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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO.

MONTHLY REPORT

January, 1938.

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U. S. GOVERNMENT PRINTING OFFICE

6-7410

Director.



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

YELLOWSTONE PARK, WYOMING

February 4, 1938

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

Dear Mr. Director:

Following is the report of activities for Yellowstone National Park for the month of January, 1938:

000 - General

while January last year was the coldest January of record since the establishment of the Mammoth station, with a mean temperature of 2.2° and sub-zero temperatures recorded on 20 of the 31 days this year recorded mostly mild temperatures but considerably more precipitation than a year ago. The month averaged 2.3° warmer than normal, the mean temperature being 20.5° while the average for the month is 18.2°. Sub-zero temperatures occurred on only 2 days, -14° on the twenty-ninth and -19° on the thirtieth. The 21.1 inches of snowfall this January was 4.2 inches more than normal and had a water content of 1.41 inches. Snowfall amounting to 5.5 inches fell in one 24-hour period, most of it in three hours the evening of the twenty-second. Clear weather was recorded for 7 days, 2 were partly cloudy and 22 were cloudy with a measurable precipitation of 0.01 inch recorded on 17 days of the month. There were 22 storms during the month.

The New Year was ushered in with a celebration at Mammoth in which most of the residents participated. With a clear sunshiny day on January 1 the group engaged in a Mummer's Parade in which many persons masked and were in costume, present a somewhat weird appearance. Following the parade, almost the entire community proceeded to the Mammoth mess hall where dinner was served. Following the dinner, entertainment and community singing were engaged in and it was altogether an auspicious welcome of the New Year into the park. Following the dinner and entertainment most of the people returned to their homes and tuned in on their radios to listen to the various football games being broadcast from the Rose Bowl, Sugar Bowl, Cotton Bowl and other bowls of the country.

Heralded as young 1938 a 9-lb. baby boy was born at the Park Hospital in Livingston to Mr. and Mrs. Charles Wright early on the morning of New Year's Day. Mr. Wright is employed as a clerk in the CCC office at Mammoth. The new arrival was named Craig Steven and was the first child to be born in Livingston in the New Year.

# UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE YELLOWSTONE NATIONAL PARK YELLOWSTONE PARK, WYCMING

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MUMMERS PARADE
MAMOTH COMMUNITY, JANUARY 1, 1938



Mummers assembling at the Canteen for the parade.

A many legged and many sexed "dragon" is led past the Grill to join the line of March at Pryor's Store.





The Mummers in parade formation ready for the march to the Mess Hall for New Year's dinner.

Pictures by William E. Kearns.



## MUMMERS' PARADE MAMMOTH COMMUNITY, JANUARY 1, 1938



Carol Larson, Patsie Kearns, Joel Larson, and Don Kearns from the parade of the months.



From January to December, the children formed a parade of the months.

Pictures by William E. Kearns.



## MUMMERS' PARADE MAMMOTH COMMUNITY, JANUARY 1, 1938

Assistant Chief Ranger and Mrs. Curtis Skinner present "leering countenances" but fail to hide their identity.





Master Painter, Lee Tompkins in grotesque garb, with his children Doris and Stanley.

Pictures by William E. Kearns.



The second New Year baby to be born to a park family was a son to Mr. and Mrs. Roland Pray at the Park Hospital in Livingston on January 8. Mr. Pray is a CCC foreman.

In order to encourage winter sports and to acquaint the people with the spectacular wildlife show which the park affords in winter. persons living nearby the park were invited to visit it on Sunday. January 2. With excellent weather some 250 persons from Livingston. Bozeman, Butte, Gardiner, Emigrant and Mammoth made the trip to Tower Falls to where the road had been plowed open in connection with the disposal of surplus buffalo from the Buffalo Ranch. All report an excellent outing and much wildlife was observed along the way. A similar invitation which included the town of Cody was extended for the twentythird of the month and despite bad weather some 88 persons made the long jaunt from Cody via Laurel and Livingston, more than 250 miles each way, to participate. The Cody crowd were housed in Gardiner and attended a banquet and dance held in their honor at Mammoth on the night of the twenty-second. The severe snowstorm of that night somewhat inconvenienced the group but everyone reported a most wonderful time and expected to repeat the performance at some future date. After a morning which included a trip to Tower Falls to see the wildlife, the "Codyites" returned to their homes on Sunday afternoon.

Not many days after the New Year tragedy struck the park when on January 9 Judson M. Rhoads, Park Ranger, committed suicide at the West Yellowstone ranger station at 3:15 a.m. Rhoads was 31 years old and had been a ranger in the Yellowstone since August 21, 1934. Following graduation from the University of California School of Forestry in 1931 Rhoads served in both Lassen and Yosemite National Parks in temporary capacities before coming to the Yellowstone in 1934. Ranger Rhoads had not been in normal health for some time having developed a morose mental condition which led to his despondency. He had been to the town of West Yellowstone Saturday evening and had returned to his home only a short time before his wife heard the shot that ended his life. A quartet of park rangers left Mammoth for West Yellowstone by car via Livingston and Bozeman immediately upon receipt of the report of the tragedy and brought the remains back to Livingston where they were prepared for burial. The body was shipped by train from Livingston to Covelo, California, Rhoads' home, on January 11 for interment. The deceased was survived by his wife and two children, a boy three years old and a girl four years old. Burial was at Covelo on January 16.

The day following the death of Ranger Rhoads the country was shocked to learn of an airplane disaster in the Bridger Canyon about 13 miles northeast of Bozeman, Montana which resulted in the death of ten persons, including Al Croonquist, who for many years had been a close friend and booster for the Yellowstone. Mr. Croonquist, upon the formation of the Dude Ranchers' Association about 1924, served as its first vice-president and later as executive secretary, having resigned a couple of years ago to accept a position as representative for the Northwest Airlines in Billings. His passing will be greatly missed by his many friends, associates and admirers.

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In direct contrast with last year's elk reduction program when by the end of January the herd had been reduced by but 200. 74 taken by hunters, 120 slaughtered, and 6 having died of natural causes, it was necessary for the Montana Fish and Game Commission to close the season this year, after 5 days' notice, on the evening of January 8 after more than 3,000 elk, originally set as the maximum reduction number. had been killed. A check through all checking agencies after the official closing on January 8 showed a total reduction of 3.586 animals. The climax of the hunting season was reached on January 1 and 2 when approximately 2,000 elk were killed and approximately 1,500 hunters were on the Deckard Flat or "firing line" area at one time. On the last day of the open season there were more hunters in the field than at any other time. A total of 693 autos were counted between Gardiner and the "firing line" and it is estimated that there were at least 2.700 hunters swarming over the area. Only 300 elk were taken on the last day. Sixty-three deer, 10 moose and about 150 elk were illegally killed in the "firing line" area, one hunter was fatally wounded by a stray bullet during the heavy bombardment on the morning of December 18 and it was reported at various times during the heavy shooting that several others were slightly winded. The "firing line" kill invoked considerable criticism again and while many of the Cardiner people wanted the area opened and so petitioned the Came and Fish Commission they expressed regret at the results from opening this area. The Park Service at no time favored the opening of this area to hunting and so indicated at two meetings in Livingston and Mammoth to the Montana Game Commission. Due to weather conditions and a hard crust having been formed over the northern game range by rain storms in late November and early December and a subsequent freeze the elk moved out of the park into the hunting territory and regardless of what system might have been used there would have been a large kill. It as thoroughly determined during the hunting season this winter that the movement of the elk is entirely dependent upon weather conditions. One hundred thirteen live elk were shipped during the month to the Beaverhead Sportsmen's Association for planting near Dillon, Montana and two other live shipments are pending to be made during February. The total reduction from the northern herd for this winter should be around 3,800 or 3,900.

Dr. R. E. Fallis of Chicago, Illinois visited the park on January 14 and returned again on the sixteenth with Mrs. Fallis to take over his duties as the resident physician for the park. Dr. Fallis was selected by Dr. Windsor, the park medical officer, as a successor to Dr. Paul Gailmard who was relieved from his position in December. Dr. Fallis is a young and energetic physician and surgeon and appears to be particularly well suited for the park job. During his short stay here the members of the community have been greatly impressed by his personality, conscientiousness and desire to render excellent service.

The doors of the new Mammoth Post Office were opened for business

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on January 18 and the new structure presents an excellent appearance in the Mammoth community and should aid materially in the service to be rendered the general public. The Mammoth people were given an opportunity to see the new \$85,000 structure on the evening of January 17 when open house was held and the building created a most favorable impression upon everyone. It is a splendid addition to the Mammoth group and is the third of the buildings to be erected by the Government at headquarters, the apartment house being the first and the utility building next. The walls of the lobby are faced with travertine from the travertine mines above Gardiner while the building is of steel, concrete and native rock and is modern in every respect. It was originally started by Siegfus Brothers of Salt Lake City. Utah but due to the unsatisfactory progress of the contractor the bonding company had to take over the completion and a new contract was let by the surety to Coomer and Small of Sioux City, Iowa who completed the project.

The Mammoth school re-opened on January 3 after a two weeks holiday during the Christmas and New Years season.

Robert C. Reamer, 65, the architect for the Old Faithful Inn, Canyon Hotel and the new Mammoth development died at his home in Seattle on January 7.

#### 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

Unusually mild temperatures prevailed throughout the park during the month. At Mammoth sub-zero temperatures were recorded on only two dates, January 29 with -14° and January 30 with -19°. The lowest temperature in the park was recorded at the Buffalo Ranch on the morning of January 30, this temperature being -37°. On the same date a temperature of -35° was recorded at West Yellowstone.

An unusual snow storm occurred on the north side of the park when on the evening of January 22 from six to ten inches of very heavy and wet snow fell in a few hours. The storm was accompanied by thunder. Snow depths throughout the park were generally greater than last year and water content was generally greater in all sections.

The following table shows comparative snow depths for various locations in the park for an eight-year period:

(See next page)

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Location	1931	1932	1933	1934	1935	1936	1937	1938
Buffalo Ranch	8	22	16	4	11	22	12	23
Bechler River	32	63	86	40	43	80	64	52
Cooke	17	32	23	29	16	29	28	38
East Entrance	8	29	30	24	30	40	24	-
Callatin	18	24	37	17	23	25	21	15
Lake	11	29	31	20	20	26	15	35
Lewis River Divide	30	72	98	55	73	100	80	80
Manmoth	9	21	10	3.6	6.2	16	6.5	5.5
Old Faithful	14	41	48	31	36	30	19	38
Snake River	23	50	51	36	37	60	43	46
Soda Butte	18	22	14	7	7	22	14	25
Tower Falls	14	24	20	5	12	26	13	24.5
West Yellowstone	16	36	38	26	30	35	34	26

The only highway open to travel throughout January was the north entrance road to Mammoth. The Mammoth-Tower Junction road was opened by snow removal equipment on two occasions in connection with wildlife operations and was open to general travel over two week-ends. A considerable number of people from southern Montana towns took advantage of this to engage in winter sports activities at Tower Junction and to observe wildlife along this road.

#### 022 - Approaches to the Park

The approach road from Livingston to the north entrance of the park was kept open to travel throughout January. Sections of this road were icy at times and careful driving was necessary. Montana State snow removal equipment was used regularly on the Bozeman-West Yellowstone road and travel between these places was not interrupted by storms except for brief periods of a few hours. Travel terminated at West Yellowstone and the west entrance to the park, of course, remained closed.

#### 023 - In Nearby States

As has been the practice in recent years surrounding states maintained all of the principal highways which have been kept open to winter travel. Among the roads approaching the park which remained blocked by snow through January were the West Yellowstone—Ashton, South Entrance—Moran, and Red Lodge—Cooke City roads. Travel was possible from Cody to within a few miles of the east entrance during the early part of the month but at the close of the period the road was impassable to automobiles beyond Holm Lodge, 9 miles east of the park entrance. In the Jackson Hole area the Hoback Canyon road remained open through Jackson and as far north as headquarters at Grand Teton National Park. The Teton Pass road from Jackson, Myoming to Victor, Idaho also remained open during the month.

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#### 100 - Administration

#### 110 - Status of Work

Superintendent Rogers was away from the park during the entire month. He was on leave of absence in Denver until the fifteenth on which date he departed for Washington to attend a conference of park superintendents called for the week of January 17-21. He returned to Denver on the twenty-ninth and expects to arrive back in the park on February 3 or 4.

Park Naturalist Bauer was absent on amual leave from the thirteenth to the end of the month. He departed on the fifteenth for Las Vegas, Nevada to get to a lower and warmer climate in order to recuperate from an illness which has incapacitated him for service during the past five months. Dr. Bauer expects to get an assignment to Death Valley National Monument which will keep him in that lower area for a couple of months.

A number of employees were absent due to illness and there was considerable sickness in the community during the month. Acting Chief Ranger LaNoue and Acting Assistant Chief Ranger Elliott were both absent on account of sickness about three weeks of the month, while Mrs. E. A. Allan, Telephone Operator, was hospitalized on January 22 and was out the rest of the month. Telephone Operator Irene Withauckas was on leave from the third to the seventh inclusive.

Assistant Chief Ranger George Miller, in charge of CCC activities, returned to the park from annual leave January 10 having been away from the Yellowstone since the middle of December.

Mrs. Loustalet Quinn, Clerk in the Chief Ranger's office, returned from leave on the seventeenth having been away from the park since the middle of December.

Chief Clerk Keith Neilson departed on annual leave on the twenty-seventh to be gone until early March.

Henry H. McCully, selected from a Washington Civil Service certificate for the position of park ranger, reported for duty at noon January 3 vice Raymond West. With the passing of park ranger Judson Rhoads there remains two vacancies in the park permanent organization yet to be filled.

On January 20 the Secretary of the Interior approved the transfer of Glenn D. Williams as clerk in the disbursing office of the Treasury Department at Helena, Montana to the position of clerk in the Yellowstone organization vice Jerry Tonini. Mr. William's will report on February 16.

On January 18 thepark received copies of announcements of examinations issued by the office of the District Manager, Thirteenth

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Civil Service District, Denver, Colorado, for the position of gasoline engine operator, road maintenance foreman, garageman-driver, incinerator operator, irrigator, truck driver, power grader operator, painter, plumber, plumber's helper, and packmaster, the closing date for the filing of applications for which is February 9. These examinations are to fill future vacancies in the park's summer organization. On January 26 copies of the announcement issued by the Thirteenth District for an examination for guard, the closing date for the filing of applications for which is February 9, were received.

#### 120 - Inspections by:

#### 121 - Acting Superintendent

During the absence of Superintendent Rogers, who was on leave in Denver and attending a conference of park superintendents in Washington, Assistant Superintendent Emmert was Acting Superintendent.

Acting Superintendent Emmert made the usual inspections around headquarters and attended a meeting of the Rotary Club in Livingston on January 17 with Mr. Joffe and with Mr. Joffe and U. S. Commissioner Wilcox attended a meeting of the Gardiner Commercial Club in Gardiner on the evening of the eighteenth.

Assistant to the Superintendent Joffe and Acting Chief Rangers Barrows and Skinner attended a meeting of the Montana Wildlife Federation on the twenty-third, twenty-fourth and twenty-fifth at Great Falls, Montana. On January 11 Assistant to the Superintendent Joffe showed motion pictures of park scenery and wildlife to a gathering of Legionnaires and Sons of Legionnaires at Bozeman, Montana.

#### 122 - Special Field Representatives of the Mational Park Service

Dr. Adolph Murie, Wildlife Technician from the Regional Office, Omaha arrived in the park on January II to continue coyote studies.

#### 124 - Other Interior Department Officials

Earl Bailey of the Water Resources Branch of the Geological Survey, Boise, Idaho arrived in the park via the north gate on January 19 to look over several water gages. He departed on the twenty-fifth.

#### 125 - Other Governmental Officers

Ed Anderson, Engineer with the Bureau of Public Roads, departed for Denver on January 13 with the remainder of the Bureau of Public Roads park crew. Mr. Anderson is the engineer on the Mammoth beautification project.

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#### 140 - Labor Situation

All activities of contractors and operators were closed down throughout the month and no work was in progress which provided employment for other than the park's regular force.

#### 150 - Equipment and Supplies

There were nine carloads of coal received in addition to other shipments of building material, transformer and oil, lamps, doors and plumbing supplies weighing 4,819 lbs.

#### 160 - Status of Alienated Lands

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

#### 170 - Plans, Maps and Surveys

Work in the engineering office followed much the same general routine as reported for last month. Our CCC Engineer spent practically the entire month on general supervision of the Mammoth campground development with special attention to the water and sewer installation. Our Assistant Engineer completed the detail topographic map of the Canyon area and was on general drafting and routine office work the balance of the month.

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

No circulars or Nature Notes were issued during the month.

Several articles were prepared and furnished the Associated and United Presses and the Livingsten papers in connection with the death of Judson Rhoads, the opening of the new Post Office, the arousing of a bear from his winter sleep in a haystack at the Buffalo Ranch, and the skiing parties and wildlife shows on January 2 and 22. An interesting bird story was also sent out. Special articles for the mid-winter edition of the Casper Tribune-Herald were prepared and furnished that paper and a number of pictures were sent out for publicity purposes.

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

#### 210 - Road Maintenance

Road maintenance has been active only in the headquarters area and over the Gardiner-Mammoth section, consisting of snow removal, sanding icy portions of the section and removal of minor rock slides. The Mammoth-Tower Junction section was opened twice with the snow plow during the month for administrative purposes. Operation of the crushing plant at the Gardiner pit was started on the eighteenth of the month

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as a combined CCC and road maintenance item, with CCC furnishing CCC enrollee labor and supplies and the road maintenance account furnishing our general foreman to supervise the work and a mechanic to run plant proper. Material produced will be surfacing material for the Mammoth campground roads and stock-piled material for next season's maintenance work.

#### 220 - Improvements

Shops - The usual maintenance and repairing of equipment has gone forward. Besides the usual repairs made during the month 15 trucks were overhauled, the crushing and screening plant at Cardiner was repaired and placed in operation for the CCC, the electric and air sirens and air tank were installed on the new utility building, and considerable time was spent with the operation of the snow plow in opening the roads to Golden Gate, Tower Falls and the Mammoth area.

Electrical Department - In addition to the usual maintenance and repair work, fire alarm controls were installed in the new utility building, a new service circuit was installed in the Weather Bureau building in order to bill them for the electric energy used by them, and eleven of the surplus refrigerators just received were repaired and installed in various employees' residences.

Four new masterphone telephones were installed in the new post office building and new batteries were installed in 14 telephones at Mammoth.

Carpenter Shop - Various jobs during the month included the placing of wall board on ceiling and walls in one of the rooms of a government residence, putting locks, bolts and catches on various doors and windows, work commenced in building new kitchen cabinets for several of the residences, and other minor repairs.

Plumbing Department - In addition to the usual maintenance and operation during the month the completion of the rough plumbing work in one of the new CCC cottages and the water and sewer connections to the building were made.

Paint Shop - Various jobs during the month including the putting on of wall board, papering walls, painting woodwork, lettering of signs, and painting of tank and pipes on fire whistle which was installed on the new utility building.

#### 230 - New Construction

No force account on construction projects, contract road projects, or operator's improvements were active during the month.

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

#### 310 - Public Service Contractors

The general store at Mammoth remained open throughout the month to take care of local residents. No work was in progress during the month on the Mammoth Hotel and Lodge development but work is expected to be resumed again about the first of March.

On January 3 the park received a letter dated December 20, 1937 extending the medical contract of Dr. G. A. Windsor for another year until December 31, 1938.

#### 400 - Flora, Fauna and Natural Phenomena

#### 410 - Ranger, Naturalist and Guide Service

Protection Department rangers stationed in the interior of the park were engaged during the greater part of the month in winter patrols of the districts for protection purposes and for wildlife and snow observations. A number of the rangers stationed at Mammoth assisted with extensive patrols into the interior of the park.

Wildlife and range observations and the trapping and shipping of live elk were accomplished by rangers stationed at Mammoth, Gardiner, Game Ranch, Tower Falls and Soda Butte.

Office personnel devoted most of the month to the preparation of reports, study and analysis of protection problems, law enforcement and general office routine.

#### 420 - Museum Service

The duties of the naturalist department consisted of the completion of the filing and tabulation of place names, making animal observations, taking of pictures, filling of requests for information and publications, accessioning and cataloging materials, mimeographing, several field trips, and routine matters.

#### 440 - Insect Control

No insect control work was undertaken during January.

#### 460 - Birds

A waterfowl census was taken by the rangers January 26 to 29 with a total of 1,322 waterfowl being seen. Included in this total were 45 trumpeter swan, 190 Canada geese and 1,087 ducks. Results of the count were forwarded to the United States Biological Survey.

#### 470 - Animals

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Rik - A heavy migration of elk from the park was noticed on the northern game range during the first week in January and small herds moved to the lower elevations thereafter. The crusted and heavily packed snow made foraging difficult on the open areas with south exposures and, consequently, most of the game animals were widely scattered and were ranging in timbered areas. All game animals remained in good condition and distribution of elk was favorable to the overgrazed areas. Forest Ranger Olson, who is stationed at Gardiner, reported that a general check of the area lying immediately north of the park boundary was made by him at the close of January and estimated that about 2,000 elk were now on the forest in that vicinity.

The elk hunting season in Park County, Montana, adjacent to Yellowstone National Park, closed January 8 at 5:00 p.m. with a total reduction of 3,586 from the northern elk herd. This figure includes all elk that were reported at the Wanigan checking station operated by the Montana State Fish and Game Department, and in addition includes five illegal kills in the park and an estimate of 400 elk killed by hunters which did not pass through the checking station.

The high point of the hunting season occurred on January 1 and 2 when approximately 2,000 elk wre killed. It is estimated that at least 2,700 hunters were in the area during this two-day period.

Trapping of elk for the purpose of making live shipments was started on January 10. One hundred thirteen elk were trucked to Dillon, Montana between January 16 and 25. In these shipments there were 89 females and 24 males, all of which were marked with Yellowstone Park ear tags with the exception of one or two previously marked with United States Biological Survey tags. Trapping activities were continued after the Dillon shipment was made in order to fill other requests.

Buffalo - On January 6 and 12 buffalo carcasses were shipped to the Wind River Indian Agency at Ft. Washakie, Wyoming. The twelve buffalo hides were stored at Mammoth pending tanning approval from the various parties requesting them.

Feeding of the buffalo herd was started at the Buffalo Ranch on January 2 with 425 buffalo on the feed grounds. At the end of the month 510 buffalo were being fed, including 93 calves and 174 old bulls.

Bighorn Sheep - A bighorn census was made on January 14 with 99 animals being counted. The count was not very successful, as we estimate that 200 are on the northern range.

There were three bighorns, a ram, ewe and lamb, observed near the Snake River ranger station just outside the park boundary. To our knowledge this is the first time that bighorns have wintered in this vicinity.

Coyotes - These animals banded together the last week in January

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and the rutting season started somewhat earlier than usual.

#### 480 - Phenomena

#### Mammoth Hot Springs Area

Angel Spring - has continued quite active during January but the vent which was damaged in November by vandals placing a large chunk of travertine over the vent has not renewed its activity. The flow on the lower terrace to the east has continued to increase and is beautifully colored with algae. This terrace is now active from four vents.

Baby Spring - continues to behave as in the past, fluctuating in amount and time of flow throughout the month.

Blue Spring - has declined steadily during the past few months although it appears to be quite active because of overflow running over Blue Spring's basins from New Spring.

Cleopatra Spring - is still the dominant feature on the Mammoth Terraces, having an increased activity over December. The basins of the entire north face are filled with water and the coloration exceeds anything witnessed in the past four years.

Cupid Spring - has increased its average amount of flow and coloration during the month.

Hymen Spring - is still inactive.

Jupiter Terrace - is about as average for past months.

, Main Spring - has shared in the increase evidenced by a number of springs near this level and has been discharging water over the edge of the terrace to the north from three to four vents during the entire month.

Minerva Spring - has fluctuated somewhat in amount of water being discharged but by the end of January was slightly above average.

Mound Spring - maintains its position as one of the most spectacular of the springs now active and the overflow to the southeast and east continues to be beautifully colored.

Naiad and Opal Springs - are about as average for past months.

Orange Spring Mound - continues with the increased flow both to the west, south, and east, and the small vent to the northeast has been very active throughout the entire month.

Summit Basin Spring - has held the low water level established in November throughout the entire month, with temperatures so low that part of the surface is covered with ice.

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 The spring to the east of Summit Basin continues with about an average discharge of water with a great deal of it disappearing in cracks which have developed partway down the slope.

New Spring - All of those interested in the Mammoth springs were delighted with the progress made by this spring at the end of December and have continued to be impressed with the tremendous increase in amount of water being discharged and the area covered by this water. It is located in the area east of the terrace which separates it from Cupid Spring and the basins to the north, east, and south have filled with water and a tremendous amount of travertine has been deposited over this area. The trails have been entirely obliterated and will need to be reconstructed if this spring continues active by next season.

#### 490 - Miscellaneous

Horse Herd. - The horse herd of 46 animals was moved from Yancey's to the Buffalo Ranch on January 12 and were fed there with the ranch herd during the rest of the month. A total of 70 horses were fed 31 tons of hay at the Buffalo Ranch.

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

#### 510 - Increase or Decrease in Travel

Travel figures for this month show a decrease in those recorded for the same month last year. Travel for the month is shown on a form attached to the back of this report.

#### 530 - Visitors

January 18 - Rev. G. F. Grahn, St. Paul Swedish Lutheran Church, Minneapolis, Minnesota in north. Rev. Grahn is a lecturer with the Redpath Lecture Bureau and took pictures, both movies and stills. He remained throughout the rest of the month going to the Buffalo Ranch on the 19-21 and making a skiing trip to Norris and return from the 25th to the 27th.

#### 600 - Protection

#### 610 - Police Protection

Three hunters, Bernard Crane, Warren Crane and Charles Osborn from Dillon, Montana, killed five elk one-half mile inside of the park on January 8. They were apprehended and tried before the U.S. Commissioner, fined \$1.00 each and their guns confiscated.

#### 900 - Miscellaneous

Post Office - Business for the month of January showed a decrease

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over the corresponding month of 1937.

On January 17 open house was held to dedicate the new Post Office building. Practically all of the equipment was set up by that date and business was started the following day.

Authority was granted by the Post Office Department to employ Mr. William Hutton as janitor who began his duties January 1. Miss Mary Capes was made regular clerk in the post office at Mammoth effective January 1. The services of Mr. Dean Bauer were separated as temporary substitute clerk at the close of January 31.

Church Services - No Protestant services were held during the month of January but Lutheran services were held the evening of the 24th by Rev. Webster Clement of Livingston. Sunday School services were held each Sunday during the month.

Hospital and Medical - There were 35 home and 92 office calls reported during the month. Dr. Robert E. Fallis succeeded Dr. Paul Gailmard as resident physician in the park and took over his duties as park physician on January 16.

C.C.C.- During the past month the work being done by the enrollees of Camps YNP 1 and 7 has progressed in very good shape despite cold weather and snow. No time was lost during the month.

Replacements were received on the 20th of the month, bringing both companies up to a strength of 170 each. During the month all of the Army officers in these two camps were changed with the exceptions of the company commander of YNP 1.

Very good progress is being made on the campground development job for Mammoth including the water and sewer systems and parking areas. Nork is also being carried on for the completion of the comfort stations in the campground which were started last spring. Tair progress has been made on two of the employees' cottages and another month should see them practically completed.

The regular monthly meeting of the Federal Employees' Union,
Local No. 465, was held in the canteen building on January 3. New
officers for the ensuing year were elected as follows: Frank Oberhansley,
President; John Lewis, Vice-President; E. A. Allan, Guardian; Boyd
Larsen, Secretary-Treasurer. The newly elected executive committee
consists of Albert Elliott, Chairman; Joe Way, William Kearns, James
Tipolt and Lloyd Seasholtz.

Activities in the canteen were well patronized throughout the

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month and many of the residents engaged in volley ball, roller skating, square dancing, ping-pong, pool and badminton. In eight game volley ball schedule was arranged between five teams selected from among all those interested in participating in this sport. Two games each were played between the five teams on January 20 and January 27 and two games each are scheduled for the nights of February 3 and 10. By the end of the month the standing of the teams were as follows: Team No. 1, Joe Joffe, Captain--750%; Team No. 4, Howard Gregg, Captain--750%; Team No. 2, Roger Miller, Captain--500%; Team No. 3, George Miller, Captain--250%.

A dance was held in the canteen on the night of the twenty-second which was attended by some 88 visitors from the town of Cody, Ayoming who had made the trip to Mammoth via Laurel and Livingston, some 250 miles each way, to engage in winter sports and observe the wildlife. The dance was sponsored by the local Federal Employees Union.

The annual meeting and election of officers for the Yellowstone Federal Credit Union was held on January 25 in the canteen building. All officers originally selected at the formation of the organization were re-elected for the ensuing year. The meeting was followed by a Bunco party.

On January 31 Rev. G. F. Grahn of the Swedish Lutheran Church, Minneapolis, who was in the park to secure pictures for his lecture series under the Redpath lecture bureau, gave a talk with motion pictures on Africa. These pictures were taken by Rev. Grahn during an eight months expedition to Africa. The affair was well attended and greatly appreciated by the local and Gardiner people present.

Yours very truly,

Edmund B. Rogers, Superintendent. solve to the police of the pol

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### DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

#### TRAVEL REPORT

	This	1		Last Travel Year	Increa Travel	se for Year
		To Date	Year	To Date	Number	Percent
RIVATE TRANSPORTATION:						
ars first entry,	. 96	1090	150	2050	-960	-46.8
ars reentry,	. 36	874	200	1907	-1033	-54.]
otorcycles,	deriva diging		444 gaya gada na 4- na na jeuna na n	2	-2	-100.
Total motor vehicles,	132	1964	350	3959	-1995	-50.3
ersons entering via motor ehicles,	. 451	5659	1050	10787	<b>-</b> 5128	-47.
ersons entering via other rivate transportation,	. 18	18		40	-22	<b>-55.</b> (
Total persons entering via private transportation,	. 469	5677	1050	10827	<b>-</b> 5150	-47.5
HER TRANSPORTATION:						
ersons entering via stages,	٠					
ersons entering via trains,	٠					
ersons entering otherwise, .	6 autodo voluliero il litera del naval rivo di libra	matelli - duclarida (restilata el lette en richer adde en accessor de la reditare	arriis sidd o'i ordur middlior maadar adad aan biddlio aan badd aan biddlio aan badd ah aan biddlio aan badd a			
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RAND TOTAL ALL VISITORS,	469	5677	1050	10827	-5150	-47.5
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			Ye	ar Year	Number	Percen

lampers in public camps during month, . . . . . .

### DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

#### TRAVEL REPORT

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This Last Increase Year Year Number   Percent	r de como en de como d

#### DEPARTMENT OF THE INTERIOR

#### NATIONAL PARK SERVICE

### REPORT OF PARK REVENUES

Yellowstone  National Park for the Month of	January, 19	38
	This Year	Last Year
Park revenue on hand beginning of month,		\$19,701.96
Total,	49,434.66	19,701.96
On hand close of month,		
Park revenues received this year to date,		938.92
Park revenues received last year to date,	117.	661.55 277.37
Per cent of increase,	39	•4

#### DEPARTMENT OF THE INTERIOR

### NATIONAL PARK SERVICE

### REPORT OF PARK REVENUES

	National Park for the Month of
This Last Year Year	
	rk revenue on hand beginning of month,
21.09,01	Total,
	mitted,
## # 1 P.	rk revenues received this year to date,
77.77	rk revenues received last year to date,
	Per cent of increase,

#### UNITED STATES

#### DEPARTMENT OF THE INTERIOR

#### NATIONAL PARK SERVICE

### STATUS OF PERSONNEL

Yellowstone National Park for the Month of January, 1938

		Thi	s Month_	Thi	s Mor	nth Las	t Year
			Non-Appointed	Appoi	nted	Non-Ap	pointed
Number of employees beginning of month	Reg.	86 20	8	*	89	Reg.	19
Number of additions.	Reg.	1	6		0	44	14
Total		107	14		89	19	33
Number of separations	Reg.	2	5	Reg.	1	rî	22
Number of employees close of month	Reg.	85 20	9	Reg.	77 10	11	11
Sumber of promotions during month	0			Reg.	158	-13/56	
gregate amount of annual leave taken	Reg.	11	-15/16 -1/2	FCW Reg.	14 89 58	-1/2	
Aggregate amount of sick leave taken	CCC	38	until Anatoministra malamat meli santi senti senti sata sata sata sata sata	ECW	1		
Aggregate amount of leave without pay		0		(	0		

Includes 78 regular, 10 ECW and 1 PW employees.

#### UNITED STATES

## DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

### STATUS OF PERSONNEL

Wational Park for the Month of

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The contraction of the contracti		Non-Appointed	Appointed	Non-App	ointed
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## UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

	This		This Month Last	Last Travel Year		ease for el Year
	106,600	To Date 693,400		To Date		Percen
	200,000	000, 200	37,100	622,000	71,400	11.4
Current generated,	681	62,340	983	59,273	3,067	5.1
Sold to park operators, .						
Sold Fridxtexothers, Post Off. & West; Furnished to other Government	h Bu. 958	958	-			
Sold Sold Post Off. & West	h Bu. 958		96,117	562,727	67,375	11.9
Sold Structerothers,	ice 106,600	630,102 693,400	97,100	562,727 622,000		11.9
For Off. & Leat; Furnished to other Government agencies,	104,961 ice 106,600	630,102 693,400	97,100	622,000	71,400	11.4

\* Indicated by K. W. H.

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#### DEPARTMENT OF THE INTERIOR

#### NATIONAL PARK SERVICE

#### REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

The state of the s	This Month	This Month Last Year	Increase	Percent Increase
LOCAL BUSINESS				
Miles of circuit maintained,		600 253	4. 26	.6 10.4
Receipts from measured service calls	9544 50			
LONG DISTANCE BUSINESS	in was that 960s Pallina decin			
No. Outbound calls,				
Peak load in calls per day,				
TELEGRAPH BUSINESS	New Will Pri Ministrative in the Market America			
Messages via Western Union,				
Receipts from telegraph business, No. of money transfer messages,				
TOTAL RECEIFTS TELEPHONE & TELEGRAPH DEPTS	5-			

### GERERTHENT OF THE INTERIOR

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NUMBER OF TELEFORMS	A PULLING	SOUNTABE RE		
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10-313		DEPARTMENT OF THE INTERIOR  NATIONAL PARK SERVICE  Yellowst	Yellowstone Mational Park	
n n o t	January 31, 1938	Monthly Report of Minor Roads and Trails Projects Total Mileage	(Area) ge for Area:	j.
As of	(Date)	Minor Roads Trails	ads	Miles
Proj.	Description of Project	Type of Work age of % Com- Appropria- Amount Amount Proj. plete tion Symbol Allotted Expended	Remarks	
Į.				
		No Minor Roads & Trails Projects active.		



# U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU MONTHLY METEOROLOGICAL SUMMARY

ę				MO	NTE	ILY	MET	EOROL	OGICA	L SU	JMM.	ARY			
1.7	rion	YELLO	WSTO:	NE P	ARK,	WYO	•			МО	NTH_	JAN	UARY,	1938	w
		TEMPERAT	URE, °F.			TVE HU Percenta		PRECIP	ITATION		WIND			EATHER	
£	Maximum	Minimum	Меап	Normal mean	A. M.*	Local noon	P. M.*	Total (inches)	Snowfall (inches), p. m. to p. m.* (unmelted)	Prevailing direction	Highest velocity	Direction	Percentage of possible sunshine	Character of day	Biver stage (feet)
n	29.5	5 12 4 6 10 13 10 9 13 22 3 2 18 27 31 27 24 21 15 3 19 22 9 7 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	28 20.5	19	73	54 49 62 53 65 65 65 65 65 65 65 65 65 65	56 67 73 40 65 56 64 80 76 87 68 78 68 78 65 65 65 65 78 78 78 78 78 78 78 78 78 78 78 78 78	0 0 0 0 0 T 123 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	00000 TT 112.25.22 0.1	SSW SSW SS SSW SSW SS SSW SS SSW SS SSW SS SS	14 13 14 19 12 19 12 12 12 12 12 12 12 12 12 12 12 12 12	SEE	82 43 100 100 100 100 100 49 80 20 52 15 106 42 22 20 0 21 33 162 163 29 41 29	Clear Cloudy Clear Clear Clear Cloudy	14 14 15 16 18 19 21 22 23 24 25 26 27 28 29 30
		a. m. and				_	_		trace of preci	_	a Sur	arise to su		Total. 'Mor	nthly.
					ESSUR			SUMMA				WI			
ghes	y mean	0.83 0.70	50 . 2	<b>5</b>	- 9A				Prevailing 6 Highest win	lirection ad veloc	ity this	S, month s	average b	ourly velocity	7.8
west	2	9:70	, da	te	10				<b>34</b> m	iles frou	٦8	, oi	117	, in	1923
									Number of	days ele	ear <b>n</b> -	WEA'	r HEK y cloudy_	2, cloudy.	22, with
west		42 -19	, da	te	1	30	i		measura	ble prec	ipitation	ı (0.01 i	nch, or m	ore)	i-7
rerag	e daily	month since departure	19	04	nighest	47	lowest_	-54	Hail					A—DATES C	).E.
rerag	e daily	departure departure	since Ja	nuary 1	1,+2	. 3			Halos, solar	11,	13,2	4,30	halos, lu	nar	0
ptal c	legree d	ays	PRECI	PITAT	ION	80			Frost, light		0	heavy	fog, dens	nar e, killing†	0
reate	st amou	nt in 24 ho	urs	2		., date_	99-9	<b>4</b>	Sleet					, Killing (	

onthly mean SG 228	Prevailing direction, average hourly velocity-7.8  Highest wind velocity this month since1.604			
ghest	34 miles from, on 17, in 1923			
ghest	Number of days clear_7, partly cloudy_2, cloudy_22, with measurable precipitation (0.01 inch, or more)			
rerage daily departure since January 1, +2-3- tul degree daysPRECIPITATION	Halos, solar 11,13,24,39 halos, lunar Fog, light fog, dense fog, dense killing the frost, light heavy killing the formula for			
reatest amount in 24 hours	SleetO			
snow on ground on 15th 2 2 and at end of month 5.5	Duststorms †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—				

1871	83	95	07-14.8	19. 22. 2	22.8 0.11
1872	84	96	08-20.3	20-22-7	13.7 0.83
1873	85	97	09.21.2	21 20, 5	19.2 1.19
1874	86	98	10.15.8	22-12-5	26.2 0.61
1875	87	99	11.20,8	23-20.8	21.7 1.00
1876	88	00	12.20.2	24-16-3-	17.0 1.31
1877	89	01	13- <b>13</b> 5	25-20-5	372.2 0.83
1878	90	02	14.24.6	26_30,0	20.5 1.41
1879	91	03	15- <b>18.6</b>	27-15-2	39_
1880	92	04-18.6	16 - 6.7	28- <b>22</b> -2	40
1881	93	05.3.9.9	17-11.4	29-10-7	41
1882	94	06 22.3	18.16.2	30_ 4.8 0.88	42





