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

FILE NO.

MONTHLY REPORT

February, 1939

IMPORTANT

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ARNO B. CAMMERER,
Director.

U. S. GOVERNMENT PRINTING OFFICE 6—7410

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

March 4, 1939

Memorandum for the Director:

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

000 - General

A happy memory to those who attended was "Montana Day" on Sunday, February 19, when 1001 people in 278 cars were checked in through the north entrance. Considerable publicity throughout the State had been given this occasion which was sponsored by the Gardiner Commercial Club in cooperation with the National Park Service. Skiing courses suitable for amateurs as well as experienced skiers had been laid out at the "Little America" ski field and this sport was enjoyed by many. Large numbers of elk, deer, antelope, mountain sheep and buffalo were seen by the visitors, particularly those who traveled the road between Gardiner and the Buffalo Ranch in the morning. Many residents of Mammoth participated in this event in addition to the number mentioned above. Sandwiches and coffee were served free of charge by the Gardiner Commercial Club at the Buffalo Ranch bunkhouse. The event provided an unusual and enjoyable outing for those who made the trip and the first winter "Montana Day" in Yellowstone National Park was chalked up as an outstanding success.

020 - General Weather Conditions

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

021 - In the Park

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

(See following page)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

	1931	1932	1933	1934	1935	1936	1937	1938	1939
Buffalo Ranch	14	24	24	3	11	27	20	18	14
Bechler River	32	64	79	43	42	87	70	59	82
Cooke	21	30	41	31	20	36	40	35	38
Gallatin	21	27	38	20	25	36	30	32	26
Lake	15	32	38	20	20	38	28	40	26
Mammoth	8.1	12.4	12.4	*	6.5	20	8	7	6
Old Faithful	14	46	64	31	24	56			42
Snake River	28	43	70	41	38	76	58	44	62
Tower Falls	18	23	24	4	18	30	21	22	14
West Yellowstone	16	38	45	23	31	55	50	39	40

*Drifts only.

The Mammoth-Cooke road was opened each week-end while the Mammoth-Gardiner section required but little clearing. All other roads in the park remained closed.

022 - Approaches to the Park

The West Yellowstone-Bozeman road was kept open for travel by the Montana Highway Department snow removal equipment.

Except during storm periods, the road from Moran to Jackson, Wyoming, was open, as was the Hoback Canyon road and Teton Pass. The Ashton-West Yellowstone and Red Lodge-Cooke roads were blocked by snow, while the Cody-East Entrance road was closed for ten miles below the checking station after the 11th. The Livingston to Gardiner, Montana approach road remained open and in good condition.

023 - In Nearby States

Normal winter weather conditions prevailed in the surrounding states. Only main highways remained open in the higher areas.

100 - Administration

110 - Status of Work

Superintendent Rogers was in Washington throughout the month on special assignment. Assistant Superintendent Emmert was acting in his absence.

The Chief Clerks' Conference in Washington from February 15 to 20 was responsible for Chief Clerk Neilson's and Assistant to the Superintendent Joffe's absence from the park during most of the month. Mr. Neilson left on February 3 and Mr. Joffe on February 11. Both were away the balance of the month.

Morey L. Sher, Voucher Clerk, Grade 8, $1800 per annum, resigned at the close of February 9 to go into private business in Denver, Colorado.

On February 10 the appointment papers of DeLyle R. Stevens as park ranger, Grade 8, $1860 per annum, were received. It is expected that Mr. Stevens will report for duty about March 15.

	1931	1932	1933	1934	1935	1936	1937	1938	1939
Buffalo Ranch	14	24	24	5	11	27	20	19	14
Boulder River	32	34	17	43	43	38	72	53	36
Cooke	21	30	41	31	20	36	43	[illegible]	[illegible]
Gallatin	21	27	39	26	27	34	30	35	[illegible]
Lake	15	32	32	20	20	38	22	40	26
Mammoth	8.1	12.4	12.4	*	6.3	20	[illegible]	[illegible]	[illegible]
Old Faithful	14	45	34	31	24	36	[illegible]		42
Snake River	28	43	70	41	38	70	38	44	66
Tower Falls	18	23	34	4	19	39	21	22	14
West Yellowstone	16	32	45	23	21	[illegible]	50	70	40

*Drifts only.

The Mammoth-Cooke road was opened each week-end while the Mammoth-Gardiner section required but little clearing. All other roads in the park remained closed.

022 - Approaches to the Park

The West Yellowstone-Bozeman road was kept open for travel by the Montana Highway Department snow removal equipment.

Except during storm periods, the road from Ennis to Jackson, Wyoming, was open, as was the Hebgen Canyon road and Lower Ferry. The Ashton-West Yellowstone and Red Lodge-Cooke roads were blocked by snow, while the Cody-East Entrance road was closed for ten miles below the Wyoming entrance after the 11th. The driving to Gardiner, Montana approach road remained open and in good condition.

023 - In Nearby States

Normal winter weather conditions prevailed in the surrounding states. Only main highways remained open in the higher areas.

100 - Administration

110 - Routine of Work

Superintendent Rogers was in Washington throughout the month on special assignment. Assistant Superintendent Lemert was acting in his absence.

The Chief Clerks' Conference in Washington from February 19 to 22 was responsible for Chief Clerk Wallson's and Assistant to the Superintendent Joffe's absence from the park during most of the month. Mr. Wallson left on February 3 and Mr. Joffe on February 11. Both were away the balance of the month.

Morey L. Sher, Voucher Clerk, Grade 9, $1800 per annum, resigned at the close of February 9 to go into private business in Denver, Colorado.

On February 10 the appointment papers of Holyle R. Stevens as park ranger, Grade 8, $1660 per annum, were received. It is expected that Mr. Stevens will report for duty about March 15.

Effective February 9, Mrs. Agnes E. Welch resigned her seasonal position as Assistant Clerk (Stenographer-Comptometer Operator).

Mrs. Rita Ellen Bergren entered on duty under an emergency field agreement as an ERA clerk on February 14.

An examination for Junior and Senior Stenographer (Male) was held on February 10 by the local civil service board.

Under authority of orders dated February 1 the positions of Warehouseman (Seasonal) and Research Naturalist were abolished from the Yellowstone rolls.

In order to attend the National Asphalt Conference in Los Angeles from February 27 to March 3 and the American Road Builders Convention in San Francisco from March 5 to 20, Park Engineer Lord left the park on the twenty-third.

Mrs. Loustalet J. Quinn, Clerk, Grade 8, left on February 25 to take up her new position as Senior Stenographer in the Regional Office at Omaha. Mrs. Quinn will be employed with the Branch of Engineering.

On the twenty-fourth notification was received of the establishment of the position of Warehouseman-Truck Driver, Grade 7 FCS, $1620 per annum, in lieu of position established as Motor Truck Driver, FCS-5, $1500 per annum.

120 - Inspections by:

121 - Acting Superintendent

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

February 2 - With Chief Ranger LaNoue to Livingston to confer with Forest Service officials regarding purchase of land north of the park.

February 3 - With Chief Ranger LaNoue to the Game Ranch and vicinity.

February 6 - With Messrs. Joffe, LaNoue and Barrows to Livingston in the evening to meet with the Directors of the Livingston Chamber of Commerce and the Gardiner Commercial Club; night in Livingston.

February 7 - With Messrs. LaNoue and Joffe met with Park County Commissioners; returned Mammoth.

February 14 - To Buffalo Ranch and return with Schweitzer and representatives of the Gardiner Commercial Club to make plans for "Montana Day".

February 17 - To Gardiner and the Stermitz ranch and return.

February 19 - To Buffalo Ranch in connection with "Montana Day".

Effective February 9, Mrs. Agnes E. Welch resigned her seasonal position as Assist ht Clerk (Storeyard Ser-Accounting Operator).

Mrs. Nina Allen Jorgens entered on duty under the emergency relief appointment as an WPA clerk on February 11.

An examination for Junior and Senior Stenographer (Relief) was held on February 10 by the local civil service board.

Under authority of orders dated February 1 the resignations of Seasonal (Seasonal) and Temporary Emergency Relief were accepted from the following rolls.

In order to attend the National Regional Conference in Los Angeles from February 27 to March 3 and the American Home Building Conference in San Francisco from March 3 to 10, Park Engineer Lorn left the park on the twenty-third.

Mrs. Longshaft L. Quinn, Clerk, Grade 3, left on February 29 to take up her new position as Senior Stenographer in the Regional Office at Omaha. Mrs. Quinn will be replaced with the rank of Junior Clerk.

On the twenty-fourth notification was received of the establishment of the position of Paraphernalia-Truck Driver, Grade 3 PCL, $1620 per annum, in lieu of position established as Motor Truck Driver, TCS-3, $1500 per annum.

120 - Inspections by:

121 - Acting Superintendent

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

February 2 - With Chief Ranger Lemons to Livingston to confer with Forest Service officials regarding purchase of land north of the park.

February 3 - With Chief Ranger Lemons to the Dude Ranch and Wishkah.

February 6 - With Messrs. Jones, Lemons and Lorenzen to Livingston in the evening to meet with the Directors of the Livingston Chamber of Commerce and the Gardiner Commercial Club; night in Livingston.

February 7 - With Messrs. Lemons and Jolly met with Park County Commissioners; returned Mammoth.

February 14 - To Buffalo Ranch and return with Sommelier and representatives of the Gardiner Commercial Club to make plans for "Montana Day".

February 17 - To Gardiner and the Storeyard ranch and return.

February 19 - To Buffalo Ranch in connection with "Montana Day".

February 22 - With Master Plumber Wiggins to Livingston to confer with American Legion officials regarding employment of veterans; returned Mammoth.

February 25 - To Cody with Messrs. LaNoue and Bauer to attend Buffalo Bill's birthday celebration; returned Mammoth 26th.

122 - Special Field Representatives of the National Park Service

Harry Dunham, Inspector (CCC), Region II, Omaha, in north February 6; out north February 8.

Dr. Adolph Murie, Wildlife Technician, Region II, Omaha, in north February 23.

140 - Labor Situation

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

150 - Equipment and Supplies

There were eight carloads of coal, one carload each of pine lumber, fuel oil, gasoline and oak flooring, and two carloads of tanks received in addition to other shipments of tire chains, refrigerators, plumbing supplies, lubricating oil, electrical supplies, plaster, hardware, lumber, kerosene and plow parts weighing 58,781 lbs.

The value of storehouse issues during the month of February was $9,257.92.

170 - Plans, Maps and Surveys

Routine office work and Public Works projects continued as principal inside activities. Field work was confined to layout work in the Mammoth campground and surveys on the Mammoth utility road connecting the employees' cottage area.

180 - Circulars, Placards, Publicity Bulletins, Etc.

Circular No. 1 was issued on February 10 and a copy is attached. The January-February issue of Nature Notes was issued during the month to a miling list of over 600. A copy of this publication is attached.

Several press releases on game management, "Montana Day", and winter sports activities were issued during the month.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

The opening of the Mammoth to Cooke highway and snow removal around

February 22 - With Master Plumber Tiggins to Hinkleyton to confer with American Legion officials regarding employment of veterans; returned Mammoth.

February 25 - To Cody with Messrs. Lamb and Lester to attend Buffalo Bill's birthday celebration; returned March 26th.

122 - Special Field Representatives of the National Park Service

Harry Dunham, Inspector (NM), Region II, Omaha, in north February 5; out north February 8.

Dr. Adolph Murie, Wildlife technician, Region II, Omaha, in north February 23.

140 - Labor Situation

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

150 - Equipment and Supplies

There were eight carloads of coal, one carload each of pine lumber, fuel oil, gasoline and oak flooring, and two carloads of tanks received in addition to other shipments of tire chains, refrigerators, plumbing supplies, lubricating oil, electrical supplies, lacquer, hardware, lumber, kerosene and plow parts weighing 38,760 lbs.

The value of storehouse issues during the month of February was $9,257.92.

170 - Plans, Maps and Surveys

Routine office work and Public Works projects continued as principal inside activities. Field work was confined to layout work in the Mammoth campground and surveys on the Mammoth utility road connecting the employees' cottage area.

180 - Circulars, Placards, Publicity Bulletins, Etc.

Circular No. 1 was issued on February 10 and a copy is attached. The January-February issue of Nature Notes was issued during the month to a mailing list of over 600. A copy of this publication is attached.

Several press releases on park management, "Kansas Day", and winter sports activities were issued during the month.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

The opening of the Mammoth to Cooke highway and snow removal around

headquarters and on the Mammoth-Gardiner road comprised the only road maintenance work. Five trips were made to Cooke this month, with several parking areas cleared. The two approaches to the Yellowstone River were sanded in addition to regular sanding of the Gardiner road.

220 - Improvements

Shops - In addition to the usual maintenance of equipment carried on, there were ten trucks overhauled and considerable time was spent in operating the snow plow in keeping various roads open in the park.

Electrical Department - In addition to the usual maintenance and repairs, various quarters were rewired and changes made to bring several of the quarters up to present day electric code standards and the new residence in the Mammoth campground was wired in conduit throughout.

Carpenter Shop - In addition to minor repairs, new oak floors were laid in two of the residences.

Paint Shop - Work in this department consisted of the laying of linoleum in the new cottage located in the Mammoth campground, remodeling of building No. 7 and other regular maintenance jobs.

Plumbing Department - In addition to the usual maintenance and operation during the month, 250 feet of 6-inch vitrified clay sewer pipe were installed for service line from building No. 87, a complete new heating plant was installed at the north wing of the barracks building which is designed to burn heavy fuel oil, and the installation of a complete plumbing system and heating plant was commenced in the new building No. 87.

230 - New Construction

In general, most of the ERA program was completed. This included the renovation of the basements of buildings Nos. 1, 2 and 3, the U. S. Commissioner's quarters, most of the barracks building, and building No. 7 betterment. Sign work continued and delays on contracted materials prevented the completion of the four-room dwelling in the employees' cottage area.

Project O.P. 266 - Approved plans were received for the West Thumb sewer and water systems and for the Lake sewer system. Considerable equipment was ordered for all the sewer, water and electrical systems.

Project O.P. 267 - Materials purchased represented most of the work on this project during the month.

Contract Construction - The only active project was McNutt Brothers on the East Entrance approach road, and this was principally work by the contractor on their equipment. With the road snowed in on February 12, they abandoned their work until some time in March.

headquarters and on the Mammoth-Gardiner road comprised the park road maintenance work. Five trips were made to Cooke City, with several park log areas cleared. The two approaches to the Yellowstone River were cleared in addition to regular sanding of the Gardiner road.

230 - Improvements

Shops - In addition to the usual maintenance of equipment carried on, there were ten trucks overhauled and considerable time was spent in operating the snow plow in keeping various roads open in the park.

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Paint Shop - Work in this department consisted of the laying of linoleum in the new cottage located in the Mammoth campground, remodeling of building No. 7 and other regular maintenance work.

Plumbing Department - In addition to the usual maintenance and operation during the month, 250 feet of 6-inch vitrified clay sewer pipe were installed for service line from building No. 87, a temporary heating plant was installed at the north wing of the barracks building which is designed to burn heavy fuel oil, and the installation of a complete plumbing system and heating plant was completed in the new building No. 87.

230 - New Construction

In general, most of the work program was completed. This included the removation of the basements of buildings Nos. 1, 2 and 3, the U. S. Commissioner's quarters, most of the barracks building, and building No. 7 betterment. Sign work continued and various construction materials prevented the completion of the dormitory building in the employees' lodge area.

Project O.P. 266 - Approved plans were received for the West Yellowstone sewer and water systems and for the Lake sewer system. Considerable equipment was ordered for all the sewer, water and electrical systems.

Project O.P. 267 - Materials purchased represented most of the work on this project during the month.

Contract Construction - The only active project was Mount Brothers on the East Entrance approach road, and this was principally work by the contractor on their equipment. With the road opened in on February 12, they abandoned their work until some time in March.

300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

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

400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

Ranger activities consisted of routine office work and regular winter patrols, including the pursuit of poachers to the vicinity of Moran, Wyoming. Elk trapping operations and supervision of winter sports on week-end constituted the other major work.

420- Museum Service

The duties in the Naturalist Department during the month consisted several field observations on Big Horn Sheep and other wildlife, issuance of the January-February issue of Nature Notes and preparation of lectures.

470 - Animals

Antelope - These animals ranged further down the Yellowstone Valley than usual during the month. Very few antelope were seen in the vicinity of Gardiner and the bands at the Game Ranch were widely scattered while large numbers were ranging north of Reese Creek outside of the park boundaries.

Three of the four antelope that have been wintering in the vicinity of the Buffalo Ranch were observed there throughout the month. We have no previous record of antelope wintering in this area.

Big Horn Sheep - Between four and five rams have grazed most of the month in the immediate vicinity of the north entrance. No visitor could fail to see these bighorns as they have been along the road practically all the time. It is unusual for bighorns to range so near the town of Gardiner; however, these particular rams have been in the yards and all around the Yellowstone Transportation Company buildings.

A total of 51 bighorns was counted between the Buffalo Ranch and the northeast entrance and it is quite probable that there are more in this area. With the exception of the band on Druid Peak, no bighorns have been observed in the Baronett and Abiathar Peak section for a number of years. The rather flat top of Abiathar Peak is completely surrounded by precipitous cliffs and is virtually inaccessible to man. The 17 bighorns in this mountain were seen from nearby vantage points with binoculars.

Buffalo - Thirty-three buffalo carcasses were shipped to the following Indian Agencies on February 13 and 15:

Wind River. . . .	9	Fort Hall. . . .	9
Blackfeet	6	Tongue River . .	9

300 - Activities of Other Agencies in the Park

310 - Public Service Concessions

The general store at Kamath was kept open all year, supplying the people and provided excellent service for local residents.

400 - Flora, Fauna and Natural Resources

410 - Ranger, Naturalist and Game Service

Ranger activities consisted of regular office work and regular ranger patrols, including the periodic [illegible] to and from the Park by [illegible] Wyoming. Fire trapping, guardhouse and supervision of [illegible] were well-and constituted the other major work.

420- Museum Service

The duties in the Naturalist Department during the month consisted several field observations on Big Horn Sheep and other wildlife. Summaries of the January-February issue of Nature Notes and a summarized of [illegible].

470 - Animals

Antelope - These animals remained further from the Yellowstone Valley than usual during the month. Very few antelope were seen in the vicinity of Gardiner and the herds at the Park ranch were mostly restricted [illegible]. Large numbers were ranging north of Roses Creek outside of the park boundaries.

Three of the four antelope that have been wintering in the vicinity of the Buffalo Ranch were observed throughout the month. We have no previous record of antelope wintering in this area.

Big Horn Sheep - Between four and five rams have been seen most of the month in the Mammoth vicinity or the north entrance. It winter would fail to see these bighorns as they have been along the road practically all the time. It is unusual for bighorns to range as far [illegible] of Gardiner; however, some [illegible] rams have been [illegible] around the Yellowstone [illegible] Gardiner [illegible].

A total of 51 bighorns was counted between the Buffalo Ranch and the northeast entrance and it is quite probable that there are more in this area. With the exception of the band on Druid Peak, no bighorns have been observed in the Bacomott and Abiather Peak locality for a number of years. The rather flat top of Abiather Peak is completely surrounded by precipitous cliffs and is virtually inaccessible to man. The 17 bighorns in this mountain were seen from nearby vantage points with binoculars.

Buffalo - Thirty-three buffalo carcasses were [illegible] on the following Indian Reservations on February 15 and 16:

Wind River. . . .	2	Fort Hall. . . .	[illegible]
Blackfeet	6	Tongue River . . .	[illegible]

All of the 60 buffalo carcasses have been shipped.

The Fountain Flat area was checked for buffalo, February 22 and 21 buffalo were observed, the same number as counted in January. The Hayden Valley area was covered February 26 and 27, and 49 buffalo were found on the headwaters of Alum Creek.

Coyote - The coyote population is apparently much greater in the lower parts of the game range this winter. A considerable number of game kills have been reported, although carcasses are completely cleaned up in six to eight hours which makes it practically impossible to obtain a very close check on predatory propensities.

Elk - A cold wave occurred the second week in February and elk banded together on the wind-blown slopes. Shortly thereafter high winds and snowstorms caused the elk to scatter out and they had not congregated in large herds by the end of the month. Conditions are therefore not favorable for conducting a census at the present time.

According to advice from the Forest Service, elk have migrated from the park in about the same numbers as last year which indicates that approximately 4,000 are now on the Absaroka Forest.

Elk Reduction - Elk trapping operations were completed February 23 with a total of 296 animals having been shipped as follows:

Wolf Creek, Montana.	9
Elkhorn Area, near Boulder, Montana.	42
Tobacco Root Mtns., south of Whitehall, Montana.	37
Warm Springs Area, west of Anaconda, Montana . .	128
Shoshone County, Wallace, Idaho.	76
Buenos Aires, Argentine, Zoological Gardens. . .	1
Forest Preserve, Cook County, Illinois..	1
Butte, Montana	2
Total -	296

In the process of trapping and loading, eleven elk were accidentally killed.

480 - Phenomena

No noticeable changes were observed in the thermal activity during the month of February.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

First-entry cars during the present travel year have increased 91.5 per cent over those of the same period last year. The practice of opening

All of the 60 buffalo carcasses have been burned.

The Fountain Lake area was checked for buffalo, February 25 and 26; buffalo were observed, the same number as reported in January. The Hayden Valley area was covered February 26 and 27, and 19 buffalo were found on the headwaters of Alum Creek.

Coyote - The coyote population is apparently quite present in the lower parts of the game range this winter. A considerable number of coyotes have been reported, although carcasses are completely cleaned up in six to eight hours which makes it practically impossible to obtain a very close check on predatory properties.

Elk - A cold wave occurred the second week in February and elk gathered together on the wind-blown slopes. Thereby considerable bitter wind and snow-storms caused the elk to scatter and they had not congregated in large herds by the end of the month. Conditions are otherwise not favorable for conducting a census at the present time.

According to advice from the forest service, elk were migrated from the park in about the same numbers as last year which indicates that approximately 4,000 are now on the Bannock Forest.

Elk Reduction - Elk trapping operations were completed February 25 with a total of 296 animals having been shipped as follows:

Wolf Creek, Montana.	5
Elkhorn Area, near Boulder, Montana.	10
Tobacco Root Mtns., south of Whitehall, Montana. .	5
Warm Springs Area, west of Anaconda, Montana . .	129
Shoshone County, Wallace, Idaho.	76
Buenos Aires, Argentine, Zoological Gardens. . .	1
Forest Preserve, Cook County, Illinois.	1
Butte, Montana	2
Total -	296

In the process of trapping and loading, eleven elk were accidentally killed.

430 - Phenomena

No noticeable changes were observed in the terrestrial activity during the month of February.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

First-entry cars during the present travel year have increased 9.5 per cent over those of the same period last year. The operation of opening

the Mammoth-Cooke road each week-end and heavy travel on "Montana Day" are partly responsible for the increase.

The total increase in park visitors for the travel year to date is 67.3 per cent.

Note correction on the travel summary which is found at the back of this report.

600 - Protection

610 - Police Protection

Frank Allen and Homer Nichols were arrested by park rangers on February 8 on Pacific Creek, near Moran, Wyoming, after tracks of two men had been traced from a trapline inside the park to their cabin. They were brought to Mammoth by automobile where they entered pleas of guilty to a charge of trapping in the park. Both men were sentenced to sixty days in the Laramie County jail at Cheyenne, Wyoming, and assessed fines of $100.00 each. Fines were remitted by U. S. Commissioner before they were taken to Cheyenne, Wyoming by the U. S. Marshall.

620 - Fire Protection

No forest or building fires occurred during February.

630 - Accidents

The cars of Donald Frohlick of Bozeman, Montana and Clarence Barkley of Billings, Montana collided at Mammoth, resulting in minor damage to Frohlick's car.

900 - Miscellaneous

Post Office - Receipts for this month were a little below those for the corresponding month of last year which is due to the fact that there was no construction work going on in the park during the past two months.

Church Services - Episcopalian services were conducted by Reverend Lewis D. Smith, Episcopalian minister from Livingston, on February 19 and Lutheran services were conducted by Reverend Webster D. Clement of Livingston on February 27.

Hospital and Medical - There were 60 home and 130 office calls reported for the month of February.

C.C.C. - With the Company strength of both CCC Company YNP-1 and YNP-7 approximately 200, a decided increase in progress has been noted on all jobs during February. However, we have had a two weeks quarantine for measles which has retarded the progress on a few of our jobs.

the Mammoth-Cooke road each weekend and many travel on "Sunday" are partly responsible for the increase.

The total increase in park visitors for the travel year to date is 67.3 per cent.

Note correction on the travel summary which is found at the back of this report.

600 - Protection

610 - Police Protection

Frank Allen and Homer Nichols were arrested by park rangers on February 8 on Pacific Creek, near Moran, Wyoming, after tracks of two men had been traced from a trapline inside the park to their cabin. They were brought to Mammoth by automobile where they entered pleas of guilty to a charge of trapping in the park. Both men were sentenced to sixty days in the Laramie County jail at Cheyenne, Wyoming, and assessed fines of $100.00 each. Fines were remitted by U. S. Commissioner before they were taken to Cheyenne, Wyoming by the U. S. Marshall.

620 - Fire Protection

No forest or building fires occurred during February.

630 - Accidents

The cars of Donald Frohlich of Cheyenne, Montana and Clarence Wright of Billings, Montana collided at [illegible], resulting in [illegible] to Frohlich's car.

900 - Miscellaneous

Post Office - Receipts for this month were a little below those for the corresponding month of last year which is due to the fact that there was no construction work going on in the park during the past two months.

Church Services - Episcopalian services were conducted by Reverend Lewis D. Smith, Episcopalian minister from Livingston, on February 13 and Lutheran services were conducted by Reverend Webster L. Clement of Livingston on February 27.

Hospital and Medical - There were 60 home and 130 office calls reported for the month of February.

C.C.C. - With the Company strength of both 000 Company NP-1 and NP-7 approximately 200, a decided increase in progress has been noted on all jobs during February. However, we have had a two weeks quarantine for measles which has retarded the progress on a few of our jobs.

The lower road in the new Mammoth campground and a number of new campsites have been rough graded and a quantity of large rock has been hauled from the Gardiner pit to the new campground so that necessary protection will be available in the spring. The equipment in the Gardiner pit has been crushing gravel for the graveling of roads and campsites. The new car storage shed at Mammoth is about 90 per cent complete and should be ready for occupancy within the near future. Work on the uncompleted cottage area near the power house was retarded somewhat during the camp quarantine but should be completed within the next two weeks. Work at the spike camp at the Buffalo Ranch has consisted mainly of getting the camp in shape for occupancy, installing showers, lining mess hall, building root cellars and meat house. Work should start on the Buffalo Ranch water system, Job 246, early in March.

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On Friday and Saturday evenings of February 3 and 4, a three-act comedy entitled "Here Comes Charlie" was presented by a cast consisting of ten of the local thespians, under the sponsorship of the local Federal Employees Union. The play was well received by a large and appreciative audience each evening. The performance was given in the Mammoth canteen building.

A son was born to Park Ranger and Mrs. Wayne Alcorn on February 5 and to Mr. and Mrs. Lester C. Abbie on February 23 at the Park Hospital in Livingston. Mr. Abbie is employed as a truck driver in the park.

The regular monthly meeting of the Federal Employees' Union was held in the canteen on February 6.

Miss K. Mervine Fisher and Chief Clerk Keith P. Neilson were married in St. Paul, Minnesota on February 8. Mrs. Neilson has been employed the past several summers in the park as secretary to Mr. J. F. Haynes, President of Haynes, Inc. and is well known here.

The local Federal Employees' Union sponsored a Valentine dance in the Mammoth canteen on the evening of February 11. It was well attended and those present reported it a success.

J. W. Emmert,
Acting Superintendent.

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The lower road in the new Mammoth campground and a number of new campsites have been rough graded and a quantity of large rock has been moved from the Gardiner pit to the new campground as that necessary protection will be available in the spring. The equipment in the Gardiner pit has been crushing gravel for the gravelling of roads and campsites. The new cow storage shed at Mammoth is about 90 per cent complete and should be ready for occupancy within the near future. Work on the new concrete cottage area near the power house was resumed sometime during the campground, but should be completed within the next two weeks. Work at the cattle camp at the Buffalo Ranch has commenced mainly of repairing the camp to make it for occupancy, installing showers, living mess hall, building roads, milking and meat houses. Work should start on the Buffalo Ranch water [illegible] job 2Ld, early in March.

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On Friday and Saturday evenings of February 3 and 4, a three-act comedy entitled "More Comes Oftenfile" was presented by a cast consisting of ten of the local thespians, under the sponsorship of the Local Federal Employees Union. The play was well received by a large and appreciative audience each evening. The performances were given in the Mammoth eastern building.

A son was born to Park ranger and Mrs. Hayes Gibson on February 2 and to Mr. and Mrs. Lester O. Abbie on February 23 at the Park hospital in Livingston. Mr. Abbie is employed as a trench digger on the park.

The regular monthly meeting of the Federal Employees Union was held in the eastern on February 6.

Miss M. Merwine Fisher and Chief Clerk Robert E. Sullivan were married in St. Paul, Minnesota on February 2. Mrs. Sullivan has been employed the past several summers in the park as secretary to Mr. H. [illegible] Yellowstone Transportation Company, Inc. and is well known here.

The Local Federal Employees Union sponsored a talkie show in the Mammoth eastern on the evening of February 11. It was well attended and those present reported it a success.

E. W. Lemert,
Acting Superintendent.

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10-157
(July, 1929)

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone National Park for the month of February, 1939

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
PRIVATE TRANSPORTATION:						
Cars first entry, ...	267	2430	*179	*1269	1161	91.5
Cars reentry, ...	113	1286	*54	*928	358	38.6
Motorcycles,...						
Total motor vehicles, . . .	380	3716	*233	*2197	1519	69.1
Persons entering via motor vehicles, ...	1315	10819	*824	*6465	4354	67.3
Persons entering via other private transportation, . . .				18		
Total persons entering via private transportation, . .	1315	10819	*824	*6483	4336	66.9
OTHER TRANSPORTATION:						
Persons entering via stages,.			9	9	-9	-100.0
Persons entering via trains,.						
Persons entering otherwise, .						
Total other transportation,			9	9	-9	-100.0
GRAND TOTAL ALL VISITORS, . .	1315	10819	*833	*6492	4327	66.6

	This Year	Last Year	Increase Number	Increase Percent
Automobiles in public camps during month, ...				
Campers in public camps during month, ...				

*These figures were reported in error in the January, 1939, monthly report. This error has been rectified hereon.

10-160

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park. Month of February, 1939

	This Year	Last Year
Park revenue on hand beginning of month	$ -	$ -
Received	156.99	7,373.09
Total	156.99	7,373.09
Remitted	156.99	7,373.09
On hand close of month	-	-
Park revenues received this year to date	$345,072.58	
Park revenues received last year to date	422,312.01	
Decrease ~~Increase~~	$ 77,239.43	
Percent of decrease ~~increase~~	18.289	

U. S. GOVERNMENT PRINTING OFFICE 6—9393

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park. Month of _____, 193_

	This year	Last year
Park revenue on hand beginning of month	–	–
Received	[illegible]	[illegible]
Total	[illegible]	[illegible]
Remitted	[illegible]	[illegible]
On hand close of month	–	–
Park revenues received this year to date	[illegible]	
Park revenues received last year to date	[illegible]	
Increase / Decrease	[illegible]	
Percent of increase / decrease	[illegible]	

10-159
May 1931)
(99566)

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of February, 1939

	This Month				This Month Last Year			
	Appointed		Non-Appointed		Appointed		Non-Appointed	
Number of employees beginning of month	Reg.	91			Reg.	85		
	CCC	18	Reg.	8	CCC	20		9
Number of additions	Reg.	0						
	CCC	0		6	Reg.	1		7
Total	Reg.	91				106		16
	CCC	18		14				
Number of separations	Reg.	1				0		0
	CCC	0		2				
Number of employees close of month	Reg.	90			Reg.	86		
	CCC	18		12	CCC	20		16
Number of promotions during month	0				0			
Aggregate amount of annual leave taken	Reg.	61-5/8			Reg.	126-5/32		
	CCC	10-4/8		0	CCC	29-6/8		
Aggregate amount of sick leave taken	Reg.	21-4/8			Reg.	27-4/8		
	CCC	1		0	CCC	3-4/8		
Aggregate amount of leave without pay	Reg.	49			0			

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of [illegible] No. [illegible]

	This Month				This Month Last Year			
	Appointed		Non-Appointed		Appointed		Non-Appointed	
mber of employees beginning of month	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
mber of additions	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
mber of separations	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
mber of employees close of month	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
mber of promotions during month				0				0
gregate amount of annual leave [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
gregate amount of sick leave [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
gregate amount of leave without pay	[illegible]	[illegible]		0				

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC.*

Yellowstone National Park for the Month of February, 1939

	THIS MONTH	THIS TRAVEL YEAR TO DATE	THIS MONTH LAST YEAR	LAST TRAVEL YEAR TO DATE	INCREASE FOR TRAVEL YEAR	
					NUMBER	PERCENT
Current generated	113,500	904,500	91,900	785,300	119,200	15
Sold to park operators	555	61,583	550	62,890	- 1,307	- 2
Sold to others						
Sold ~~Furnished~~ to other governmental ageneies	740	7,062	870	1,828	5,234	286
Used by National Park Service, lost in transit, etc	112,205	835,855	90,480	720,582	115,273	15.9
Total current generated	113,500	904,500	91,900	785,300	119,200	15

Amount receivable from the sale of electricity, in Mammoth (1939) $ 36.30 (1938) $ 39.78

*Indicated by kw.-hr.

U. S. GOVERNMENT PRINTING OFFICE 6—9244

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC.*

Yellowstone ..... National Park for the Month of ..... 19..

	THIS MONTH	THIS TRAVEL YEAR TO DATE	THIS MONTH LAST YEAR	LAST TRAVEL YEAR TO DATE	AVERAGE FOR TRAVEL YEAR	
					NUMBER	PERCENT
urrent generated	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ld to park operators	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
ld to others						
Sold ~~retained~~ to other governmental agencies	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
sed by National Park Service, lost in transit, etc.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total current generated	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

mount receivable from the sale of electricity, ... $ [illegible]

*Indicated by kw.-hr.

U. S. GOVERNMENT PRINTING OFFICE 6—[illegible]

10-162

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of February, 1939

	This Month	This Month Last Year	Increase	Percent Increase
LOCAL BUSINESS				
Mammoth excluded				
Miles of circuit maintained, ...	462	600	-138	-23
No. of telephones connected, ...	274	253	- 21	- 8.3
No. of measured service calls, ...				
No. of other local calls, ...				
Total No. of local calls, ...				
Peak load in calls per day, ...				
Receipts from measured service calls. . .				
" " coin boxes, ...				
" " telephone rental, ...				
TOTAL RECEIPTS				
LONG DISTANCE BUSINESS				
No. Outbound calls, ...				
No. Inbound calls, ...				
TOTAL LONG DISTANCE CALLS				
Peak load in calls per day, ...				
Receipts from Long Distance business, . .				
TELEGRAPH BUSINESS				
Messages via Western Union, ...				
Messages via				
TOTAL MESSAGES				
Receipts from telegraph business, ...				
No. of money transfer messages, ...				
" " " " receipts, ...				
TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-				

10-313

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Monthly Report of
Minor Roads and Trails Projects

Yellowstone National Park
(Area)

As of February 28, 1939
(Date)

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

Proj. No.	Description of Project	Type of Work	Mileage of Proj.	% Complete	Appropriation Symbol	Amount Allotted	Amount Expended	Remarks
		No Minor Roads and Trails Projects active.						

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

February 10, 1939

CIRCULAR NO. 1:

Effective February 10, 1939, District Ranger W. Leon Evans will be temporarily assigned as assistant in the Chief Ranger's Office and until further notice will handle all routine business of this office.

J. W. Emmert
Acting Superintendent

Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming
February 6, 1939

MEMORANDUM FOR MONTANA NEWSPAPERS, KIWANIS, ROTARY, LIONS, AND COMMERCIAL CLUBS, AND CHAMBERS OF COMMERCE

Preparations are under way for the first winter "Montana Day" to be held in Yellowstone National Park. Set for Sunday, February 19, visitors to the park on that date will have an opportunity to view the park's wildlife at close range seeing elk, deer, antelope, mountain sheep and buffalo, while skiing enthusiasts will be afforded a chance to run the snow-covered slopes in the northern section of the wonderland. Many skiers are expected to come to the park on Saturday afternoon to avail themselves of the two-day outing.

The National Park Service has been keeping open all winter with snowplows the 55 miles of highway from Mammoth to Cooke so as to give Cooke residents an opportunity to get in and out from their winter abode and to receive their mail regularly. The opening of the road each week-end has afforded visitors an opportunity to come to the park and travel this section without difficulty. Photographers have found unusual shots of wildlife at close range.

The roads will be kept in good condition for travel for the "Montana Day" outing but motorists are advised to have chains for their cars and to put on chains at Gardiner before coming to the park. Rangers will patrol the highways to assist visitors and give information.

All of the facilities in the park, with the exception of the general store at Mammoth, are closed for the winter but visitors will find comfortable accommodations at Gardiner, the north entrance to the park, five miles from Mammoth Hot Springs, the park headquarters, where hotels, cabins, good eating places and gasoline filling stations are located.

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Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming
February 14, 1939

MEMORANDUM FOR MONTANA NEWSPAPERS, KIWANIS, ROTARY, LIONS, AND COMMERCIAL CLUBS, AND CHAMBERS OF COMMERCE

Intimate views of big game animals in their snowy mid-winter environment will be afforded Montana residents Sunday when the northern interior of Yellowstone National Park is made accessible by automobile for a distance of 55 miles.

Sunday, February 19, will be known as "Montana Day" and park officials expect several hundred visitors to avail themselves of this unusual opportunity to reach the heart of the big game range over good roads maintained by modern snow removal equipment.

Along the 55 miles of road which will be opened Sunday from Mammoth Hot Springs to Cooke City are located many snow-covered slopes which afford excellent skiing. Gentle slopes for the amateur and steep hillsides for the skillful and daring rider are available at a number of locations along the way.

In anticipation of Sunday's visitors, the Gardiner Commercial Club has made preparations to serve free sandwiches and coffee out in the park interior to all who make the trip. This service is being undertaken because no housing or eating facilities are available within this section of the park during the winter period.

Until this year the northern section of Yellowstone National Park has been completely snow-bound during mid-winter. The National Park Service is now maintaining the road from the north entrance, at Gardiner, to Cooke City, Montana, affording residents of this latter community all-

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winter accessibility and regular weekly mail service. Two large rotary snowplows are being used for clearing the road each week. Special effort is made to have this road in good condition for week-end travel and unless unusually severe wind and snow storms occur visitors will find this route an easy and delightful automobile drive. Because the road surface will be covered with a layer of hard-packed snow, however, travelers are advised to put on tire chains at Gardiner, the north entrance, for added comfort and safety during the park trip.

Wild animals of many kinds, including buffalo, elk, deer, bighorn and antelope, are wintering in this area and all of these animals can usually be seen at close distances from the road. Unusual opportunity for photographing these big game animals awaits the alert and patient camera enthusiast.

For those who desire to stop over night Saturday and enjoy a full day Sunday of skiing or observing wildlife in the park, hotels, cabins, stores, filling stations and eating places are available at Gardiner on the northern boundary of the park. A general store, where a full line of groceries may be obtained, is also located at Mammoth Hot Springs.

Park rangers will be on duty Sunday at the north entrance, Mammoth Hot Springs and along the road to Cooke City to assist and direct visitors. A ranger patrol will be on the road to assist motorists.

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

MEMORANDUM FOR THE PRESS:
Release ON RECEIPT

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Yellowstone Park, Wyoming, February 00: Yellowstone National Park's American elk or wapiti are scattered in thirty-six states of the United States, the District of Columbia, Canada and South America, according to a compilation just completed by members of the park's protection department.

Starting in 1892, two years before the law protecting the park's wildlife was enacted, and extending to the close of 1938, four thousand nine hundred and fourteen elk have been sent from the park to zoos, zoological gardens, game preserves, private estates, Indian reservations, parks and forest areas for exhibition and propagation purposes. Live shipments under way this winter to sportsmen's organizations for planting in western Montana will bring the figure well over the five thousand mark of elk supplied from this great wildlife sanctuary.

Although all but twelve of the states have received live elk shipment from the park most of the distant shipments have been made to supply zoos with animals for exhibition purposes. At least ten states, some of which lie in the eastern part of the country, have restocked sections of their mountainous areas and have protected these animals until well-established state herds have been developed.

Montana ranks first in the states receiving elk from the park, with 1207 animals, Idaho is second with 675, Washington is third with 462, then Colorado with 268, Arizona with 258, Virginia with 256, South Dakota with 241, Utah with 177, Pennsylvania with 170 and New York with 132. Arkansas,

more

Delaware, Iowa, Kansas, Connecticut, Maine, Maryland, New Hampshire, New Jersey, Rhode Island and Vermont are the states lacking Yellowstone wapiti. Besides the shipments made directly by park authorities, the Montana State Fish and Game Department prior to 1916, the year the National Park Service was created in the Department of the Interior, trapped several hundred animals outside the park from the northern Yellowstone herd and shipped them to various parts of Montana for propagation purposes.

Of the foreign shipments Canada received 363 elk, the nucleus of some of its present large herds, two of the animals having been sent to Vancouver, B. C. in 1907, 63 to Jasper Park in 1917, 200 to Rocky Mountain Park in 192[illegible] and 98 to Jasper Park the same year. These animals have thrived in their northern environment and the American elk may be seen today in large numbers by visitors to several of Canada's national parks. Two elk were shipped to the Buenos Aires Zoological Gardens in Argentina in 1937 and one cow in 19[illegible]. Due to the death of the latter another cow is now enroute to round out the family, requiring thirty-three days in transit. Thirty-one elk have been furnished the National Zoological Park in the nation's capital between 188[illegible] and 1917. Glacier National Park received thirty-one animals from the Yellowstone herd in 1912, Platt National Park received three in 1919, two in 192[illegible] and one the following year and Wind Cave National Park in South Dakota received twenty-five in 1916, while the National Bison Range near Moisse, Montana received twenty-five in 1916. The Crow Indian reservation near Hardin, Montana was furnished one hundred and fifty elk in 1935 and three hundred and eighty-four the following year to establish a herd at that agency while the Pine Ridge reservation in South Dakota received eleven elk in 1936 for starting a herd there.

Despite the more than five thousand elk taken from the Yellowstone's

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northern herd through live shipments since 1892 and 8,691 taken by hunters outside the park during the past four years, a census taken on March 1-3, 1938 resulted in 10,976 elk being actually counted in the northern herd by twenty-nine observers, representing the United States Forest Service, the Montana State Fish and Game Commission and the National Park Service. While no count was made of the Gallatin herd on the west side of the park during the past year it is estimated that there are some 2600 of the animals in that herd. Counts by park rangers also showed 652 elk wintering in other areas of the park. Hunters during the past season took practically three thousand elk from the northern herd while live shipments will reduce it by 285 more and some five hundred will be lost through deaths by natural causes.

Even with the enforcement of an extensive reduction program, due to insufficient winter range for the park's wildlife, it is necessary to secure additional winter range to properly take care of the country's second largest elk herd. Legislation has been introduced in Congress providing for the release of money appropriated in 1928, which had to be matched by private funds, for purchasing lands north of the park between the north line and Yankee Jim Canyon to be added to the Absaroka and Gallatin National Forests for more winter grazing for these animals, as well as a large portion of the park's deer, antelope and mountain sheep. Unless this legislation is enacted it may become necessary to invoke a more drastic action by reducing the herd to the point where it can subsist on the available range.

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JJ

orm No. 1030–Met'l.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

TATION YELLOWSTONE PARK, WYO. MONTH FEBRUARY, 1939

DATE	Temperature, °F. Maximum	Minimum	Mean	Normal mean	Relative humidity (Percentage) A. M.*	Local noon	P. M.*	Precipitation Total (inches)	Snowfall (inches), p. m. to p. m.* (unmelted)	Wind Prevailing direction	Highest velocity	Direction	Weather Percentage of possible sunshine	Character of day (a)	Date River stage (feet)
1	17	1	9	19	82	53	67	T	T	SE	12	N	72	Pt.Cldy	1
2	13	-2	6	19	79	60	63	.01	0.1	S	20	SW	39	Cloudy	2
3	19	8	14	19	61	56	59	T	T	S	16	SW	39	Cloudy	3
4	25	10	18	19	77	59	59	T	T	SW	16	SW	76	Pt.Cldy	4
5	22	13	18	19	76	70	53	.03	0.5	S	21	SW	28	Pt.Cldy	5
6	28	7	18	19	60	70	75	.12	1.4	S	24	S	22	Cloudy	6
7	7	-17	-5	19	75	73	58	.15	1.4	N	9	NE	22	Cloudy	7
8	-17	-26	-22	20	64	76	60	.14	3.1	N	10	N	27	Cloudy	8
9	4	-26	-11	20	74	86	69	T	0.3	D.I.	21	W	72	Pt.Cldy	9
10	15	0	8	20	53	60	61	T	T	SW	19	SW	59	Pt.Cldy	10
11	21	4	12	20	66	63	72	.04	T	SW	22	SW	30	Cloudy	11
12	28	16	22	20	82	73	68	.07	1.8	SW	32	SW	22	Cloudy	12
13	27	11	19	20	73	51	58	T	T	SW	19	SW	49	Cloudy	13
14	25	16	20	21	75	63	67	T	T	S	16	SW	0	Cloudy	14
15	30	13	22	21	80	89	78	.16	2.1	N	27	N	7	Cloudy	15
16	24	-5	10	21	70	81	48	0	T	SW	17	SW	100	Clear	16
17	32	13	22	21	72	64	63	0	0	SW	15	SW	60	Cloudy	17
18	35	15	25	21	82	50	58	.08	0	S	25	SW	82	Pt.Cldy	18
19	17	-3	7	22	98	82	62	.01	1.5	N	18	E	93	Pt.Cldy	19
20	20	-4	8	22	69	85	64	T	T	S	11	N	72	Pt.Cldy	20
21	21	-1	10	22	71	86	56	T	T	SW	19	SW	100	Pt.Cldy	21
22	34	7	20	22	70	55	45	0	0	SW	18	SW	100	Clear	22
23	36	7	22	22	72	50	54	0	0	S	9	S	100	Pt.Cldy	23
24	35	17	26	22	81	62	64	.01	0.3	W	16	N	67	Cloudy	24
25	27	16	22	22	86	63	63	.06	0.5	S	19	SW	41	Cloudy	25
26	25	2	12	22	84	62	60	.05	1.2	N	24	NW	75	Pt.Cldy	26
27	20	0	10	22	66	53	60	T	T	SW	13	SW	65	Cloudy	27
28	26	1	14	23	80	66	67	.01	0.2	W	13	NW	60	Pt.Cldy	28
29															
30															
31															
Mean	21.9	3.3	12.6		74	66	62	b 0.94	b 14.4	SW	c 32	SW	57		
Normal	30.5	10.9	20.7		78	65	67	0.61	12.0	S			52		

* 5:30 a. m. and p. m., 105th meridian time. T indicates a trace of precipitation. (a) Sunrise to sunset. (b) Total. (c) Monthly.

D.I.= Direct Indeterminate or calm.

SUMMARY

BAROMETRIC PRESSURE

Monthly mean 30.14
Highest 30.76, date 16
Lowest 29.46, date 6

TEMPERATURE

Highest 36, date 23
Lowest -26, date 8
Extremes this month since 1904; highest 55 lowest -40
Average daily departure 8.1°
Average daily departure since January 1, -1.8°
Total degree days 1466

PRECIPITATION

Greatest amount in 24 hours 0.23, date 7-8
Departure from normal this month +0.33
Accumulated departure since Jan. 1st. +0.79
Snowfall, greatest 24-hour amount 3/1, date 7-8;
snow on ground on 15th 7.1 and at end of month 5.9

WIND

Prevailing direction SW, average hourly velocity 9.9
Highest wind velocity this month since 1904
41 miles from NW, on 12, in 1923

WEATHER

Number of days clear 2 partly cloudy 13 cloudy 14 with measurable precipitation (0.01 inch, or more) 14

MISCELLANEOUS PHENOMENA—DATES OF

Hail 0
Halos, solar 1,4,23,27; halos, lunar 3
Fog, light 0; fog, dense 0
Frost, light --, heavy --, killing† --
Sleet 0
Thunderstorms 0
Duststorms 0

†Frosts not recorded in autumn after first "killing", except in Florida and along the immediate coast of the Gulf of Mexico.

MEAN TEMPERATURE AND TOTAL PRECIPITATION THIS MONTH IN—

1871		83		95		07	26.8	19	19.2	31	25.2	0.25
1872		84		96		08	23.2	20	21.4	32	21.2	0.70
1873		85		97		09	21.0	21	24.4	33	10.8	0.76
1874		86		98		10	15.2	22	18.9	34	28.8	0.24
1875		87		99		11	14.6	23	16.4	35	24.2	0.48
1876		88		00		12	22.4	24	26.8	36	10.9	1.60
1877		89		01		13	10.3	25	27.6	37	17.8	1.30
1878		90		02		14	20.1	26	27.1	38	24.0	0.96
1879		91		03		15	26.4	27	22.9	39	12.6	0.94
1880		92		04	23.8	16	24.4	28	19.8	40		
1881		93		05	17.0	17	19.5	29	13.7	41		
1882		94		06	23.8	18	18.2	30	27.6	0.69	42	

Charles L. Howard.
75-3-1-39

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