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(May 1929)
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone NATIONAL PARK

✓	BOGGS	
✓	EMMETT	<i>mc</i>
	JOFFE	<i>8</i>
	HUNDLEY	
	GERHARDT	
	LEED	
✓	LANQUE	
✓	WILSON	
	BAUER	<i>W</i>
	CROWE	
	SMITH	
	ELLIOT	<i>W</i>
	MILLER	
	TONINI	
	ROBINSON	

FILE NO.

MONTHLY REPORT

February, 1937

IMPORTANT

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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

March 4, 1937

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

ATTENTION: Branch of Operations (Assistant Director)

Dear Mr. Director:

The following is the report of activities in Yellowstone National Park during the month of February, 1937:

000 - General

The unpleasant weather of January continued throughout most of February, although during the last week the temperature began to moderate and much of the snow had disappeared. On three days of the month the thermometer registered below zero, making a total of 33 days for the winter on which the zero mark or lower was reached. On four days during the month temperatures above 32 degrees were recorded, three of which were during the last week. The total snowfall for the month amounted to 18.6 inches while the total seasonal snowfall since last August amounted to 64.4 inches, which is 3.4 inches above normal to the close of February. There was only one clear day during the month, eight were partly cloudy and nineteen were cloudy.

The continued cold and stormy weather had a bad effect on the movement of the northern elk herd and interfered considerably with the program for reducing this herd by four thousand animals. Because there were very few thaws followed by freezing temperatures which accounts for the crusting of the snow, the elk were able to paw for their forage and did not move down into the hunting territory. Therefore, the hunters were able to take less than 250 elk to the close of the hunting season March 1. Because the hunters were unable to make their kills the park administration was criticized by some Gardiner meat hunters and protests were made to members of Congress, as well as the Attorney General for Montana, against trapping and killing in the park. The criticism did not record the feelings of the reliable citizens of Gardiner but was merely the reaction of some disgruntled hunters who were unsuccessful in obtaining their elk meat. Efforts were made to drive some elk out of the park to assist the hunters in making their kills but the experiment proved unsuccessful. Several shipments of live animals and the killing of elk in the park by rangers, the meat of which was distributed to Indian and relief agencies, assisted in

the reduction program but it is not expected that the total reduction for this season will amount to more than a thousand animals as against four thousand, the number originally set to be taken from the northern herd.

On February 25 word was received of the resignation of three members of the Montana State Fish and Game Commission: Ray G. Lowe, Glendive, chairman; William Keil, Billings, and J. J. Harper, Anaconda, and the dismissal of the State Game Warden Kenneth F. MacDonald and Elmer G. Phillips, Superintendent of Fisheries. B. L. Price, Laurel; Harry Lay, Lewistown and Nick Dondinger, Anaconda were appointed by Governor Roy E. Ayres to succeed the three commissioners while James Weaver of Lewistown was appointed to succeed MacDonald. Mr. Price, who was chosen as chairman of the new Commission, formerly served on the Montana State Fish and Game Commission and is well acquainted with the park problems. The two remaining commissioners are P. G. Cutensohn, Whitefish and A. C. Baumgartner, Great Falls. We regretted particularly the removal of State Game Warden MacDonald, due to the fact that we have received the finest possible cooperation from him throughout his administration. Mr. MacDonald was an extremely efficient and capable State Game Warden and was thoroughly familiar with all problems affecting the Park's wildlife, being particularly open-minded in all discussions affecting the State and the Park.

Interest in the winter activities in the canteen building continued throughout the month and practically each evening a number of persons were present to participate in dancing, volley ball, roller skating, pool and ping-pong. Regularly scheduled volley ball games between various departments were held weekly while interest was renewed in old-time dances. The purchase of a turntable, loud speaker and microphone with funds from the local Federal Employees' Union aided materially in continuing the interest in dancing while the music furnished by this new equipment was also enjoyed by those who engaged in roller skating. Skiing parties were held over each week-end and a number of persons participated. The ice skating rink in front of the museum received little usage due to its size and unfavorable weather conditions at night when skating was possible.

Several deaths of park friends were recorded during the month. The Mrs. Earnest Leavitt, wife of Superintendent Leavitt of Lassen National Park, who was known to many of the Yellowstone personnel, was killed by gas explosion in her residence on February 6, while Mr. Leavitt was seriously injured with burned hands and feet. The Leavitts are old timers in the National Park Service family.

Frank B. Anderson, contractor who constructed the new apartment house building at Mammoth, died at his home in Denver after an illness of several months.

On February 18 word was received that the passing of Mrs. Arthur L. Rule at her home in Mason City, Iowa. Mr. and Mrs. Rule are long time Park Service friends and each summer for ten or twelve years the

the reduction program but it is not expected that the total reduction for this season will amount to more than a thousand additional sheep. For four thousand, the number originally set to be taken from the program.

On February 25 word was received of the resignation of three members of the Montana State Fish and Game Commission: W. C. Jones, Glendive, chairman; Willie Kell, Billings, and J. J. Carter, Great Falls. The resignation of the State Game Warden Kenneth T. Macdonald and Elmer G. Phillips, Superintendent of Fisheries, Great Falls, were also announced by Harry Jay, Lewistown and Nick Langinger, Anaconda were announced by Governor Roy L. Yates to succeed the three commissioners with James Weaver of Lewistown was appointed to succeed Macdonald. Mr. Jones was chosen as chairman of the new Commission, formerly known as the Montana State Fish and Game Commission and is well acquainted with the park problems. The two remaining commissioners are T. C. Galloway, Billings and J. C. Samuelsen, Great Falls. He resigned voluntarily the removal of State Game Warden Macdonald, due to the fact that he have received the finest possible cooperation from his department and administration. Mr. Macdonald was an extremely efficient and capable State Game Warden and was thoroughly familiar with all problems affecting the Park's Wildlife, and particularly operated in all discussions affecting the state and the Park.

Interest in the winter activities in the eastern building continued throughout the month and practically every evening a number of persons were present to participate in dancing, roller skating, and other amusements. The program was held weekly while interest was maintained in old-time dances. The presence of a number of local couples and persons with funds from the local tobacco shop and other sources aided materially in continuing the interest in dancing with the which furnished by this new equipment was also enjoyed by those who engaged in roller skating. Skating parties were held over the week-end and a number of persons participated. The ice skating rink is built of the present received little use due to the late and stormy weather conditions at night when skating was possible.

Several deaths of Park friends were reported during the month. The Mrs. Ernest Levitt, wife of Superintendent Levitt of Jackson National Park, who was known to many of the Yellowstone personnel, was killed by gas explosion in her residence on February 1, while Mr. Levitt was seriously injured with burns and frost. The Levitts are old timers in the National Park Service family.

Frank D. Hanson, contractor who constructed the new building hours building at Mammoth, died at his home in Denver after an illness of several months.

On February 18 word was received that the passing of Mrs. L. Rife at her home in Mason City, Iowa, Mr. and Mrs. Rife are long time Park Service friends and each summer for ten or twelve years the

couple spent from one to two months in the Yellowstone. They were well known to Park Service employees in a number of the national parks but their particular love seemed to be centered in the Yellowstone. Mrs. Rule always accompanied her husband on her park trips and both were particularly enthusiastic about the taking of motion pictures of various park features.

On February 21 Joe Stermitz, brother-in-law of Master Plumber William Wiggins, died at the Lott Hospital in Livingston after a prolonged illness. Mr. Stermitz resided on a small ranch in the Cinnabar Basin and each summer supplied vegetables to some of the Mammoth residents.

020 - General Weather Conditions

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

021 - In the Park

Weather conditions over the entire park were comparable to those recorded by the Weather Bureau station at park headquarters. The average mean temperature was somewhat below normal and precipitation and snowfall above normal. There was sufficient snowfall in some sections of the park to bring the total snow depth for the winter almost up to normal, overcoming the accrued deficiency recorded through January.

All highways through the park have been closed by snow except that section from Mammoth to Tower Junction, which has been kept open to facilitate the elk reduction program.

The following tabulation indicates the comparative snow depths at the end of the month for various points throughout the park, over a six-year period:

	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>
Buffalo Ranch	24	24	33	11	27	20
Bechler River	64	79	43	42	87	70
Cooke	30	41	31	20	36	40
Gallatin	27	38	20	25	36	30
Lake	32	38	20	20	38	28
Aster Creek	68	86	60	54	90	62
Mammoth	12	12		27	20	8
Snake River	43	70	41	38	76	58
Soda Butte	14	14	4	12	30	21
Tower Falls	23	24	4	18	30	21
West Yellowstone	38	43	23	31	55	50

couple went from one to two months in the following year. The
 well known to Park Service employees in a number of the national parks
 but their particular love seemed to be centered in the following.
 Mrs. Hole always accompanied her husband on her own trips and both
 were particularly enthusiastic about the taking of motion pictures of
 various park features.

On January 21 Joe Stewart, brother-in-law of Lester Fisher
 William Higgins, died at the hospital in Denver after a pro-
 longed illness. Mr. Stewart resided on a small ranch in the vicinity
 of Basin and each summer supplied vegetables to some of the
 residents.

0.0 - General Weather Conditions

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

0.1 - In the Park

Weather conditions over the entire park were compared to those
 recorded by the weather bureau station at Park Headquarters. The average
 mean temperature was somewhat below normal and precipitation and snow-
 fall above normal. There was sufficient snowfall in some sections of
 the park to bring the total snow depth for the winter about up to
 normal, exceeding the record of 1934 through 1937.

All highways through the park have been closed for snow except that
 section from Tower to Lower Junction, which has been kept open to
 facilitate the elk reduction program.

The following tabulation indicates the comparative snow depths at
 the end of the month for various points throughout the park, over a
 six-year period:

	1937	1938	1939	1940	1941	1942
Buffalo Ranch	24	11	38	24	24	24
Becker River	24	42	42	78	24	24
Goose	30	30	31	41	30	40
Gallatin	17	25	30	38	17	30
Lake	2	20	20	38	2	28
Water Creek	26	34	20	20	26	26
Mammoth	12	27	12	12	12	2
Snake River	43	38	41	43	43	28
Soda Butte	14	12	4	14	14	23
Tower Falls	25	18	4	24	25	21
West Yellowstone	28	31	22	42	28	24

022 - Approaches to the Park

The approach road from Livingston, Montana to the north entrance has been kept open to travel during the entire month with the exception of short intervals during severe storm periods when highway department snow plows were unable to keep short stretches free of drifting snow.

The approach from Bozeman, Montana to the west entrance has been kept open to travel with considerable difficulty by Montana State Highway Department crews.

All other approach roads to the park have been closed by snow throughout the entire month.

023 - In Nearby States

Weather conditions in nearby states have been comparable to those recorded in the park and some difficulty has been experienced in keeping the highways over mountain passes free of snow and open to travel.

100 - Administration

110 - Status of Work

Superintendent Rogers was in the park throughout the month, most of his time being consumed in activities at park headquarters.

Several employees were on leave for various periods due to sickness, there having been an epidemic of flu throughout a large part of the month.

The permanent transfer of Disbursing Officer Francis W. Watson to Washington was approved effective at the end of January and the position as agent-cashier was created to take over the disbursing officer's duties, Fred G. Bussey being appointed to this position effective February 9.

Park Engineer C. A. Lord underwent a major operation at the Park Hospital in Livingston on February 3 and was absent from the park throughout the month.

February 4 was the closing date for the filing of applications for examinations for the positions of carpenter, plumber, incinerator operator, stationary gasoline engine operator, road foreman, power blade grader operator, and motor truck driver, announced by the Thirteenth Civil Service District for establishing registers for use in filling park positions. A new register for the position of warehouseman was furnished the local board, resulting from an examination held last fall.

Temporary Clerk Marjorie Kantor, selected from the junior stenographer register of the Thirteenth Civil Service District, started to work at noon on February 8.

022 - Approaches to the Park

The approach road from Livingston, located to the north of the park, has been kept open to travel during the entire month with the exception of short intervals during severe storm periods when highway department snow plows were unable to keep about a passable free of drifting snow.

The approach from Bonanza, located to the east entrance has been kept open to travel with considerable difficulty by winter storm plows. The approach from the west entrance has been closed.

All other approach roads to the park have been closed at some time throughout the entire month.

023 - In Nearby States

Weather conditions in nearby states have been comparable to those recorded in the park and some difficulty has been experienced in keeping the highways over mountain passes free of snow and open to travel.

100 - Administration

110 - Status of Park

Superintendent Rogers was in the park throughout the month, most of his time being consumed in activities at park headquarters.

Several employees were on leave for various periods during the month. There has been an epidemic of flu throughout a large part of the month.

The permanent transfer of Dispensing Officer Francis A. ... Washington was approved effective at the end of January and the position as agent-cashier was created to take over the dispensing officer's duties, Fred G. Brassey being appointed to this position effective February 9.

Park Engineer G. A. Lord underwent a major operation at the Park Hospital in Livingston on February 3 and was absent from the park throughout the month.

February 4 was the closing date for the filing of applications for examinations for the positions of carpenter, glazier, instructor operator, stationary gasoline engine operator, road foreman, power blade tender, operator, and stor truck driver, announced by the Thirteenth Civil Service District for establishing registers for use in filling park positions. A new register for the position of watchman was furnished the local board, resulting from an examination held last fall.

Temporary Clerk Herbert Linton, selected from the Junior stenographer register of the Thirteenth Civil Service District, started to work at noon on February 8.

Clerk Verna Roe departed on February 22 for a trip for several weeks to Hawaii. She is being accompanied by Helen Mahoney, a clerk in the Mammoth post office.

On February 23 the Civil Service Commission announced an examination for the position of park ranger, the closing date for the filing of applications being March 26 in the western states. The appointment of Clerk Loustalet J. Quinn to the permanent position of clerk in the Chief Ranger's office, vice Albert R. Novak, became effective February 27.

120 - Inspections by:

121 - Superintendent

Superintendent Rogers spent most of the month at the park headquarters at Mammoth and made trips into the interior and outside the park during the month as follows:

February 15 - To Livingston with Messrs. Emmert and Joffe to attend Rotary and extend an invitation to the Livingston Rotary Club members to hold their next meeting at Mammoth on February 22.

February 22 - To Slough Creek mail-box and return with Acting Chief Ranger LaNoue.

123 - National Park Service Officers

Charles L. Gable, Chief of the Park Operators Division, Washington, arrived in the park on February 28; departed same date.

140 - Labor Situation

Very few projects were under way during the month requiring the employment of labor. Work continued on the new Mammoth layout and a number of employees were engaged on this project throughout the month. A few men were used on the Peter Kiewit contract in the Lamar Canyon while a few men were engaged for part of the month on the new utility building. The work on this latter project has been very disappointing and some of the men have received no pay for their work in connection with this project since early January.

150 - Equipment and Supplies

There were seven carloads of coal, one carload of fuel oil and one carload of fir lumber in addition to other large shipments of chlorine, refrigerators, window glass, lubricating oil, galvanized and conduit pipe weighing 27,041 lbs.

160 - Status of Alienated Lands

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

Chief James Lee departed on February 23 for a trip to Hawaii. He is being accompanied by Helen Johnson, a clerk in the Honolulu post office.

On February 23 the Civil Service Commission announced an examination for the position of park ranger, the closing date for the filing of applications being March 28 in the western states. The appointment of Chief Forester J. King to the permanent position of chief of the Civil Ranger's office, vice Albert R. Howell, became effective February 27.

130 - Inspections by:

131 - Superintendent

Superintendent Rogers spent most of the month at the park headquarters at Mammoth and made trips into the interior and visited the park during the month as follows:

February 15 - To Livingston with Messrs. Stewart and Joffe to inspect Rotary and extend an invitation to the Livingston Rotary Club members to hold their next meeting at Mammoth on February 22.

February 22 - To Mough Creek rail-box and return with mail to Ranger James.

132 - National Park Service Officers

Charles J. Cable, Chief of the Park Operators Division, Washington, arrived in the park on February 28; departed same date.

140 - Labor Situation

Very few projects were under way during the month resulting in employment of labor. Work continued on the new Mammoth Lodge and a number of employees were engaged on this project throughout the month. A few men were used on the Peter Millwright contract in the Lamar Canyon while a few men were engaged for part of the month on the new utility building. The work on this latter project has been very disappointing and some of the men have received no pay for their work in connection with this project since early January.

150 - Equipment and Supplies

There were seven cartloads of coal, one cartload of fuel oil and one cartload of fir lumber in addition to other large shipments of clothing, refrigerators, window glass, lubricating oil, kerosene and conduit pipe weighing 27,041 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 under this heading was principally routine, consisting of the drawing up of last season's outside work, plotting of surveys of possible campsites and assisting with the estimates.

180 - Circulars, Placards, Publicity Bulletins, Etc.

Circulars Nos. 3 and 4 were issued during the month and copies are attached. The January-February issue of Nature Notes was prepared and distributed on February 13 to the Park mailing list. Articles were prepared by Messrs. Joffe and Bauer for the special edition of the Casper-Wyoming Tribune Herald. A considerable number of pictures were sent out for use in illustrating articles for general publicity purposes. The mimeographing of the 1936 annual report was completed on February 10 and copies were distributed to the Washington Office, the superintendents of the larger national parks and to several collectors of park literature.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

Road maintenance has been active only on the section between Mammoth and Gardiner and the roadways at Mammoth.

220 - Improvements

Shops - Seven trucks were overhauled and stored for the winter in addition to the overhauling of one grader, the electric welding machine and the Snogo snowplow which broke down several times during the month.

Electrical Department - In addition to the usual maintenance and repair work during the month, metal battery boxes were installed on all phones in the apartment house, which work was incomplete on account of a change in the battery connections, and telephone service was extended to the new utility building at Mammoth. Short wave radio communication tests were made with Yosemite National Park on February 9, 23 and 24 with very satisfactory results at both ends.

Carpenter Shop - Besides the minor repairs made during the month, partitions for store rooms were built in the basement of the apartment house, clothes lines were installed in the basement of the apartment house, and several elk crates were made for the shipment of elk.

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

Paint Shop - Signs were made in addition to minor repairs during the month. A new sign order was prepared also for this season.

170 - News and Letters

work under this heading was principally routine, consisting of the drawing up of last season's outside work, plotting of surveys and possible campaigns and relating with the editor.

180 - Circulars, Newsletters, Publicity Bulletins, Etc.

Circulars Nos. 3 and 4 were issued during the month and contained attached. The January-February issue of Nature Notes was prepared and distributed on February 13 to the Park mail list. Articles were prepared by Messrs. Joffe and Baker for the special edition of the Gopher-Trapping Tribune Herald. A considerable number of pictures were sent out for use in illustrating articles for general publicity purposes. The mimeographing of the 1936 annual report was completed on February 10 and copies were distributed to the Washington Office, the superintendents of the larger national parks and to several collectors of bird literature.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

Road maintenance has been active only on the section between Lamoine and Gardner and the roadway at Lamoine.

220 - Improvements

Shops - Seven trucks were overhauled and stored for the winter in addition to the overhauling of one trailer, the electric welding machine and the Snowo snowplow which broke down several times during the month.

Electrical Department - In addition to the usual maintenance and repair work during the month, metal battery boxes were installed on all phones in the apartment house, which work was incomplete on account of a change in the battery connections, and telephone service was extended to the new utility building at Lamoine. Short wave radio communication tests were made with Yosemite National Park on February 9, 22 and 24 with very satisfactory results at both ends.

Carpenter Shop - Besides the minor repairs made during the month, partitions for store rooms were built in the basement of the apartment house, clothes lines were installed in the basement of the apartment house, and several elk crates were made for the shipment of elk.

Plumbing Department - The usual maintenance and repairs were carried on during the month.

Paint Shop - Signs were made in addition to minor repairs during the month. A new sign order was prepared also for this season.

230 - New Construction

Work on project No. F.P. 347, Utility Building, Mammoth, is still at a standstill, there being no progress made on this building during the month.

Contract Construction

No work at all was done on the Post Office building at Mammoth.

Due to unsatisfactory weather the progress on the Lamar Canyon road was very slow.

Mammoth Development Plan

The Yellowstone Park Company continued inside finishing work on the dining room at Mammoth and worked on the tunnel connecting the power house to the hotel. The inside work on the storehouse at Gardiner is near completion.

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. Work continued on the new Mammoth hotel-lodge project and considerable work was accomplished throughout the month. Most of the work was confined to the interior of the new lunch room.

Mr. W. M. Nichols, President of the Yellowstone Park Company, arrived in the park on February 28 to inspect the operations under way at the new Mammoth layout and departed the same day.

400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

Protection Department work during this month has consisted mainly of activities connected with the reduction and management of the northern elk herd. Practically the entire time of all rangers assigned to Mammoth and those stationed within the winter elk range has been devoted to trapping, shipping, and slaughtering of elk and to game range observations and game counts. Considerable time has been devoted to attempts to drive elk out of the park and into open hunting territory, but such efforts were practically fruitless.

Other activities of this department have been the feeding of buffalo at the Buffalo Ranch and feeding of the park horse herd. Regular winter patrols have been made in outlying sections of the park and special patrols to remote sections of the park, for game study purposes and protection

300 - New Construction

Work on project No. T. 1. 247, Utility building, is still at a standstill, there being no progress made on this building during the month.

Contract Construction

No work at all was done on the Post Office building at Mammoth. Due to unsatisfactory weather the progress of the road project road was very slow.

Mammoth Development Plan

The Yellowstone Park Company continuing their finishing work on the dining room at Mammoth and worked on the tunnel connecting the power house to the hotel. The inside work on the storehouse at Mammoth is near completion.

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. Work continued on the new Mammoth hotel-lunch project and considerable work was accomplished throughout the month. Most of the work was confined to the interior of the new lunch room.

Mr. W. M. Nichols, president of the Yellowstone Park Company, arrived in the park on February 23 to inspect the operations under way at the new Mammoth layout and departed the same day.

400 - Flora, Fauna and Natural Resources

410 - Ranger, Naturalist and Guide Service

Protection Department work during this month has consisted mainly of activities connected with the protection and management of the northern elk herd. Practically the entire time of all rangers assigned to Mammoth and the area attached within the winter elk range has been devoted to trapping, shipping, and slaughtering of elk and to game reserve operations and counts. Considerable time has been devoted to the protective elk out of the park and into open hunting territory, but such efforts were practically fruitless.

Other activities of this department have been the feeding of buffalo at the Buffalo Ranch and feeding of the park horse herd. Regular winter patrols have been made in outlying sections of the park and special patrols to remote sections of the park, for game study purposes and protection

work, have been made by rangers stationed in the interior of the park.

The duties of the Naturalist Department consisted of several field trips, usual routine of correspondence and supervision, plans for re-modelling exhibits at Norris and Mammoth, sorting and labelling of material in the geology storeroom, and preparations of illustrations for the Superintendent's annual report and the January-February issue of Nature Notes.

420 - Museum Service

The exhibit from the Norris Museum which gives the geological history in four stages has been re-worked by the Naturalist Department and labels have been prepared so that this case is ready to be re-installed in the spring. Plans are being made for completing the geology case at Mammoth as soon as the materials can be secured.

450 - Animal Disease Control

As many of the slaughtered elk as possible were autopsied and most of the information obtained was negative in that very few parasites and diseases were found. Dr. Howard Welsh of the Montana Veterinary Research Laboratory also autopsied several elk during the slaughter and the information he obtained was similar to that found by park rangers.

About 100 elk stomachs were weighed during the slaughter and seven of these are now being dried in the wildlife laboratory to obtain the moisture content. We are trying to arrive at the proper forage acre factor for elk by comparing stomach weights to those of domestic cattle, and also by comparison of dried grass weights taken from the study plots on the northern game range.

A number of skulls were prepared in the wildlife laboratory by CCC enrollees.

470 - Animals

The month was characterized by stormy weather and very little movement of game occurred until the last week. By the end of the month much of the winter range was covered by crusted snow and big game animals were forced to graze on bare ridges and open southern exposures. All game animals were in good condition at the end of the month.

The hunting season remained open in Park County north of Yellowstone until March 1, and the biggest kill of the season was made during the last week of the month. The elk total reduction from the northern herd as compared with last year is as follows:

work, have been made by various projects in the laboratory of the U.S. Army.

The duties of the Wildlife Laboratory consist of receiving, processing, and distributing to various agencies, including the U.S. Fish and Wildlife Service, the U.S. Forest Service, and the U.S. Department of the Interior, the specimens of birds, mammals, and reptiles which are collected by the various agencies and which are sent to the laboratory for the purpose of determining their identity, sex, age, and other characteristics.

430 - Wildlife Service

The exhibit from the Wildlife Service which gives the following information in four columns has been received by the Wildlife Laboratory and labels have been prepared so that this case is ready to be re-installed in the exhibit. Plans are being made to install the exhibit case at Washington as soon as the materials can be located.

450 - Animal Disease Control

A copy of the report which was prepared by the Wildlife Laboratory of the information obtained was prepared in that very few parasites and diseases were found. Dr. David W. Brown, of the Wildlife Laboratory, also reported several parasites during the season and the information he obtained was similar to that found by other workers.

About 100 elk specimens were weighed during the season and many of these are now being held in the Wildlife Laboratory to obtain the moisture content. It is being tried to determine the moisture content for elk by comparing stomach contents with the moisture content and also by comparison of dried grass with the same from the study done on the northern elk range.

A number of skulls were prepared in the Wildlife Laboratory of the U.S. Army.

470 - Antelope

The month was characterized by steady weather and very little movement of game occurred until the last week. By the end of the month the winter range was covered by snow and the game animals were forced to feed on bare ridges and low vegetation. All game animals were in good condition at the end of the month.

The hunting season remained open in the Grand north of Yellowstone until March 1, and the best kill of the season was made during the last week of the month. The elk total reduction from the previous year as compared with last year is as follows:

	<u>1937</u>	<u>1936</u>
Hunting kills	216	2258
Dead from natural & accidental causes	17	70
Illegal kill	1	0
Slaughtered	338	6
Live shipments	<u>133</u>	<u>451</u>
Total reduction -	705	2785

The elk slaughtering was done at the Slough Creek mail-box, Yancey and Mammoth traps, while the live shipments were made from the Game Ranch, Gardiner and Mammoth traps. The slaughtered elk were sent to the Crow Indian Reservation, a relief organization in Denver, Colorado and to the Montana Relief Administration. Live shipments were made to the Anaconda Sportsmen's Association in Montana, to the State of Idaho, and two to Minnesota.

Buffalo - Between 400 and 425 of these animals were fed at the Buffalo Ranch during the month. In the Pelican Creek valley 190 were counted and 10 were in the Upper Lamar drainage.

Deer - A number of deer were attacked by coyotes during the latter part of the month. Five fresh deer kills were seen along the Yellowstone River between Gardiner and Blacktail Creek.

Sheep - One yearling Bighorn ram was killed by coyotes on Junction Butte but otherwise the various bands of sheep appeared to be in good condition.

480 - Phenomena

Mammoth Hot Springs

Angel Spring - At present there are three vents active on the upper terraces. The one to the west which has maintained a strong flow since last summer continues to deposit travertine at a considerable rate and on the lower part of the terrace the spring to the north has almost doubled in size during the past month.

Baby Spring - Vacillating as in the past, this spring went entirely dry during the month but at the end of the month is flowing with a good sized volume of water.

Blue Spring - continues about the same as last month.

Cleopatra Spring - About February 17 water began to flow from this spring and at the end of the month we find a stream steadily increasing, filling the old basins and flowing over the front of this terrace. Temperature - 158.5° F.

Cupid Spring - Activity continues from the vents to the north and west at the top of this terrace with the flow slightly less than in January.

100	100	
878	878	Hunting kills
10	10	Dead from natural & accidental causes
0	1	Illegal kills
8	268	Stray animals
10	108	Live animals
200	200	Total population -

The elk slaughtering was done at the Grand Creek mill-box, Tracy, and Mammoth traps, while the live animals were taken from the Grand Creek and Mammoth traps. The dead and live animals were sent to the Grand Indian Reservation, a relief organization in Denver, Colorado and to the Montana Police Administration. Live animals were sent to the Grand Indian Reservation in Montana, to the State of Idaho, and two to Minnesota.

Buffalo - Between 400 and 450 of these animals were fed at the Grand Creek Ranch during the month. In the Pelican Creek valley 120 were counted and 10 were in the Upper Lamar drainage.

Deer - A number of deer were attacked by coyotes during the latter part of the month. Five fresh deer kills were seen along the Yellowstone River between Gardiner and Blacktail Creek.

Sheep - One yearling Bighorn ram was killed by coyotes on Junction Butte but otherwise the various bands of sheep appeared to be in good condition.

480 - Phenomena

Mammoth Hot Springs

Geopline Spring - At present there are three waterfalls on the upper terrace. The one to the west which has contained a steady flow since last winter continues to deposit travertine at a considerable rate and on the lower part of the terrace the spring to the north has almost doubled in size during the past month.

Baby Spring - Vacillating as in the past, this spring went entirely dry during the month but at the end of the month is flowing with a good sized volume of water.

Blue Spring - continues about the same as last month.

Geopline Spring - About February 17 water began to flow from this spring and at the end of the month we find a general steadily increasing filling the old basin and flowing over the front of this terrace. Temperature - 128.50 F.

Quid Spring - Activity continues from the vents to the north and west at the top of this terrace with the flow slightly less than in January.

Hymen Spring - is still inactive.

Jupiter Terrace - This spring has increased throughout the month until it approximates the flow of several months ago.

Main Spring - Flow at the east end of Main Terrace has almost entirely stopped and there is but a slight sulphurous tint evidencing the surface activity although subterranean water may be heard bubbling away at a great rate.

Minerva Spring - A slight amount of activity has been seen at this spring during February although at the end of the month flow of water had practically ceased.

Mound Spring - continues its spectacular play from numerous vents along the top of the terrace with the entire amount of water flowing to the south and west. Temperature - 149° F.

Naiad Spring - continues about the same as in January.

Opal Spring - It is of interest to note that the activity at this spring continues about the same from month to month with very slight alteration in the amount of flow.

Orange Spring Mound - Vents flowing to the south and west continue to discharge a small amount of water.

Palette Spring - is now perhaps the most beautiful of all of the active springs at Mammoth, the water being discharged to the east and spreading over a greater area than at any time during the past three years. Water flows now to the east as well as to the west of the Devils Thumb. The terraces at the top and to the east are being built up very rapidly with considerable deposition of new travertine. Coloration of the spring is the most beautiful in several years. Temperature - 143° F.

Summit Basin Spring - has come back again and assumes a new high level at the end of February. Temperature - 140° F.

New Spring - continues very active as it did in January. Although the vent furthest to the north is not so active, the total amount of water seems to be about the same.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

Travel figures for this month show a decrease of 242 automobiles and 277 visitors as compared with February, 1936. This decrease is accounted for by the fact that the poor hunting conditions which existed in the Gardiner-Jardine territory did not attract as great a number of visitors to the region as were recorded last year when hunting was good. Highway conditions and disagreeable weather were also influencing factors

Hyman Spring - is still inactive.

Juniper Terrace - This spring has been active throughout the month until it approaches the flow of several months ago.

Main Spring - Flow at the east end of the terrace has been almost entirely stopped and there is but a slight seepage from the terrace surface activity although intermittent water may be seen bubbling out at a great rate.

Minerva Spring - A slight amount of activity has been seen at this spring during February although at the end of the month flow of water had practically ceased.

Mount Spring - continues its sporadic play from numerous wells along the top of the terrace with the entire amount of water flowing to the south and west. Temperature - 140° F.

Island Spring - continues about the same as in January.

Osage Spring - It is of interest to note that the activity of this spring continues about the same from month to month with very slight alteration in the amount of flow.

Orange Spring - Water flowing to the south and west continues to discharge a small amount of water.

Palatte Spring - is now perhaps the most beautiful of all of the active springs at Mount, the water being discharged to the east and spreading over a great area that at this time during the past three years water flows now to the east as well as to the west of the terrace. The terraces at the top and to the east are being built up very rapidly with considerable deposition of new material. Location of the spring is the most beautiful in several years. Temperature - 140° F.

Summit Basin Spring - has come back again and overflows a new high level at the end of February. Temperature - 140° F.

New Spring - continues very active as it is in January. Although the vent further east in the north is not as active, the total amount of water seems to be about the same.

500 - Use of Park Facilities by the Public

510 - Increase of Deer in the Territory

Travel figures for this month show a decrease of 342 automobiles and 277 visitors as compared with February, 1933. This decrease is accounted for by the fact that the deer hunting conditions which existed in the Gardner-Jardine territory did not attract as great a number of visitors to the region as were recorded last year when hunting was open. Highway conditions and disagreeable weather were also influencing factors

in preventing greater travel this month.

530 - Special Visitors

There were no special visitors to the park during the month.

600 - Protection

610 - Police Protection

On February 16 Joseph E. Larsen of Gardiner, Montana was arrested for shooting and killing an elk inside of the boundaries of Yellowstone National Park. Mr. Larsen was fined \$50.00 and his gun was confiscated.

620 - Fire Protection

No fires occurred in the park during the month.

900 - Miscellaneous

Post Office - Business in the Post Office for the month of February was slightly less than the corresponding month of last year.

Church Services - Sunday School continued throughout the month. Usual winter church services were held during the month by Rev. Webster D. Clements, Lutheran Minister from Livingston.

Hospital and Medical - Twenty-one home and 120 office calls were reported for the month of February.

E.C.W. - Good progress was made on E.C.W. projects during the month, especially the last week during which mild weather prevailed. Work during the entire month consisted of elk disposal operations, construction of equipment storage sheds and power line, contact work in the museum and north entrance and continued construction of the compound storage wall and other minor projects.

Captain Sollman, District Inspector from Fort Missoula, was in the park twice during the month thoroughly going over the various activities in the C.C.C. camp which were being handled very unsatisfactorily according to district headquarters.

Captain E. Harris, who has been Company Commander of the Mammoth C.C.C. camp since last October, resigned effective March 1. Lieut. Woods, who has been with this Company at Mammoth since the fall of 1935, has assumed command until such time that a new commanding officer is appointed.

The educational adviser was discharged early in the month. It is expected that a new educational adviser and a new company commander will be installed in this camp before the end of the Eighth Enrollment Period.

in providing greater travel this month.

530 - Special Visitors

There were no special visitors to the park during the month.

600 - Protection

610 - Police Protection

On February 13 Joseph H. James of Parkersburg, West Virginia was arrested for shooting and killing an elk inside of the boundaries of Yellowstone National Park. Mr. James was fined \$50.00 and his gun was confiscated.

620 - Fire Protection

No fires occurred in the park during the month.

900 - Miscellaneous

Post Office - Business in the Post Office for the month of February was slightly less than the corresponding month of last year.

Church Services - Sunday School continued throughout the month. Usual inter church services were held during the month by Rev. Webster D. Clements, Lutheran Minister from Livingston.

Hospital and Medical - Twenty-one have had 120 visits while were reported for the month of February.

E.O.C. - Good progress was made on E.O.C. projects during the month, especially the last week during which mild weather permitted work during the entire month consisted of the seasonal operations, construction of equipment storage sheds and power line, contact work in the museum and north entrance and continued construction of the compound storage wall and other minor projects.

Captain Soliman, District Inspector from Fort Worth, Texas, was in the park twice during the month thoroughly going over the various activities in the E.O.C. camp which were being handled very satisfactorily according to district headquarters.

Captain G. Harris, who has been Company Commander of the 100th E.O.C. camp since last October, resigned effective March 1. Lieut. Woods, who has been with this Company at Mammoth since the fall of 1935, has assumed command until such time that a new company officer is appointed.

The educational adviser was discharged early in the month. It is expected that a new educational adviser and a few company commanders will be installed in this camp before the end of the month. This is the last period.

From a preliminary check it is expected that sixty enrollees from the Mammoth Camp will return to their homes at the end of this Period, leaving our Company strength at about sixty.

All of the E.C.W. foremen have practically used up their entire leave and at the present time the project superintendent is on leave, having left Yellowstone on February 15 and to return the latter part of March.

Plans are being made for the return of the side camps located at Tower Falls and Slough Creek to the main camp about March 10. The side camp at Slough Creek has been in operation continuously since the fall of 1934, when the first elk disposal operations were conducted.

- - - - -

The regular monthly meeting of the Federal Employees' Union, Local No. 465, was held in the lodge room of the Canteen building on February 1. Forty-one members were present out of a total membership of 80. Interest in the meetings has increased and the Local is handling all of the entertainment activities for the Community during the winter. A dance and lunch is scheduled for the next regular meeting in March.

A number of the park people enjoyed a Bunco party at the Canteen on February 6 while a dance was held on February 20, sponsored by the Federal Employees' Union, proved very successful.

Very truly yours,

Edmund B. Rogers,
Superintendent.

VG

From a preliminary check it is expected that fifty employees from the Mammoth Camp will return to their homes at the end of the period, leaving only twenty employees at about sixty.

All of the U.C.W. foremen have practically had no work since leave and at the present time the greatest employment is on leave, having left Yellowstone on February 13 and to return the latter part of March.

Plans are being made for the return of the camp located at Tower Falls and Grand Creek to the main camp about 101. The side camp at Grand Creek has been in operation continuously since the fall of 1934, and the first six seasonal employees were employed.

The regular monthly meeting of the Federal Employees' Union, Local No. 455, was held in the lounge room of the Union building on February 1. Forty-two members were present out of a total membership of 80. Interest in the meeting has increased and the local is handling all of the entertainment activities for the community during the winter. A dance and lunch is scheduled for the next regular meeting in March.

A number of the local people enjoyed a party given at the Union on February 6 and a dance was held on February 12, sponsored by the Federal Employees' Union, proved very successful.

Very truly yours,

Edward H. ...
Local 455

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone National Park for the month of February, 1937

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

PRIVATE TRANSPORTATION:

cars first entry,	6	1,362	201	2,251	889	-39.4
cars reentry,	103	1,887	150	2,057	170	- 8.2
motorcycles,		6		2	4	66.6
Total motor vehicles,	109	3,255	351	4,310	1,055	-24.5
persons entering via motor vehicles,	284	9,334	561	11,348	2,014	-17.7
persons entering via other private transportation,				40		
Total persons entering via private transportation,	284	9,334	561	11,388	2,054	-17.8

OTHER TRANSPORTATION:

persons entering via stages,						
persons entering via trains,						
persons entering otherwise,						
Total other transportation,						

GRAND TOTAL ALL VISITORS, 284 9,334 561 11,388 2,054 -17.8

	This Year	Last Year	Increase	
			Number	Percent

automobiles in public camps during month,
 campers in public camps during month,

NATIONAL PARK SERVICE

TRAVEL REPORT

Date: _____

National Park for the month of _____

Telephone _____

This Month	This Year	This Month	This Year	This Month	This Year	This Month	This Year
100	1,000	100	1,000	100	1,000	100	1,000
200	2,000	200	2,000	200	2,000	200	2,000
300	3,000	300	3,000	300	3,000	300	3,000
400	4,000	400	4,000	400	4,000	400	4,000
500	5,000	500	5,000	500	5,000	500	5,000
600	6,000	600	6,000	600	6,000	600	6,000
700	7,000	700	7,000	700	7,000	700	7,000
800	8,000	800	8,000	800	8,000	800	8,000
900	9,000	900	9,000	900	9,000	900	9,000
1,000	10,000	1,000	10,000	1,000	10,000	1,000	10,000
1,100	11,000	1,100	11,000	1,100	11,000	1,100	11,000
1,200	12,000	1,200	12,000	1,200	12,000	1,200	12,000
1,300	13,000	1,300	13,000	1,300	13,000	1,300	13,000
1,400	14,000	1,400	14,000	1,400	14,000	1,400	14,000
1,500	15,000	1,500	15,000	1,500	15,000	1,500	15,000
1,600	16,000	1,600	16,000	1,600	16,000	1,600	16,000
1,700	17,000	1,700	17,000	1,700	17,000	1,700	17,000
1,800	18,000	1,800	18,000	1,800	18,000	1,800	18,000
1,900	19,000	1,900	19,000	1,900	19,000	1,900	19,000
2,000	20,000	2,000	20,000	2,000	20,000	2,000	20,000

Total for month _____

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone

National Park for the Month of

February, 1937

	This Year	Last Year
Park revenue on hand beginning of month,	-0-	-0-
Received,	\$51,082.13	\$3,718.05
Total,	51,082.13	3,718.05
Remitted,	51,082.13	3,718.05
On hand close of month,	-0-	-0-
Park revenues received this year to date,	\$348,743.68	
Park revenues received last year to date,	274,021.72	
Increase,	74,721.96	
Per cent of increase,	27.27	

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

For the year ending _____ National Park for the month of _____

Item	1921	1922
Revenue on annual beginning of month	---	---
Revenue received	---	---
Total	---	---
Revenue received last year in month	---	---
Revenue received	---	---
Total	---	---

The revenues received this year in month _____ are _____ percent greater than the revenues received last year in month _____.

The increase in revenue is _____ percent.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of February, 1937

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	* 87	Reg. 11	94	Reg. 15 PW 7
Number of additions.....	1	" 10	0	Reg. 9 PW 1
Total.....	88	" 21	94	Reg. 24 PW 8
Number of separations.....	(Jan.) 1	" 6	Reg. 1 PW 1	Reg. 12 PW 4
Number of employees close of month.....	** 87	" 15	92	Reg. 12 PW 4
Number of promotions during month.....	2		0	
Aggregate amount of annual leave taken	Reg. 105-7/16 ECW 39-1/2		Reg. 47-5/16 PW 1/2 ECW 2-1/2	
Aggregate amount of sick leave taken.....	Reg. 36-1/4 ECW 2-1/2		Reg. 12 ECW 2	
Aggregate amount of leave without pay.....	0		26	

*Includes 77 regular and 10 ECW employees.

**Includes 77 regular and 10 ECW " .

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

National Park for the month of

This Month		Total Month		Number of employees beginning of month
Actual	Authorized	Actual	Authorized	
1	10	1	10	Number of additions
1	10	1	10	Number of separations
1	10	1	10	Number of employees close of month
1	10	1	10	Number of promotions during month
1	10	1	10	Aggregate amount of annual leave taken
1	10	1	10	Aggregate amount of sick leave taken
1	10	1	10	Aggregate amount of leave without pay

*Include by number and in the column.

*Include by number and in the column.

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of February, 1937

	This Month	This Month Last Year	Increase	Per cent Increase
<u>LOCAL BUSINESS</u>				
Miles of circuit maintained,	600	604	- 4	- .66
No. of telephones connected,	253	233	20	8.58
No. of measured service calls,				
No. of other local calls,				
Total No. of local calls,				
Peak load in calls per day,				
<hr/>				
Receipts from measured service calls, . . .				
" " coin boxes,				
" " telephone rental,				
<hr/>				
TOTAL RECEIPTS				
<hr/>				
<u>LONG DISTANCE BUSINESS</u>				
No. Outbound calls,				
No. Inbound calls,				
<hr/>				
TOTAL LONG DISTANCE CALLS				
<hr/>				
Peak load in calls per day,				
Receipts from Long Distance business, . . .				
<hr/>				
<u>TELEGRAPH BUSINESS</u>				
Messages via Western Union,				
Messages via				
<hr/>				
TOTAL MESSAGES				
<hr/>				
Receipts from telegraph business,				
No. of money transfer messages,				
" " " " receipts,				
<hr/>				
TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS.				

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

National Park for the year ending December 31, 1937

Item	1937	1936	Change
------	------	------	--------

LOCAL BUSINESS

Item	1937	1936	Change
Local calls	1,234	1,100	134
Long distance calls	567	520	47
Telegraph messages	123	110	13
Total	1,924	1,730	194

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

TOTAL RECEIPTS

LONG DISTANCE BUSINESS

Item	1937	1936	Change
Outbound calls	345	320	25
Inbound calls	210	190	20
Total	555	510	45

TOTAL LONG DISTANCE CALLS

Receipts from long distance business, ask load in calls per day,

TELEGRAPH BUSINESS

Item	1937	1936	Change
Messages via Western Union	150	140	10
Messages via other	70	60	10
Total	220	200	20

TOTAL MESSAGES

Receipts from telegraph business, of money transfer messages, receipts,

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yellowstone National Park for the Month of February, 1937

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	87,500	184,600	72,049	123,724	60,876	49.2
Sold to park operators,	1,032	2,015	391	733	1,282	174.9
Sold to others,						
Furnished to other Governmental agencies,						
Used by National Park Service						
lost in transit, etc.,	86,468	182,585	71,658	122,991	59,594	48.4
Total current generated, . . .	87,500	184,600	72,049	123,724	60,876	49.2

Amount receivable from the sale of electricity, \$ 14,30

* Indicated by K. W. H.

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone National Park

Monthly Report of
Minor Roads and Trails Projects

(Area)

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

As of February 28, 1937
 (Date)

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.						



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

Office of the Superintendent

February 5, 1937

CIRCULAR NO. 3

Effective at once and until further notice the following members of the Mammoth community will constitute the Yellowstone Park school board:

Robert R. Robinson, Jr. - Chairman
Mrs. Icel H. Wright
W. Leon Evans

Mr. Evans will fill the vacancy created by the death of Mr. Crowe, there being no change in the other two members of the board.

Edmund B. Rogers
Superintendent



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

Office of the Superintendent

February 10, 1937

CIRCULAR NO. 4

Effective at once, the following committee is appointed to investigate and report on all accidents involving Park Service men or equipment:

R. R. Robinson, Chairman
Curtis K. Skinner
Deate T. White

This committee is directed to investigate the cause of all such accidents and make recommendations to the Superintendent on ways to prevent accidents, and in accidents where carelessness is involved make recommendations on penalizing the employee.

It is very necessary that the number of accidents to park employees be reduced, and it is hoped that all park employees will cooperate with the Committee to this end.

Edmund B. Rogers
Superintendent



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

SUMMARY OF WEATHER CONDITIONS
at
MAMMOTH HOT SPRINGS, YELLOWSTONE NATIONAL PARK.

FEBRUARY, 1937.

The mean temperature this February, 17.8° was 3.3° below the February normal. The highest temperature was 40° on the 24th, and the lowest, -13° on the 20th. Three days had minimum readings of zero or lower this February, which brings the total for the season to 33 days. The first day this season below zero was November 2nd. On February 5th, the temperature raised above 32° for the first time since Christmas Day; other days in February with a maximum above 32° were the 23rd, 24th. and 28th.

Snowfall in February amounted to 18.6 inches, which gave 1.30 inches precipitation when melted. The total seasonal snowfall since last August is 64.4 inches as compared to the normal total snowfall of 61 inches at the end of February. The average depth of snow on the ground February 28th. was 8.7 inches, and this had a water content of 2.08 inches when melted. The density of the snow on the ground has increased during the winter from 12% water at the end of December, to 16% at the last of January and 24% on the last day of February.

One day in February was clear, eight were partly cloudy, and nineteen were cloudy. The wind averaged 10.5 miles per hour for the month and came from the South and Southwest 68% of the time. The relative humidity at 5:30 a.m. averaged 74%, at noon, 67% and at 5:30 p.m., 65%. Sunshine was present 49% of the possible hours.

The length of day, sunrise to sunset, increased during February from 9 hours, 48 minutes on the 1st. to 11 hours, 6 minutes on the 28th.

Charles L. Howard.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

Station, YELLOWSTONE PARK, WYOMING.; month, FEBRUARY, 19 37.

TEMPERATURE. (Degrees Fahrenheit.)			Precipitation. (In inches and hundredths.)	Character of day.	% of possible sunshine	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)	
Max.	Min.	Mean.				Mean	highest
28	10	19	0	Cloudy	52	30.08	30.60, date 15
27	17	22	T	Cloudy	34	29.33	7
25	13	19	T	Cloudy	40	TEMPERATURE.	
30	20	25	.30	Cloudy	0	Highest	40, date 24; lowest -13, date 20
34	12	23	.05	Cloudy	32	Greatest daily range	29, date 15
21	12	16	.24	Cloudy	28	Least daily range	8, date 22
15	-1	7	.06	Cloudy	70	MEAN FOR THIS MONTH IN—	
15	5	10	T	Cloudy	44	1871	82 93 04 23.8 15 26.4 26 27.1
23	3	13	0	Pt. Clody	72	1872	83 94 05 17.0 16 24.4 27 22.9
23	10	16	.01	Cloudy	65	1873	84 95 06 23.8 17 19.5 28 19.8
29	18	24	T	Cloudy	5	1874	85 96 07 26.8 18 18.2 29 13.7
31	11	21	.05	Cloudy	46	1875	86 97 08 23.2 19 19.2 30 27.6
51	7	19	T	Pt. Clody	68	1876	87 98 09 21.0 20 21.4 31 25.2
33	6	20	.16	Cloudy	16	1877	88 99 10 15.2 21 24.4 32 31.2
30	1	16	T	Pt. Clody	88	1878	89 00 11 14.3 22 12.9 33 10.2
50	13	32	.05	Cloudy	61	1879	90 01 12 22.4 23 16.4 34 28.2
20	0	14	.09	Cloudy	25	1880	91 02 13 10.3 24 26.2 35 24.2
23	7	15	.09	Pt. Clody	49	1881	92 03 14 20.1 25 27.6 36 10.9
19	-2	10	.03	Cloudy	41	Normal for this month	
13	-13	0	.08	Pt. Clody	69	21.1	17.8
27	8	18	.09	Cloudy	8	Absolute maximum for this month for 34 years 55	
31	25	27	T	Cloudy	51	Absolute minimum for this month for 34 years -40	
35	24	30	T	Cloudy	50	Average daily excess (+) or deficiency (-) of this month as compared with the normal -3.3	
40	12	26	0	Clear	100	Accumulated excess (+) or deficiency (-) since January 1 -588	
18	4	11	T	Cloudy	44	Average daily excess (+) or deficiency (-) since January 1 -10.0	
17	1	9	T	Pt. Clody	76	PRECIPITATION.	
21	4	18	T	Pt. Clody	71	Total this month 1.30; snowfall 18.6	
34	19	26	T	Pt. Clody	63	Greatest precipitation in 24 hours 0.33, date 4 & 5	
Total.						Greatest 24-hour snowfall 4.3", date 4 & 5	
26.6	9.0	17.8	1.30	49	Snow on the ground at end of month 8.7"		
						TOTAL PRECIPITATION THIS MONTH IN—	
						1871	82 93 04 15 26
						1872	83 94 05 16 27
						1873	84 95 06 17 28
						1874	85 96 07 18 29
						1875	86 97 08 19 30
						1876	87 98 09 20 31 0.25
						1877	88 99 10 21 32 0.70
						1878	89 00 11 22 33 0.76
						1879	90 01 12 23 34 0.24
						1880	91 02 13 24 35 0.48
						1881	92 03 14 25 36 1.60
						Normal for this month 0.61 1.30	
						Excess (+) or deficiency (-) of this month as compared with the normal +0.69	
						Accumulated excess (+) or deficiency (-) since January 1 +0.75	
						MEAN RELATIVE HUMIDITY (Percentage).	
						5:30 a. m., 74; local noon, 67; 5:30 p. m., 65	
						WIND.	
						Prevailing direction SW; total movement 7025 miles;	
						average hourly velocity 10.5; maximum velocity (for five minutes) 32 miles per hour, from SW	
						on 17	
						Maximum wind velocity this month since 1904 (True velocity) 41, NW, 1923.	
						WEATHER.	
						Number of days, clear 1; partly cloudy 8; cloudy 19	
						on which .01 inch, or more, of precipitation occurred 13	
						MISCELLANEOUS PHENOMENA (dates of).	
						Auroras 0; halos: solar 20, 34, lunar 0	
						Hail 0; sleet 0; fog, light 24, 25	
						Thunderstorms 0	
						* Frost: light; heavy; killing	

NOTE.—"T" indicates trace of precipitation.
 Total Degree days 1319
 at the autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.
 lowest observed relative humidity, 38% at 11:10 a. m., Feb. 18th.
 Charles L. Howard.
 Weather Bureau.
 75-3-1-37.

U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

MONTHLY

METEOROLOGICAL SUMMARY

STATION

MONTH

, 19

