this road almost impassable near the park.

The Roseman-East Yellowstone road was maintained with Montana state snow removal equipment.

The North Entrance approach road from Livingston, Montana, as usual, remained in good condition for travel.

103 - In nearby States

Usual winter conditions prevailed in nearby states and highways were in good condition for travel with the exception of those roads leading over high mountain passes.

100 - Administration

110 - Status of Work

Superintendent Rogers returned to Yellowstone Park and leave in Denver at the beginning of the month to be present for the Department Conference called for January 2 to 10. He remained in Washington through out the month on special assignment, and expects to return to Yellowstone about the middle of March. Assistant Superintendent Ewert was acting in his absence.

Paul Smith, permanent motor fuel driver, continued on duty as a permanent part manager effective January 1.

William L. Brown, fire protection engineer, entered on duty as a permanent plumber effective January 1.

Clifford H. Hargraves entered on duty on January 1. He has been selected from the Civil Service Division of the District District.

Robert E. Wilson, park ranger transferred from Mammoth Cave National Park, Kentucky, entered on duty on the sixteenth.

Winifred Lee, FBI clerk, entered on duty on January 30.

Personnel Clerk Lloyd V. and Personal Transportation William H. have been transferred at the close of January 31.

Assistant to the Superintendent Jaffe and Chief Clerk William received orders to attend the Civil Service Conference to be held in Washington February 17 to 20.

120 - Inspections by:

121 - Acting Superintendent

Acting Superintendent Emmert made the usual inspections around headquarters and made trips into and outside the park as follows:

January 3 - With Messrs. Joffe, LaNoue and Barrows to Gardiner to a meeting of the Gardiner Commercial Club to discuss the proposed legislation to increase the elk range north of the park by the purchase of land for addition to the Absaroka and Gallatin National Forests.

January 7 - To Livingston in afternoon to attend last days session of Rodeo Association of America's national convention. Returned Mammoth following morning. Assistant to the Superintendent Joffe attended all of the sessions, while Chief Ranger LaNoue was present on the last afternoon.

January 8 - To Buffalo Ranch with Lieutenant Colonel W. M. Hoge for Buffalo Show. Returned Mammoth for night.

January 13 - To Buffalo Ranch with Chief Ranger LaNoue. Returned Mammoth for night.

January 20 - To Buffalo Ranch with Messrs. LaNoue and Seasholtz. Returned Mammoth for night.

January 27 - To Tower Junction with Messrs. Moran and Parks of Cody. Returned Mammoth for night.

122 - Special Field Representatives of the National Park Service

George Morgan, Assistant Equipment Engineer, and F. T. Priester, Administrative Inspector, Region II, Omaha, in north January 17, out north January 20.

123 - National Park Service Officers

Martin A. Cannon and Robert C. McCarthy of the Park Operators Division, Washington, arrived via north gate January 24 with Huntley Child of the Yellowstone Park Company. Departed same day.

124 - Other Interior Department Officials

L. J. Snell, Junior Engineer, Geological Survey, Boise, Idaho, in north January 11 to inspect water gauges, out north fifteenth.

140 - Labor Situation

As practically all activities in the park were closed except those of the National Park Service, there was little opportunity for employment.

150 - Equipment and Supplies

There were one carload each of fir lumber, fuel oil and cement,

129 - Inspection by:

129 - Inspection by:

Advising Government Agent made the usual inspection of the park and made trip into and outside the park as follows:

January 5 - With Messrs. Jolly, Lacey and Brown to Birding to a meeting of the Parkers (conservation club) to discuss the proposed legislation to increase the size of the park by the purchase of land for addition to the existing and existing National Forest.

January 7 - To Birding in afternoon to attend last date session of the Association of American National Convention. Returned January following morning. Assistant to the Superintendent Jolly attended all of the sessions, while United States Deputies were present on the last afternoon.

January 8 - To Birding Ranch with Assistant Colonel W. W. Howe for Buffalo Hunt. Returned January for night.

January 17 - To Birding Ranch with United States Deputies. Returned January for night.

January 20 - To Birding Ranch with Messrs. Lacey and Brown. Returned January for night.

January 27 - To Lower Junction with Messrs. Brown and Lacey of Gody. Returned January for night.

129 - Special Field Representatives of the National Park Service

George Morgan, Assistant Equipment Engineer, and W. T. Webster, Administrative Inspector, Region IV, were in north January 19, out north January 20.

129 - National Park Service Officials

Arthur A. Gannon and Robert C. Gannon of the Park Service Division, Washington, arrived via north train January 21 with Dudley Child of the Yellowstone Park Company. Departed same day.

129 - Other Interior Department Officials

I. J. Swift, Junior Engineer, Geological Survey, Boise, Idaho, in north January 11 to inspect work progress, and north January 12.

130 - Labor Station

As practically all activities in the park were closed except those of the National Park Service, there was little opportunity for employment.

130 - Equipment and Supplies

There were one barrel each of fir lumber, fuel oil and cement.



nine carloads of coal, two carloads each of cedar telephone poles and sewer pipe, and three carloads of trucks received in addition to other shipments of lumber, paint supplies, lime and plaster, plumbing supplies, Hi-Test gasoline, groceries and crossarms weighing 28,540 lbs.

The value of storehouse issues during the month of January amounted to \$9,850.28.

#### 160 - Status of Alienated Lands

There was no change in the status of alienated lands during the month.

#### 170 - Plans, Maps and Surveys

General engineering field work under this item consisted of the extension of control for additional topographic surveys in the Mammoth area and layouts for roads, camp areas, and water and sewer lines in the Mammoth campground. All office work was in connection with Public Works projects.

#### 180 - Circulars, Placards, Publicity Bulletins, Etc.

No circulars or Nature Notes were issued during the month.

A press release with regard to the buffalo round-up and wildlife show was distributed on January 5, and a special article was prepared for submission to the Casper Tribune-Herald for its annual Wyoming edition to be published in February.

The mimeographing of the annual report was completed during the month and some 100 copies made for distribution among the various parks, the ranger stations, the Washington and regional offices, and for collectors of Yellowstone material.

#### 200 - Maintenance, Improvements and New Construction

##### 210 - Road Maintenance

Snow removal at headquarters area and from Mammoth to Cooke was the only item during the month. Snow plows were sent through to Cooke five times during the month, and with the exception of three extremely windy days, the road was open to traffic.

##### 220 - Improvements

Shops - In addition to the usual maintenance of equipment carried on, there were nine trucks and three graders overhauled. The new General fire truck was placed in service and some of the equipment from the old truck installed on the new one. The old Dodge fire truck was rebuilt into a hose wagon and being used as a secondary unit. Three new Chevrolet trucks were received during the month: Three

mine carloads of coal, two carloads each of other telephone poles and power type, and three carloads of trucks received in addition to other shipments of lumber, paint supplies, lime and plaster, plumbing supplies, Hi-Tech sealant, groceries and various weight-

The value of storehouse inventories during the month of January amounted to \$2,270.00.

### 160 - Status of Alienated Lands

There was no change in the status of alienated lands during the month.

### 170 - Plans, Maps and Surveys

General engineering field work under this item consisted of the extension of control for additional topographic surveys in the road area and layouts for roads, water courses, and water and sewer lines in the Mammoth area. All of this work was in connection with public works projects.

### 180 - Circulation, Research, Statistics, Etc.

No circulation or statistical work was issued during the month.

A press release with regard to the public road-act and which was distributed on January 7, and a special article was prepared for submission to the Cooper Highway Journal for its annual edition to be published in February.

The micrographing of the annual reports was completed during the month and some 100 copies were for distribution among the various parks, ranger stations, the Washington and regional offices, and for collectors of relic stone material.

### 200 - Maintenance, Improvements and New Construction

#### 210 - Road Maintenance

Snow removal at headquarters area and from Mammoth to Cooke was the only item during the month. Snow plows were used and Cooke five times during the month, and with the exception of three extremely windy days, the road was open to traffic.

#### 220 - Improvements

Spade - In addition to the usual maintenance of equipment worked on, the trucks and other pieces of equipment were overhauled. The new General time truck was placed in service and some of the equipment from the old truck installed on the new one. The oil change truck was rebuilt into a new wagon and being used as a secondary unit. Three new Chevrolet trucks were received during the month. Three

$\frac{1}{2}$ -ton pickup trucks, two  $1\frac{1}{2}$ -ton dump trucks and three  $1\frac{1}{2}$ -ton freight trucks.

Electrical Department - In addition to the usual maintenance and repairs, electric water heaters were installed in several of the residences and a number of automatic clamp-on type thermostats with necessary detachable caps and plugs were installed in the residences to control the temperature of the hot water.

Carpenter Shop - Work in this department during the month consisted of the cutting out and crating of three secondary fire lookout stations and minor repairs.

Paint Shop - Work in this department consisted of laying linoleum at the Buffalo Ranch, staining and painting sash and shutters for fire lookouts, writing of several signs and other regular maintenance jobs.

Plumbing Department - The usual maintenance and operation was carried on during the month.

### 230 - New Construction

The ERA program continued work already under way in the sign shop, reconstruction of the basement in the barracks building, renovating basements in Buildings Nos. 1, 2 and 3, and the basement in the U. S. Commissioner's quarters. New projects started were betterment of the road to the employees campground, general renovation of the administration building, and the construction of a four-room dwelling in the employees' residence area.

Project O.P. 266: Accomplishments on this project consisted of the completion of project plans for water and sewer for the West Thumb area and compilation of data for pipe bids for these jobs and for the Lake-Fishing Bridge water system.

A draftsman detailed by the Regional Office arrived about the middle of the month and has been at work on tracings of the topographic data necessary for the areas affected by the Public Works program.

Project O.P. 267: Pre-fabrication of framing material for two fire lookout houses was completed during the month.

### 300 - Activities of Other Agencies in the Park

#### 310 - Public Service Contractors

The general store at Mammoth was kept open throughout the month and provided excellent service for local residents.

Dr. George A. Windsor, the park medical officer who was taken seriously ill on December 7 and was removed to the Mayo Clinic in Rochester, Minnesota, returned to Livingston on January 21 and is apparently much improved, but it will require several weeks recuperation before he is in a position to continue his practice.

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520 - New Construction

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530 - Activities of Other Agencies in the Field

510 - Public Service Contractors

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## 400 - Flora, Fauna and Natural Phenomena

### 410 - Ranger, Naturalist and Guide Service

Ranger activities during the month, in addition to the usual protection patrols throughout the park and general office work, included operations in connection with the buffalo roundup and reduction and the capturing and shipping of live elk.

### 420 - Museum Service

The duties in the Naturalist Department during the month consisted of the preparation of a preliminary report on Trumpeter Swan investigations, preparation of outlines of work for the investigation of Bighorn sheep, several lectures, and routine office work.

### 460 - Birds

Rangers conducted a waterfowl census from January 14 to 20 with a total of 1725 being recorded as compared with 1618 counted last year. Included in this count were 106 trumpeter swans; while in 1938 only 45 were seen.

### 470 - Animals

Buffalo - Trapping operations were started January first and 492 buffalo had been corralled by the end of the week. The animals were baited into the corrals with hay and this method proved to be faster, more economical and less hazardous than the former method of round up the animals on horseback.

On January 8th the general public was invited to visit the ranch and 647 people in 161 cars made the trip to observe the ranch operations.

Two young bulls and a heifer were shipped to the Denver (Colo.) Municipal Parks on January 13th. Slaughtering operations were started on January 16th and the reduction of 60 animals was accomplished within the week. Twenty-seven carcasses were allotted to the Crow Indian Reservation and were obtained by that agency by truck on the 29th. The remaining 33 carcasses will be shipped to four other Indian agencies during the early part of February.

It was found that 83 of the 492 buffalo in the corrals were calves, indicating a 17% increase during the year.

Elk - A heavy migration of elk to areas north of the park occurred during the month and most of the animals observed were in good condition.

Elk Reduction - Elk trapping operations were started on January 16th and the Mammoth, Gardiner and Game Ranch traps and by the close of the month the following shipments had been made.

1400 - Flora, Fauna and Natural History

141 - Ranger, Naturalist and Guide Service

Ranger activities during the month, in addition to the usual protection patrol throughout the park and general office work, included operations in connection with the buffalo roundup and reduction and the capturing and shipping of live elk.

1420 - Museum Service

The duties in the Naturalist Department during the month consisted of the preparation of a preliminary report on Timberline Park investigations, preparation of outlines of work for the investigation of Bighorn sheep, several lectures, and routine office work.

1430 - Birds

Rangers conducted a waterfowl census from January 14 to 20 with a total of 1725 being recorded as compared with 1611 counted last year. Included in this count were 108 trumpeter swans; while in 1938 only 147 were seen.

1440 - Animals

Buffalo - Trapping operations were started January first and 1000 buffalo had been corralled by the end of the week. The animals were banded into the corral with oxy and this method proved to be faster, more economical and less hazardous than the former method of rounding up the animals on horseback.

On January 8th the general public was invited to visit the ranch and 617 people in all came with the trip to observe the ranch operations.

Two young bulls and a heifer were shipped to the Denver (Colo.) Municipal Park on January 13th. Slaughtering operations were started on January 16th and the reduction of 60 animals was accomplished within the week. Twenty-seven carcases were allotted to the Crow Indian Reservation and were shipped by truck on the 23rd. The remaining 33 carcases will be shipped to four other Indian agencies during the early part of February.

It was found that 83 of the 1000 buffalo in the corral were cows, indicating a 1% increase during the year.

Elk - A heavy ration of elk to areas north of the park occurred during the month and most of the animals observed were in good condition.

Timberline - Elk trapping operations were started on January 14th and continued through the month. Game traps and live traps will be close of the month the following equipment has been used.



Four hundred fifty buffalo in corral, January 8.  
Naturalist Dept. Photo



Bringing a buffalo into the chute, January 8.  
Naturalist Dept. Photo







Crowds visit the Buffalo Ranch on January 8th.  
Naturalist Dept. Photo



Cars parked at Buffalo Ranch, January 8th.  
Naturalist Dept. Photo



January 24 - I. H. Rieke Ranch, Wolf Creek, Montana	- 9
" 26 - Rocky Mt. Sportsmen's Assoc., Butte, Mont.	- 36
" 30 - " " " " " " "	- 33
Total -	<u>78</u>

Approval to ship 157 additional elk has been received and the deposit for trapping and loading has been made. It is anticipated that clearance for shipment of 50 additional animals will be obtained, which will make a total live elk reduction of 285.

Hunting Season - The elk hunting season in Park County, Montana was closed on the evening of January 19th with a total reduction of 2,966 according to figures received from the Montana Fish and Game Department. Originally it was reported that 3,066 had been taken. However, State Game Warden Weaver stated that 100 estimated as live shipments to be made had been included in this total.

Comparative hunting kills for the northern elk herd during the past five-year period are as follows:

<u>1934-35</u>	<u>1935-36</u>	<u>1936-37</u>	<u>1937-38</u>	<u>1938-39</u>
2567	2282	256	3586	2966

#### 480 - Phenomena

The only notable change in the Mammoth Hot Springs area was at Blue Spring. On January 1 at 12:00 noon the spring was normal and flowing more than one cubic foot per second in the run-off channel. At 1:30 p.m. on the same day this spring became totally dry.

On January 2 the water was again issuing from the vent in small quantity but all of the lower basins were dry and there was a great display of blue-green algae in all of the dry basins. It was not until January 15 that Blue Spring regained its normal activity. Apparently as much water is flowing from the vent as ever but none of it is flowing down the channel over Jupiter Terrace as was formerly the case.

The entire summit of the formation at Blue Spring is being quite rapidly elevated and a large section of the new black top trail is now under water.

There have not been any noticeable changes in the activity of the other geysers during the month of January.

#### 500 - Use of Park Facilities by the Public

##### 510 - Increase or Decrease in Travel

First-entry cars during the present travel year have increased 59.6% over those for the same period last year. This increase is partly due to the fact that many hunters attracted to the areas north of the park included in their hunting trip a visit to the northern area of the park and partly to the large number of cars which made the trip to the Buffalo Ranch on January 8, when the public was invited to wit-



ness the buffalo roundup operations.

The total increase in park visitors for the travel year to date is 5%.

A summary of the travel for the month will be found at the back of this report.

### 530 - Visitors

Mrs. Helena Huntington Smith Pringle, prominent writer of magazine articles, arrived via the north gate on January 8 to collect material for the preparation of special articles for which assignments had been given her. She made trips to the Buffalo Ranch and to the Crevice ranger station, at which latter place she interviewed former Chief Ranger Jim McBride, one of the park's old timers. She left for Casper, Wyoming on the sixteenth.

Lieutenant Colonel W. M. Hoge, Corps of Engineers, United States Army, Omaha, arrived via the north gate on January 8, and departed out north same day.

Bishop Winfred A. Ziegler, Bishop of Wyoming, entered at the north gate on January 15 and conducted services in the park's chapel that evening.

### 600 - Protection

#### 610 - Police Protection

No arrests were made during the month.

#### 620 - Fire Protection

No forest or building fires occurred during January.

#### 630 - Accidents

There were no automobile accidents during this period.

### 900 - Miscellaneous

Post Office - Receipts for the month of January showed a slight decrease over the corresponding month of 1938. This is due to the fact that there are no construction work going on at the present time in the park.

Church Services - Reverend Lewis D. Smith, Episcopal minister from Livingston, and Bishop Winfred A. Ziegler, Bishop of Wyoming conducted Episcopal services in the chapel on the evening of January 15. Lutheran services were conducted in the canteen building by Reverend Webster D. Clement of Livingston on the thirtieth.

near the end of January.

The total increase in park visitors for the travel year is 27.

A summary of the travel for the month will be found at the back of this report.

530 - Visitors

His Honor Huntington White, prominent writer of magazine articles, arrived at the park on January 2 to collect material for the preparation of a special article for which assistance had been given him. The same trip to the Buffalo Ranch and to the Gravelly Ranger station, at which latter place he interviewed former United Ranger Jim Smith, one of the park's old timers. He left for Casper, Wyoming on the sixteenth.

Lieutenant Colonel W. M. Hoop, Corps of Engineers, United States Army, Omaha, arrived via the north side of January 5, and departed on the same day.

Bishop Winifred A. Kiebler, Bishop of Wyoming, started at the north gate on January 15 and conducted services in the park's chapel that evening.

600 - Protection

610 - Police Protection

No arrests were made during the month.

620 - Fire Protection

No forest or building fires occurred during January.

630 - Accidents

There were no automobile accidents during this period.

700 - Miscellaneous

Post Office - Receipts for the month of January showed a slight decrease over the corresponding month of 1933. This is due to the fact that there are no construction work going on at the present time in the park.

Church Services - Services were held at the D. Little, Episcopal minister from 1933, Bishop Winifred A. Kiebler, Bishop of Wyoming conducted Episcopal services in the chapel on the evening of January 15. Lutheran services were conducted in the eastern building by Reverend Webster D. Stewart of Livingston on the thirteenth.

Hospital and Medical - There were 30 home and 160 office calls reported for the month of January.

C.C.C. - During the first half of the month three of the appointive personnel were on annual leave.

For the first 23 days of the month the Company's strength of both camps YNP 1 and YNP 7 were still reduced by reason of the fact that a number of enrollees had availed themselves for approved Christmas leave. On January 23, 153 new enrollees, all Fifth Corps boys, were enrolled in the two Mammoth camps--85 in Camp 1 and 73 in Camp YNP7. Since the arrival of the new enrollees the progress on all jobs has showed a decided increase. Work which was temporarily halted on the new car storage shed at Mammoth was resumed on January 25 and very good progress has been made since that time. Equipment in the Gardiner gravel pit is being put in shape for operation. The crushing of gravel for the campground will be started at once. Progress on the new Mammoth Campground Development has showed very good progress during the last half of January. A few men were still working on the incomplected cottage near the power house at Mammoth.

- - - - -

The regular monthly meeting of the Federal Employees' Union was held in the canteen on January 9. New officers for the ensuing year were elected as follows: T. Paul Wilcox, President; Curtis K. Skinner, Vice-President; Ladd Shorey, Secretary; Joe Way, Guardian. The Executive Committee elected consists of R. R. Robinson, Jr., Chairman; Fred Bussey, Boyd Larsen, David Condon and Charles Wright. Following the meeting several reels of motion pictures were shown for the entertainment of the members and visitors from the community.

A tournament of volley-ball was organized on January 12 consisting of six teams, and the tournament began on January 19 for two nights each week, Mondays and Thursdays. The tournament was to be completed on February 2.

At the regular weekly meeting of the Yellowstone Chess Club Roger Miller was elected President; Claude Anthony, Vice-President; Glenn Williams, Secretary-Treasurer. The club meets each Tuesday.

Otto Biastoch, meat market operator from Butte, Montana and brother of Plumber Foreman Herman Biastoch, died on January 17 as a result of injuries sustained when hit by a car as he was attempting to cross one of the Butte streets.

Messrs. Joffe, LaNoue and Barrows attended the annual meeting of the Montana Wildlife Federation in Butte, Montana from January 22 to 24.

The regular annual meeting of the Federal Credit Union was held in the canteen on January 24 and the business of the past year reviewed. Edmund B. Rogers, Phil Wohlbrandt and Francis R. Oberhansley were elected for two-year terms to fill existing vacancies on the Board of Directors. Officers elected by the Board of Directors were as follows: Francis R.

Hotel and Medical - There were 30 beds and 100 office calls reported for the month of January.

G.C.C. - During the first half of the month the following personnel were on annual leave.

For the first 25 days of the month the Company's schedule of shift camps YIP I and YIP II were still normal in respect of the fact that a number of employees had various themselves for approved Christmas leave. On January 25, 1954 new employees, all with foreign logs, were enrolled in the two month camps--YIP I and YIP II in Camp YIP. The arrival of the new employees and progress of all jobs had caused a decided increase. Work which was temporarily halted on the new site storage and at about the middle of January 25 the work on progress has been made since that time. Attention in the weather reveal the is being put in shape for operation. The unloading of gravel for the company will be started at once. Progress on the new month of Ground Development has been very good progress during the last half of January. A few men were still working on the uncompleted of near the power house at about:

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The regular monthly meeting of the Federal Employees Union was held in the canteen on January 9. A few officers for the evening were elected as follows: T. Paul Wilson, President; Curtis K. Skinner, Vice-President; Jack Danney, Secretary; Joe Ray, Treasurer. The Executive Committee of the Federal Employees Union, consisting of Fred Danney, Jack Danney, David Danney and Charles Danney, following the meeting several notes of action pictures were shown for the entertainment of the members and visitors from the community.

A tournament of volleyball was on until January 12 consisting of six teams, and the tournament began on January 10 for two nights each week, Monday and Tuesday. The tournament was to be completed on February 2.

At the regular monthly meeting of the Yellowstone Bus Lines (YBL) Miller was elected President; Frank Anderson, Vice-President; William Williams, Secretary-Treasurer. The club meets each Tuesday.

Otto Westwood, well known operator from Little, Montana and brother of Plumber Herman Westwood, died on January 17 as a result of injuries sustained when his car was attempting to cross one of the Bus streets.

Mrs. J. J. J. and Herman Westwood attended the annual meeting of the Montana Wildlife Federation in Butte, Montana from January 22 to 24.

The regular annual meeting of the Federal Trade Union was held in the canteen on January 23 and the minutes of the past year reviewed. Edward A. Jager, Bill Westwood and Herman J. Westwood were elected for two-year terms to fill existing vacancies on the Board of Directors. Officers elected by the Board of Directors were as follows: Harold R.



Oberhansley, President; Phil Wohlbrandt, Vice-President; Fred Bussey, Treasurer and Clerk; and Ladd Shorey, Alternate Treasurer and Clerk. The following committees were also elected: Credit Committee - Curtis K. Skinner, Chairman, Bill Wright and Lloyd Holman; Auditing Committee - Maynard Barrows, Chairman, Boyd Larsen and Willis Welch. A program of music and motion pictures were enjoyed following the meeting.

J. W. Emmert,  
Acting Superintendent.

VG

Operational, President; Bill Wohlwend, Vice-President; Fred Pless, Treasurer and Clerk; and Ed Kelly, Alternate Treasurer and U. M. The following committees were also elected: Credit Committee - Curtis K. Skinner, Chairman; Bill White and Lloyd Bolam; Auditing Committee - Raymond Brown, Chairman; Tom Larson and Willis Nelson. A program of radio and motion pictures were enjoyed following the meeting.

J. W. Smith,  
Acting Superintendent.

DEPARTMENT OF THE INTERIOR

10-157  
(July, 1929)

NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone

National Park for the month of January, 1939

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

PRIVATE TRANSPORTATION:

Cars first entry, . . . . .	331	2163	71	1355	808	59.6
Cars reentry, . . . . .	175	1173	43	1784	-611	-34.2
Motorcycles, . . . . .				6		
Total motor vehicles, . . .	<u>506</u>	<u>3336</u>	<u>114</u>	<u>3145</u>	<u>191</u>	<u>6.1</u>
Persons entering via motor vehicles, . . . . .	1547	9504	342	9050	454	5.0
Persons entering via other private transportation, . . .						
Total persons entering via private transportation, . . .	<u>1547</u>	<u>9504</u>	<u>342</u>	<u>9050</u>	<u>454</u>	<u>5.0</u>

OTHER TRANSPORTATION:

Persons entering via stages, . . .						
Persons entering via trains, . . .						
Persons entering otherwise, . . .						
Total other transportation, . . .						
GRAND TOTAL ALL VISITORS, . . .	<u>1547</u>	<u>9504</u>	<u>342</u>	<u>9050</u>	<u>454</u>	<u>5.0</u>

	:	This	:	Last	:	Increase
	:	Year	:	Year	:	
	:	:	:	:	:	Number Percent

Automobiles in public camps during month, . . . . .  
Campers in public camps during month, . . . . .



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone

National Park.

Month of January, 1939

	THIS YEAR	LAST YEAR
Park revenue on hand beginning of month.....	-	-
Received.....	\$25,776.52	\$49,434.66
Total.....	\$25,776.52	\$49,434.66
Remitted.....	\$25,776.52	\$49,434.66
On hand close of month.....	-	-
Park revenues received this year to date.....	\$344,915.59	
Park revenues received last year to date.....	414,938.92	
<del>Increase</del> Decrease.....	70,023.33	
Percent of <del>increase</del> decrease.....	16.87	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Following National Park Month of January 1932

Last Year	This Year	
-	-	Park revenue on hand beginning of month
110,431.66	107,776.32	Received
110,431.66	107,776.32	Total
110,431.66	107,776.32	Remitted
-	-	On hand close of month
	110,431.66	Park revenues received this year to date
	110,431.66	Park revenues received last year to date
	107,776.32	Percent of increase
	107,776.32	Percent of decrease

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone

National Park for the Month of January, 1939

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	Reg. 90 CCC 18	18	Reg. 86 CCC 20	8
Number of additions	Reg. 3 CCC 0	6	Reg. 1	6
Total	111	24	107	14
Number of separations	Reg. 2 CCC 0	16	Reg. 2	5
Number of employees close of month	Reg. 91 CCC 18	8	Reg. 85 CCC 20	9
Number of promotions during month	* 1		0	
Aggregate amount of annual leave taken	Reg. 181-7/32 CCC 71-1/8	172-1/8	Reg. 180-15/16 CCC 11	
Aggregate amount of sick leave taken	Reg. 11 CCC 9	0	Reg. 30-1/8 CCC 32	
Aggregate amount of leave without pay	31	0	0	

\*Reported in December report in error.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

STATE OF ARIZONA

Yucca stone  
National Park for the month of  
January, 1931

This Month Last Year		This Year		
Appointed	Appointed	Appointed	Appointed	
Non-Appointed	Non-Appointed	Non-Appointed	Non-Appointed	
0	0	15	15	Number of employees beginning of month
0	0	0	0	Number of additions
11	11	11	11	Total
0	0	0	0	Number of separations
0	0	0	0	Number of employees close of month
0	0	0	0	Number of promotions during month
0	0	0	0	Aggregate amount of annual leave taken
0	0	0	0	Aggregate amount of sick leave taken
0	0	0	0	Aggregate amount of leave without pay

\* Reported in December report in error.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC. \*

Yellowstone

National Park for the Month of

January, 1939

	THIS MONTH	THIS TRAVEL YEAR TO DATE	THIS MONTH LAST YEAR	LAST TRAVEL YEAR TO DATE	INCREASE FOR TRAVEL YEAR	
					NUMBER	PERCENT
Current generated.....	119,800	791,000	106,600	693,400	97,600	14.7
Sold to park operators.....	741	61,028	681	62,340	-1,312	- 2.1
Sold to others.....						
<b>Sold</b> <del>Provided</del> to other governmental agencies.....	795	6,322	* 958	* 958	5,364	55.9
Used by National Park Service, lost in transit, etc.....	118,264	723,650	104,961	630,102	93,548	14.8
Total current generated.....	119,800	791,000	106,600	693,400	97,600	14.7

Amount receivable from the sale of electricity, to operators (1939) . . . . . \$ 20.75  
(1938) . . . . . \$ 46.08

\*Billing to governmental agencies for electricity was begun in January, 1938. Therefore, no record for 1938 travel year.

\*Indicated by kw.-hr.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC.\*

Yellowstone

National Park for the Month of

January, 1933

PERCENT	NUMBER	LAST TRAVEL YEAR TO DATE	THIS MONTH LAST YEAR	THIS TRAVEL YEAR TO DATE	THIS MONTH		INCREASE FOR TRAVEL YEAR	
11.7	27,600	607,100	105,600	701,700	119,800	Total current generated		
- 8.1	-1,250	64,500	600	61,000	701	Sold to park operators		
						Sold to others		
5.9	2,200	4,700	4,000	6,200	701	Transmitted to other governmental agencies		
11.8	27,200	607,100	105,600	701,700	118,800	Used by National Park Service, lost in transit, etc.		
11.7	27,600	607,100	105,600	701,700	119,800	Total current generated		

\*Billing to governmental agencies for electricity was begun in January, 1933. Therefore, no record for 1932 travel year.

Amount receivable from the sale of electricity to operators (1933) \$ 20.77  
 (1932) \$ 16.08

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of January, 1939

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

LOCAL BUSINESS

	Mammoth excluded			
Miles of circuit maintained, . . . . .	462	604	- 142	- 23.5
No. of telephones connected, . . . . .	270	279	- 9	- 3.2
No. of measured service calls, . . . . .				
No. of other local calls, . . . . .				
Total No. of local calls, . . . . .				
Peak load in calls per day, . . . . .				

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

TOTAL RECEIPTS

LONG DISTANCE BUSINESS

No. Outbound calls, . . . . .	
No. Inbound calls, . . . . .	

TOTAL LONG DISTANCE CALLS

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, . . . . .	
" " " " receipts, . . . . .	

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

10-182

REPORT ON DEVELOPMENT AND RESEARCH BUSINESS

Inventory, 1958

Inventory Form for the Month of

July 1958

Inventory	Development	Research	Total
100	100	100	300
100	100	100	300

LOCAL BUSINESS

Number of visitors  
 No. of employees  
 No. of animals  
 No. of water level  
 Total No. of  
 Peak load in

Report from

Inventory

Total

Inventory

No. of

No. of

Total

Inventory

Inventory

Inventory

Inventory

Total

Inventory

Inventory

Inventory

Total

DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

Yellowstone National Park

Monthly Report of  
Minor Roads and Trails Projects

(Area)

As of January 31, 1939  
(Date)

Total Mileage for Area:  
Minor Roads..... Miles  
Trails..... Miles

Proj. No.	Description of Project	Type of Work	Mile-	% Com-	Appropri-	Amount	Amount	Remarks
			age of Proj.	plete	tion Symbol	Allotted	Expended	
		No Minor Roads and Trails Projects active						

YELLOWSTONE  
NATIONAL PARK  
LIBRARY

4644



Yellowstone Park, Wyoming.  
January 3, 1939.

MEMORANDUM:

The following report of activities under the supervision of Engineering for the month of December, 1938, is submitted:

No. 170-Maps, Plans, and Surveys:

Combined winter weather conditions and a reduction in the Engineering personnel made it necessary to terminate practically all field work, other than supervision of the P.W.A. construction at Lake and West Thumb, about the middle of the month. Topographic data obtained for the Lake-Fishing Bridge and West Thumb areas was plotted in the office and plans for the West Thumb water and sewer systems about 70% completed.

Engineering on C.C.C. projects was confined to work on the Mammoth Campground and staking for the installation of sanitary service in the Mammoth cottage area.

No. 200-Road Maintenance:

The General Foreman and a varying crew of two to four men were sufficient to handle all general maintenance, principally on the roads and streets in the vicinity of the headquarters area. The work consisted of the removal of small rock slides in the Gardiner Canyon, resetting of some snow fence and snow stakes on the Northeast Entrance road, and sanding the icy North Entrance road. The snow plow cleared the road to Cooke three times during the month.

No. 230-New Construction:

Work in connection with the E.R.A. program consisted of the continuation of the rustic sign work, with approximately 100 signs completed, reconstruction of the basement in the north end of the barracks building nearly completed and ready for the installation of the new heating plant, start of the renovation of basements of Buildings number 1, 2, and 3, and completion of work on the Mammoth Terrace Trail closed down during the summer season because of conflict with traffic.

Project O.P. 266\*-Actual construction work closed down on December 7 because of unfavorable weather conditions. At that time the 50,000 gallon water reservoir at West Thumb had been completed and much of the necessary material for early spring work had been hauled to the area. Bids for electric generating plants for West Thumb, Lake, and Old Faithful were awarded during the month at a cost of approximately \$38,500. Designs for both the water and sewer systems at West Thumb were well under way.

Project O.P. 267:-Deep snow at the sites of the various proposed fire lookouts made it impossible to carry on any work in the field but work was well under way at the headquarters shops on the pre-fabrication of two of the proposed structures.





Contract Construction:

McNutt Brothers maintained a large construction crew on the East Entrance Approach Road until well into the month concentrating on work between Pahaska and the East Gate. A small crew is still at work on rock cuts on the line about six miles east of the Park boundary.

Note\*:-

No Roads and Trails projects active during the month.

1-2-2



MONTHLY METEOROLOGICAL SUMMARY  
YELLOWSTONE PARK, WYO.

January, 1939

LOCATION MONTH

Table with columns: TEMPERATURE, °F. (Maximum, Minimum, Mean, Normal mean), RELATIVE HUMIDITY (Percentage) (M., Local noon, M.), PRECIPITATION (Total, Snowfall, P. m. to p. m., Unmelted), WIND (Prevailing direction, Highest velocity, Direction), WEATHER (Percentage of possible sunshine, Character of day), Date, River stage (feet). Rows 1-31 and monthly totals.

a. m. and p. m., ... th meridian time. T indicates a trace of precipitation. \*Sunrise to sunset. †Total. ‡Monthly.

SUMMARY

BAROMETRIC PRESSURE  
Daily mean 30.15  
Highest 30.75, date 26  
Lowest 29.62, date 31  
TEMPERATURE  
Daily mean 39  
Highest 47, date 22  
Lowest -34, date 1904  
Range this month since +3.8; highest, lowest  
Average daily departure +3.8  
Average daily departure 1933 January 1,  
Degree days  
PRECIPITATION  
Greatest amount in 24 hours 0.77  
Departure from normal this month Jan. 1st. +0.44  
Accumulated departure since 4.4  
Greatest 24-hour amount 7.8, date 11-12  
Snow on ground on 15th, and at end of month 6.9

WIND  
Prevailing direction SW, average hourly velocity 8.8  
Highest wind velocity this month since 30, date 2, 1933  
miles from, on, in  
WEATHER  
Number of days clear 8, partly cloudy 5, cloudy 18, with measurable precipitation (0.01 inch, or more)  
MISCELLANEOUS PHENOMENA—DATES OF  
Hail 4, 9, 28, 31  
Halos, solar 0; halos, lunar 0  
Fog, light; fog, dense  
Frost, light, heavy, killing†  
Sleet 0  
Thunderstorms  
Duststorms 0  
†Frosts not recorded in autumn after first "killing", except in Florida and along the immediate coast of the Gulf of Mexico.

MEAN TEMPERATURE AND TOTAL PRECIPITATION THIS MONTH IN—

Table with columns: Day (1-31), Mean Temperature, Total Precipitation. Values for temperature range from 14.8 to 22.8 and precipitation from 0.11 to 0.83.

Charles L. Howard

# MEMORANDUM

TO : [Illegible]

FROM : [Illegible]

SUBJECT : [Illegible]

[Illegible text follows, consisting of several paragraphs of a memorandum format.]

DATE : [Illegible]

BY : [Illegible]

[Illegible text at the bottom of the page, possibly including a signature or distribution list.]



