





A very faint, blurry background image of a classical building with four prominent columns, possibly a temple or a government building, rendered in a light beige color.

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10-23
(May, 1929)

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

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FILE No. 143

MONTHLY REPORT

FOR

JANUARY, 1933

4636

IMPORTANT

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HORACE M. ALBRIGHT,
Director.

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

OFFICE OF THE SUPERINTENDENT

January 2, 1927.

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

Mr. R. L. Foster:

Following is the monthly report of activities for Yellowstone National Park for the month of January, 1927.

000 - General

O1 - January, 1927, will long be remembered by park visitors as the month of the heavy wind. There was a fairly steady wind all month, with three very violent winds which blew the snow from the roofs and drifts in many points in the park. This was part of the winter's drifts, the main removal of the heavy snow being in November and December. It was necessary to close the main stage road in the park during the month in order to keep open the side roads which were used to bring supplies in and out. Although this road - the 14th Street Road - the park could have been maintained on our other available roads, we did not have funds for it. With the stage, there was no time factor. We wanted what we could not travel about without or negotiate the good paths and trails further. The placing of our national signs forced us to use the 14th Street Road, however in cutting down the large drifts which are usually found at some of these locations.

The epidemic of flu was not so bad during January as during the previous month, although with a few of our people affected from the disease. By the end of the month the epidemic had practically subsided.

000 - General weather conditions

(General description of weather conditions will be found at the back of this report.)

O 1 - In the park

High winds prevailed nearly all month with generally cold and clear every day. The road from Mammoth to Tower falls was closed for the safety of public made byarrison and men, contractors, on January 10 and was still open at the end of the month. It is expected that this road will be closed by drifting snow very shortly. Due to the high winds, it was necessary to keep the road over and beneath open by using the snowplow.

At the Bechler River Ranger station during the month of January a total of 189.5 inches of snowfall was recorded. This was 140 inches more than fell during January last year. The snow on the ground at this station at the end of the month was 80 inches.

It is interesting to note that on the night of January 19 thirty inches of snow fell overnight at the south iverside cabin and again on January 20 thirty-one inches fell overnight on the continental divide between Old Faithful and Soda Butte.

The following tables give comparative snow depths for Yellowstone National Park, according to Dr. Ingalls, at the close of January 31, 1925 and 1930. (now all the are given in inches.)

<u>Yellowstone River stations</u>	<u>1925</u>	<u>1930</u>	<u>1931</u>	<u>1932</u>
Buffalo Ranch	—	12	16	—
Canyon	18	33	38	—
Cooke	17	32	33	—
Cold Creek	19	34	34	—
Emmett	9	21	10	—
Upper Gough Creek	19	21	24	—
Lower Gough Creek	19	24	24	—
Tower Falls	14	34	20	—
Hellroaring	8	22	28	—
Soda Butte	15	22	14	—
Therefore	12	20	23	—
Gill Creek	16	20	26	—
Upper Gill Creek	—	21	48	20
Lake	11	29	31	20
Babin Creek	14	26	17	8
Park Joint	—	26	16	12
Cache Creek	24	—	46	27
Crystal Springs	11	30	30	—

Madison River stations

Old Faithful	14	41	48	31
Fountain	14	18	36	—
Madison Junction	16	20	24	17
Riverside	16	36	36	16
Berries	10	30	40	—
Grayling Creek	—	21	24	—

1. *Journal of the American Revolution*, Vol. 1, No. 1, April 1962.

2. *Journal of the American Revolution*, Vol. 1, No. 2, June 1962.

3. *Journal of the American Revolution*, Vol. 1, No. 3, August 1962.

4. *Journal of the American Revolution*, Vol. 1, No. 4, October 1962.

5. *Journal of the American Revolution*, Vol. 1, No. 5, December 1962.

6. *Journal of the American Revolution*, Vol. 1, No. 6, February 1963.

7. *Journal of the American Revolution*, Vol. 1, No. 7, April 1963.

8. *Journal of the American Revolution*, Vol. 1, No. 8, June 1963.

9. *Journal of the American Revolution*, Vol. 1, No. 9, August 1963.

10. *Journal of the American Revolution*, Vol. 1, No. 10, October 1963.

11. *Journal of the American Revolution*, Vol. 1, No. 11, December 1963.

12. *Journal of the American Revolution*, Vol. 1, No. 12, February 1964.

13. *Journal of the American Revolution*, Vol. 1, No. 13, April 1964.

14. *Journal of the American Revolution*, Vol. 1, No. 14, June 1964.

15. *Journal of the American Revolution*, Vol. 1, No. 15, August 1964.

16. *Journal of the American Revolution*, Vol. 1, No. 16, October 1964.

17. *Journal of the American Revolution*, Vol. 1, No. 17, December 1964.

18. *Journal of the American Revolution*, Vol. 1, No. 18, February 1965.

19. *Journal of the American Revolution*, Vol. 1, No. 19, April 1965.

20. *Journal of the American Revolution*, Vol. 1, No. 20, June 1965.

21. *Journal of the American Revolution*, Vol. 1, No. 21, August 1965.

22. *Journal of the American Revolution*, Vol. 1, No. 22, October 1965.

23. *Journal of the American Revolution*, Vol. 1, No. 23, December 1965.

24. *Journal of the American Revolution*, Vol. 1, No. 24, February 1966.

25. *Journal of the American Revolution*, Vol. 1, No. 25, April 1966.

26. *Journal of the American Revolution*, Vol. 1, No. 26, June 1966.

27. *Journal of the American Revolution*, Vol. 1, No. 27, August 1966.

28. *Journal of the American Revolution*, Vol. 1, No. 28, October 1966.

29. *Journal of the American Revolution*, Vol. 1, No. 29, December 1966.

30. *Journal of the American Revolution*, Vol. 1, No. 30, February 1967.

31. *Journal of the American Revolution*, Vol. 1, No. 31, April 1967.

32. *Journal of the American Revolution*, Vol. 1, No. 32, June 1967.

33. *Journal of the American Revolution*, Vol. 1, No. 33, August 1967.

34. *Journal of the American Revolution*, Vol. 1, No. 34, October 1967.

35. *Journal of the American Revolution*, Vol. 1, No. 35, December 1967.

36. *Journal of the American Revolution*, Vol. 1, No. 36, February 1968.

37. *Journal of the American Revolution*, Vol. 1, No. 37, April 1968.

Snake River Drainage

	1931	1932	1933	1934
Two Ocean Lake	40	34	32	31
Snake River	23	33	31	28
Snake River (7 M.L.)	30	72	90	77
Pink Creek	--	58	62	61
Fox Creek	26	34	32	30
Aster Creek	22	60	74	60
Bachler River	32	62	66	60
Cascade	44	71	65	57
Boundary Creek	--	59	65	54
South River Idaho	23	60	72	53

Clark Fork DrainageClark Fork

	1931	1932	1933	1934
Clark Fork	18	34	37	17
Frenchman	--	--	--	44
Clearwater	--	--	--	25

Chenoweth River DrainageChenoweth R. S.

	1931	1932	1933	1934
Chenoweth R. S.	1	20	30	21
Frenchman R. S.	--	--	--	20

OBS - Approach to the Park

The south, west and Gallatin approach roads are closed due to snow. The Livingston-Gardiner road was in good condition the entire month. The road from Cody to the Sylvan Pass Ranger station is open except for the last nine miles to the park boundary line. Another light, heavy snowfall will close this road for a distance of sixteen miles from the ranger station.

OBS - In Early at tea

High winds, snow and cold weather were prevalent in the surrounding states during January.

100 - Administration110 - Status of Park

Superintendent Gill remained in California on furlough until about the middle of January, after which he began an inspection of proposed parks and monuments which required the remainder of the month. He is due to return to his winter headquarters office in Denver about the middle of February and we will arrange for a stenographer to be there at that time to handle his work.

	1990	1991	1992	1993	1994
1. Total population	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
2. Population aged 15 years and over	800,000	800,000	800,000	800,000	800,000
3. Population aged 15 years and over, by sex					
Male	400,000	400,000	400,000	400,000	400,000
Female	400,000	400,000	400,000	400,000	400,000
4. Population aged 15 years and over, by marital status					
Married	300,000	300,000	300,000	300,000	300,000
Divorced	100,000	100,000	100,000	100,000	100,000
Widowed	100,000	100,000	100,000	100,000	100,000
Never married	300,000	300,000	300,000	300,000	300,000
5. Population aged 15 years and over, by education level					
Primary school	200,000	200,000	200,000	200,000	200,000
Secondary school	300,000	300,000	300,000	300,000	300,000
Higher	500,000	500,000	500,000	500,000	500,000
6. Population aged 15 years and over, by economic activity					
Employed	600,000	600,000	600,000	600,000	600,000
Unemployed	100,000	100,000	100,000	100,000	100,000
Not in labor force	300,000	300,000	300,000	300,000	300,000
7. Population aged 15 years and over, by gender and marital status					
Married men	200,000	200,000	200,000	200,000	200,000
Married women	100,000	100,000	100,000	100,000	100,000
Divorced men	50,000	50,000	50,000	50,000	50,000
Divorced women	50,000	50,000	50,000	50,000	50,000
Widowed men	50,000	50,000	50,000	50,000	50,000
Widowed women	50,000	50,000	50,000	50,000	50,000
Never married men	100,000	100,000	100,000	100,000	100,000
Never married women	200,000	200,000	200,000	200,000	200,000
8. Population aged 15 years and over, by gender and education level					
Primary school men	100,000	100,000	100,000	100,000	100,000
Primary school women	100,000	100,000	100,000	100,000	100,000
Secondary school men	200,000	200,000	200,000	200,000	200,000
Secondary school women	200,000	200,000	200,000	200,000	200,000
Higher men	300,000	300,000	300,000	300,000	300,000
Higher women	300,000	300,000	300,000	300,000	300,000
9. Population aged 15 years and over, by gender and economic activity					
Employed men	300,000	300,000	300,000	300,000	300,000
Employed women	300,000	300,000	300,000	300,000	300,000
Unemployed men	50,000	50,000	50,000	50,000	50,000
Unemployed women	50,000	50,000	50,000	50,000	50,000
Not in labor force men	150,000	150,000	150,000	150,000	150,000
Not in labor force women	150,000	150,000	150,000	150,000	150,000
10. Population aged 15 years and over, by gender and age group					
15-24 years men	50,000	50,000	50,000	50,000	50,000
15-24 years women	50,000	50,000	50,000	50,000	50,000
25-34 years men	100,000	100,000	100,000	100,000	100,000
25-34 years women	100,000	100,000	100,000	100,000	100,000
35-44 years men	100,000	100,000	100,000	100,000	100,000
35-44 years women	100,000	100,000	100,000	100,000	100,000
45-54 years men	100,000	100,000	100,000	100,000	100,000
45-54 years women	100,000	100,000	100,000	100,000	100,000
55-64 years men	100,000	100,000	100,000	100,000	100,000
55-64 years women	100,000	100,000	100,000	100,000	100,000
65 years and over men	50,000	50,000	50,000	50,000	50,000
65 years and over women	50,000	50,000	50,000	50,000	50,000

Assistant Superintendent Awards was still unprinted due to public absence.

Very little furlough leave was taken during the month, although a number of employees were absent for a day or two at a time due to illness. Practically all work was kept current.

The temporary services of Mrs. Viola Hutchinson were invited at the close of January 14 and Miss Verna L. Lee entered on duty in her position on January 16. The position (No. 8) has again been made permanent by residential proclamation.

The necessary papers were sent in during the month regarding the appointment of Edwin A. Evans to position No. 18 vacated by the resignation of Clark Miriam Rankin Milton. Residential authority was received to fill this position permanently.

120 - Park Inspections (v)

121 - Acting Superintendent

Acting Superintendent - wards made the usual inspections of activities around headquarters and made trips outside the park as follows:

January 5 - To Livingston with Morris, Jeffs and Mayley to attend the funeral of the mother of L. J. Flint. Returned to head-quarters for night.

7 - To Livingston in afternoon; returned to head-quarters afternoon of January 9. Attended Rotary luncheon January 9.

10 - To Billings, Montana, with Morris, Jeffs and Mayley to attend the meeting of the Montana Mountain Association which was held on January 10 and 11. Attended the Rotary luncheon on January 11, returned to head-quarters the forenoon of the 12th.

13 - To Livingston, leaving on the 10th for Missoula, Montana, to attend the Regional Federal Forest Protection Board meeting; on 17th conferred with Forest Service officials on park matters, attended the Lincoln Room luncheon and returned on the afternoon train to Livingston; spent 18th in Livingston attending to park matters; attended monthly meeting of the American Legion Post in the evening; returned to head-quarters at noon on the 19th.

21 - To Livingston, returning the following day.

27 - To Livingston, returning the same evening.

120 - Other Governmental Officers

C. J. Capes, in charge of the Bureau of Public Roads activities in Yellowstone Park, arrived from Denver on the 25th and made an inspection of some of the Bureau's work at Tower Falls. He departed via Gardiner on the 31st.

Kenneth F. Neeson, U. S. Game Director, Billings, Montana, arrived in the park via Gardiner on the 30th for a ski trip through the park to look over game conditions.

140 - Labor Situation

The contractor on the Golden Gate job continued operations throughout the month, which provided employment for a number of men residing in Gardiner and Livingston and aided considerably in the relief of a distressing situation in both of these communities. Our own operations were performed with the minimum of personnel, consisting almost entirely of permanent employees. We have received an unusual number of applications for employment and it appears as if our employment situation will be extremely serious next summer with a decrease of appropriations and more vanishing employment than in previous years.

150 - Equipment and Supplies

Five carloads of soft coal, one carload of hard coal and one carload of fuel oil were received in January. A shipment of pipe and ship's chocks and hand operated gas pumps were also received during the month. Commissary activities were largely confined to inventory work and rearrangement of supplies.

160 - Status of Litigated Lands

No attempts were made during the month to purchase the private lands in the section added to the park by Presidential proclamation of October, 1932.

During the month we received a copy of the opinion from the solicitor permitting the closing of this new park area to hunting, which opinion will be of extreme value to us in our game management. The opinion was dated December 27, 1932.

On January 9 we received word from our Washington office that the assistant secretary, on January 4, 1933, accepted the deed dated October 14, 1932, excepting 36.2 acres of land from the Game Reservation Ranch property. This is the land occupied by Albert Horne, over which there was considerable controversy.

the first time, and the first time I have seen it, and I am
not able to identify it. It is a small, pale, yellowish-green
leafy plant, about 12 inches tall, with a few small flowers
at the top. I have never seen anything like it before.
I am sending a specimen to the University of Michigan
herbarium for identification. If you have any information
about this plant, please let me know. Thank you.

170 - Maps, Maps and surveys

Engineering activities consisted almost entirely of office work in connection with working plans and estimates. One map, relative to additions to the north boundary of the park, was prepared for the ranger department and a map of the Morris thermal area was partially prepared for the naturalist division. A study of snow depths on the proposed high line Gardiner-Crowfoot road was started, but indications of continued and heavier snowfall caused it to be abandoned until the following month.

180 - Circulars, Almanacs, publicity bulletins, etc.

No circulars or future notes were issued during the month. The results from a questionnaire sent out to those on the mailing list for future notes showed that there were not a sufficient number willing to pay for this publication to make it profitable in event a charge was to be made, and it has been decided to continue future notes as a free publication and retain the mailing list at about seven or eight hundred. However, an organization was formed to help build up the Yellowstone Library and to fund fund received from the sale of publications, in conjunction with instructions from Livingston.

Three special stories on the park were furnished to the Associated Press in Helena and the United Press in Butte for national distribution, while several other articles were furnished to the Livingston papers. A 240 word article on the park for the *Geo. Geographic Monthly* was required and sent in for future publication, together with a number of photographs to illustrate it. Quite a number of photo cards have been sent out to newspapers, writers, etc., for publicity purposes.

Assistant to the superintendent Joffe showed five rolls of 16 mm. motion pictures of park wild life before the Montana Veterans' Association in Helena on January 10, to about 300 veterans and employees of the Fort Harrison Veterans' Hospital near Helena on January 11, and to about 100 members of the Livingston Post of the American Legion on the 18th. These pictures were very well received and several requests were forthcoming for future showings of the pictures.

200 - Maintenance, Improvements and new construction

210 - Maintenance

Maintenance activities were confined to snow removal, exceptionally high winds and constant snow flurries making it necessary to clear the roads around headquarters approximately every other day.

and all other members of the family, and the author wishes to thank them for their help and support.

220 - Improvements

Vehicles - During the month of January, there were required twenty trucks of varying sizes and one passenger car. In addition to our own vehicles, several Bureau of Public Roads trucks were kept in repair and operation in connection with the Bureau of Public Roads' contract in progress.

The Dodge two-ton truck was considerably damaged in a fire at Fairbank. This truck will be condemned and used for parts on like trucks, as it is more economical to do this than to buy replacement parts for it. The details of this fire and damage to truck are contained in a separate report.

Jan 10

Besides our usual repair work, the remodeling and installing of our stock room has been completed and now we have an up-to-date store room with all stock under lock and key. One man in the garage has been utilized as parts man, and he also keeps the cost books of the garage. This employee also works part time in the garage on other work. An inventory of all parts was made the first week in January and the cost book balanced as of January 1, 1928.

Our cost keeping system now combines all of the essentials of the system as recommended by Field Headquarters and is practically the same system which we have had in effect in the Fairbanks garage for over a year and a half.

The Master Mechanic was busy a few days during the month in operating the Sno-go snow-plow on the roads and streets at Fairbank and in Fairbanks in keeping them free of drifting snow.

Electrical Department - Chief Electrician Mr. Sale carried on all of the maintenance work in this department during the month. The power plant was operated as usual with three operators on duty. Electrician Mr. Morris was on leave from January 18 to noon of the 30th.

The maintenance work in this department consisted principally of minor repairs and changes in telephone and electrical wiring and street lighting. As there are more than fifty buildings at Fairbank, Mr. Sale was kept rather busy. A considerable number of the lights on the streets of the park grounds have been eliminated during the winter in order to hold down our electrical consumption.

All field telephones (for fire equipment) were inspected and repaired and are now ready for use. Mr. Sale also spent some time connecting up all of the thermostats on electrical boiler controls to the two new boilers in the bachelor building. The boilers are now in use and are working very well.

Painting Department - During January the work of this department was carried on entirely by Master Painter Sampkin. The work consisted of minor painting jobs in buildings at Fairbanks.

the same time, the author has been able to make a number of observations which will be of interest to the student of the history of the language. In the first place, it is evident that the language has undergone a considerable change since the time of the original compilation. This is particularly true in the case of the grammar, where there are many new words and forms introduced, and some old ones have disappeared. In the second place, the language has become more refined and polished, as evidenced by the increased use of literary language and the greater precision of expression. In the third place, the language has become more widespread, as evidenced by the increased use of the vernacular in all walks of life. In the fourth place, the language has become more standardized, as evidenced by the increased use of the standard form of the language in all official documents and publications.

Carpentry Department - Lester Carpenter and his son, W.C. Jr., were the only two working in this department during the month of January.

No new construction was in progress and ordinary maintenance of buildings was carried on. With the fifty odd buildings to keep in repair at Mooth, they were kept busy with this class of work. This work consisted of repairing doors, windows, laying a new floor in a room, painting, putting up shelves, etc.

Lester Carpenter Bowman was on sick leave during the month of January.

Sanitation Department - Maintained and operated the water and sewer systems, refrigerating plants, heating plants, in the piping systems, juniper work, hauled garbage, etc. One chlorine type sterilizing machine was operated. An average of nine pounds of chlorine gas was put into the sewage every twenty-four hours and tests for residual chlorine were made daily.

The new heating plant for the bachelor building, which heats three buildings, was put in operation January 16 and is fired with oil. All piping was completed and steam turned on, the work being ninety-eight per cent complete except for the steam mains in the boiler room which will be covered with asbestos covering and painted.

330 Non Construction

No force account construction road projects were active during the month.

Contractors on the Gold Mine project continued work on the tunnel section with a small crew, but were forced to close down several times for a day or two because of too severe cold or snow storms.

The new heating plant for the bachelor building, which heats three buildings (one a duplex), and for which funds were allotted in the 1932 fiscal year appropriations, was put in operation on January 16 and is working very satisfactorily. This plant is fired with oil. The work is practically complete except for the steam mains in the boiler room which will be covered with asbestos and painted.

Due to the impounding of ten per cent of these funds, we did not complete all we had originally planned, such as new radiators, etc., but did complete installing the new furnace and installed underground steam mains to the other two buildings.

330 - Activities of other Agencies in the Park

319 - Public Service Contractors

The general store at Mooth was kept open during the entire month to

and the other two were also present. The first was a small, dark brown, oval-shaped seed, which had a thin, yellowish-brown skin. The second was a larger, light brown, oval-shaped seed, which had a thin, yellowish-brown skin. The third was a small, dark brown, oval-shaped seed, which had a thin, yellowish-brown skin.

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takes care of local residents. The present owner, W. H. Clegg, is rendering unusually fine service and adds extremely greatly to the welfare of our people. He stores his ranch with a fine supply of green vegetation, the purchase of which is being handled by Mr. Major in California, and this fine service has been much appreciated by the local residents who have just now been unable to purchase such green stuff in the open market the winter months.

400 - Flora, Fauna and Natural Resources

410 - Ranger, Naturalist and Guide Service

The usual patrols were made by the protection department for the observation and protection of the park wild life during the past month. Several of the rangers were on duty at the Buffalo Ranch assisting in making the buffalo calf roundup.

Chief Ranger Dogley and two of the assistants, George Miller and Fred Johnston were on duty at the north during the month. Assistant Chief Ranger Lassue was at the Buffalo Ranch from January 8 to 10, inclusive, and spent the balance of the month at the south on game matters. Mr. Major Harry Kirschbaum went to the Buffalo Ranch on January 16 to assist with the buffalo feeding.

Assistant Chief Miller was engaged on general office matters and Assistant Johnston was engaged on forest and insect problems at the north headquarters.

Chief Ranger Dogley was in Livingston on January 6 on matters pertaining to the northern elk range. Also, in company with Acting Superintendent Edwards and Assistant to the Superintendent Coffey, he was in Helena the afternoon of the tenth for a legislative meeting. Dogley left Billings on January 10 and returned January 12.

Beginning on January 17 and returning January 31, the Chief Ranger made an inspection on horseback of the northern section of the park, making visits to Gardiner, Hellroarin', Lough Creek, the Buffalo Ranch and some lakes.

400 - Library Service

Park Naturalist Major spent the first two weeks of the month lecturing and interviewing applicants for ranger-naturalist positions. Lectures were given to the Lions' Club at Boulder, Colorado, the Baptist Church, the Boy Scouts, the Geology Club at the University of Colorado and to the High Society in Larimer, Oregon.

Plans for a library room were made by Mr. Edwards and Mr. Major. This room is to be in the basement of the new school building, and work will begin at

of the country and the world. In this way
we can help to bring about a better understanding
of our own country and its people, and to
make the world a better place for all.

International Relations and Globalization

Today, we live in a globalized world. We are more interconnected than ever,
through international trade and travel, through communication technologies,
and through political alliances and coalitions.

But we must also remember that our local communities remain
important. Local governments, schools, and families are the cornerstone of our society.
Local government is where we can have the most direct impact on our
community, and where we can make the most significant changes.

Conclusion

In conclusion, our country and the world are interconnected.
We must work together to build a better future for everyone.

Local government is where we can have the most direct impact on
our community. Local government is where we can make the most significant changes.
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Local government is where we can have the most direct impact on our community.
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Local government is where we can have the most significant changes.

We must work together to build a better future for everyone.
Local government is where we can have the most direct impact on our community.
Local government is where we can have the most significant changes.

ence. Dr. T. C. Henry Lib., Library of the University of Colorado, offered to assign classification numbers to all of our library books if we would supply him with a list, including title, author and volume numbers. This offer was accepted and the list furnished, hence we expect to complete the library cataloging this spring.

The work of accessioning nature items has been carried on during the entire month by Junior Park Naturalist Gayley and for the last part of the month by Assistant Park Naturalist Gross.

On January 20 a meeting of department heads and officers approved the formation of the Yellowstone Library and Nature Association and voted to adopt the rules and regulations submitted. Officers and Directors were elected. The Association is to sponsor the Yellowstone Library and Museum and handle the funds obtained from the sale of publications.

Nature Notes were not issued during January, but the January - February issue will be mailed about the middle of February. Following a large number of replies received from a questionnaire sent to the Nature Notes mailing list and considerable discussion, it was decided to continue Nature Notes as a free publication.

460 - Birds

The usual numbers of ducks and geese were prevalent over the park in all of the open waters and exceptionally large numbers are to be reported from the Madison River. However, no actual counts are available. Two swans were seen at Lewis Falls and six on the Snake River near the Snake River Ranger station on January 20. It was impossible to determine whether or not those were true visitors.

470 - Animals

During the past month all animals were noted to be in good condition with forage conditions good. All of the game salt grounds in the vicinity of Mammoth, Gardiner and the Game Ranch were replenished this month with 600 pounds of block and crystal salt.

Elk - Three hundred fifty elk were fed daily at both Upper and Lower Lough Creeks. Seven hundred head were at our lower creek at one time. Several hundred head were counted on snowdrifts just on ice of the park at various times during the month. Eight hundred were counted on January 11 along the west side of the Yellowstone River between Gardiner and the Game Ranch. There were 300 head in Mammoth the last of the month. The first elk to visit the Game Ranch this year appeared on January 4 when 20 head were counted. A herd of the D.O.G. in that district drifted on down below Mammoth.

These provisions are intended to facilitate effective and efficient
action by the Board in carrying out its responsibilities under the
Act, without unduly inhibiting the Board's ability to act in the public
interest of Alaska or Alaska's own unique circumstances.

The Board is authorized to make recommendations to the Board
of Education which it may follow. The Board may consider the
recommendations of the Board of Education in making its own

recommendations to the Board of Education. The Board of Education
is authorized to make recommendations to the Board of Education
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Section 4.00

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recommendations to the Board of Education. The Board of Education will make recommendations to the
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Section 4.00

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Creek via Beatty's Gulch and Aldrich Ranch. Seven hundred cattle were in the near vicinity of Gardiner, especially near the east Mount Lorette.

Deer has been received for two young, all, one male one cow fawns, which we will try to capture shortly after the first of the month. Deer kills consist of two on the Rose Ranch and one in town. One calf deer was found with a broken neck on the Rose Ranch. It is presumed that this calf fell while attempting to jump the fence. The first deer to shed antlers was noted on the lower Laugh Creek Ranch January 28.

Bear - No satisfactory counts of these animals were made during the month. However, at the end of the month there were 20 in the park itself, 12 near Gardiner and 11 in town. The balance of the bear herd was fairly well scattered over all of the nearby foothills. No bears were noted as killed by coyotes in the vicinity of Gardiner and one at town. The first observation of shed antlers at the Game Reservation Ranch was on January 24. Last year the first observation of shed deer antlers at the same ranch was on January 6.

Lambs - Twenty lambs were counted in the Thorofare country this month.

Antelope - The antelope are scattered in small bands from Gardiner to Devil's Slide, twelve miles from Gardiner. One hundred thirty-one head were counted between Moose Creek and Beatty's Gulch, 41 at Devil's Slide and 34 on the Moose Creek Ridge. No good counts of antelope were made.

Night hunters are again busy in the same ranch district. During the night of January 9, seven antelope were killed, four across the road from the Game Ranch gate, two near Albert Lorey's house and one on Redburns Hill. On January 21 two more were killed at Devil's Slide. On undetermined days two more were killed, one at Electric and one near the Gardiner depot, thus making a total of twelve antelope killed by the night hunters to date. Intensive patrols will be made during the next full moon in an attempt to catch some of these hunters. Members of the National Park Service, Forest Service and Montana Game Department made drives in order to bring the antelope back toward the park on January 26 and 31, the latter drive being the more successful as 15 head were driven back to park limits within the new addition to the park.

Sheep - No reports are available on sheep in the Gardiner region during the month. On January 10, 44 sheep were counted at the mouth of Bear Creek and on Mount Lorette. Nineteen head of sheep in good condition are wintering in the vicinity of Tower Falls. One large ram was found on the Yellowstone River, his entire carcass having been eaten by the eagles - with the exception of his large skull and horns. This ram's head is now in the museum.

and the world's largest country, and included most major mineral and energy resources. The Soviet Union had a diversified economy which produced a wide variety of manufactured goods, including steel, coal, oil, timber, automobiles, aircraft, machinery, and consumer goods. The Soviet Union also had a large agricultural sector, producing wheat, corn, soybeans, cotton, sugar beets, and meat products. The Soviet Union had a well-developed transportation network, including a dense road system, a extensive railway network, and a large fleet of ships.

The Soviet Union had a highly developed industrial base, with a wide range of industries, including agriculture, mining, manufacturing, and services. The Soviet Union had a large industrial sector, producing a wide range of goods, including steel, coal, oil, timber, automobiles, aircraft, machinery, and consumer goods. The Soviet Union had a well-developed transportation network, including a dense road system, a extensive railway network, and a large fleet of ships.

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Buffalo - The buffalo calf number has held the same point all the month. A complete report covering the last in all other respects was submitted earlier in the month. Counts of buffalo have during January are as follows:

Buffalo Ranch	72 head, including 13 calves
Upper Sulphur Creek	172 head
Upper Miller Creek	55 head
Nacho Creek	10 head

255

For the first time in several years a large bull buffalo was being photographed on the ~~month~~ parade grounds. This animal had thus far been wintering between the lower and the Gardner River, but on January 27 made his appearance in ~~month~~.

Small animals - No trappers outside of the park in the Gardner region to date have taken 30 marten, 8 foxes and 10 weasels. There follows a report as submitted by Park Ranger J. C. Ogden, who is in charge of the Sylvan Pass Ranger Station, in regard to the trapping along the east side of the park.

"During the last five day patrol was made from the station to the trap lines of Carl Fischer and Roy Glaser. It is in three parts, the other part being held by . . . Johnson, owner of Johnson. The traps have been supplied by Glaser. Fischer is the winter keeper and Glaser a guide during the winter. Glaser receives one-half of the catch and the other a quarter. The trap outfit consists of six copies, 20 martin, one bobcat and one cross fox.

"The trappers do not infringe on the park. They have a fine country to trap, and there are plenty of fur-bearing animals in its watersheds.

"There are about one hundred and fifty elk in the two watersheds, Jones and Crow creeks. About ten moose were seen in the two watersheds. The elk and moose have been wintering on Jones and Crow creeks for years."

Buffalo and their ranch activities - At the Buffalo and South Creek ranches the main activity for the month was the feeding of the game. Approximately 30 tons of hay were fed at both upper and lower Lough Creek areas where approximately 500 elk were fed daily at each place. Feeding was started at the Lower Lough Creek Ranch on January 12 and at the Upper ranch on January 14. Ninety-four hundred pounds of cottonseed cake and 50 tons of hay were fed to the buffalo at the Buffalo Ranch.

409 - Natural Springs

Lyon Spring - a small upper flow of water covers the entire northeast slope below the spring. Sulphur bacteria are abundant over fully one-half of this area. The smaller opening at the bottom is now closed, and the larger terrace on the east is filled with soft water, but is not overflowing.

Maltese Spring - the flow is the same as the spring about the winter is increasing in height no extent. Two small basins on the south have been reclaimed and are building up. Three large terraces are forming on the east portion of the slope, and a large one about the center. The travertine is in evidence on the fronts of these new terraces which are large. A great deal of sulphur bacteria is in evidence.

Ground and surface are the same.

Steepness has decreased.

Spring is overflowing slightly along its north slope.

Jupiter and Lime Spring - are putting out about the same amount of water as in October. There are not many algae in evidence and the colors are dark and dingy.

Cavil Spring - shows no change from last month.

Twin Springs - on January 17, 1920, George Ray and Elliott observed an eruption of twin springs at 10:15 a.m. They were attracted by the noise and rushed out in time to see both springs erupting to a height of at least 40 feet. The eruption, a violent one in which mud, stones and large sticks were thrown out, lasted only about four minutes.

Grand Spring - on January 31, 1920, Fred Rogers made a prolonged visit to the spring. The spring was full and overflowing, but a large stone vent has opened about two feet from the spring and is pouring in competition with the once famous Black brother.

500 - Use of park facilities by the public

510 - Increase or decrease in travel

Travel for the month consisted of 110 visitors traveling in 10 automobiles. All travel out and in left the park via the northern entrance.



530 - Special Visitors

Samuel C. Carter, former member of the band, who arrived in the park on December 10 for the purpose of collecting presents, departed on January 2.

John and George Carter of the Fox Aviation Company, who arrived in the park on November 18 to take notes in connection with activities, returned from the 18th to the 15th of January and departed the following day for their headquarters in Denver.

Dr. G. H. Carpenter, dentist of Superior, Colorado, came to vacation on January 20 to take notes on a personal trip.

600 - Protection

610 - Police Protection

Peter Michetto, a government truck driver, obtained two gallons of gasoline from the government truck which he was driving while hauling freight in the town of Gardiner. When taken before Commissioner of Revenue on January 14 when he was fined \$6.00, as he had signed off from the Government service.

There is quoted below a short report as submitted by Park Ranger Captain of the Alpine Game Department, which is of interest in the line of police protection in Montana.

"Great Bear Canyon, who lived at White Sulphur Station, heard a shot one evening and proceeded to investigate. On the highway near his station he encountered a resident of the lower country by the name of Harry Bell loading an elk into his automobile. Ranger gender said 'Harry, tell you're under arrest.' Mr. Bell proceeded to unload the quarters of elk from his car and place them in ranger's car.

"The next morning when Sheriff Hall took steps to carry his order of arrest of violation, he was apprised, and a jury trial was held. Mr. Bell swore he never was there or saw Harry Gender. A quick verdict of acquittal was pronounced and Mr. Bell was set free."

640 - Destruction of predatory animals

Thirty coyotes were killed this month as compared with 30 for the month last year and 24 in 1932. This makes a total of 131 this year, 162 last year and 76 in 1932 for the same period.

100 - Miscellaneous

Post Office

The volume of business for January in all branches was slightly less than for the corresponding month in 1923.

Church Services

Services were held in the hotel during evening, January 10, by Rev. L. D. Smith. Music by a choir organized and directed by Mrs. Edwards has served to create a new interest in church services, and the attendance has shown a marked increase.

On Sunday evening, January 20, Rev. Webster C. Jones, the visiting Lutheran minister from Livingston, Montana, held services in the Hotel Hotel.

Hospital and Medical

Dr. Radloff, resident physician, made 111 calls on his 120 office calls during January.

Deaths

The mother of E. A. Lint, editor of the Livingston (Montana) Enterprise, died in Livingston on January 4 after a prolonged illness. Mr. Lint was 70 years of age. He was buried in Elmwood Cemetery, and Mrs. Edwards, Joffe and Stanley attended the funeral services in the Methodist Church.

Mrs. Lawrence Dick, an old time resident of Gardiner, died in Livingston hospital on January 8 and was buried the same day in Gardiner. Mr. and Mrs. Joffe and Fletcher Stanley attended the funeral services in the Gardner Chapel. Mrs. Dick's husband practiced for many years in the Yellowstone and was well known among the old-timers in the park, he died several years ago.

On January 9 we received word over the radio of the passing on that day of former resident of Livingston, Mr. H. C. Hough, whose quarters is being flown at half mast for a period of thirty days.

Yellowstone Legion

A meeting of the Yellowstone Park Federal Legion's Union No. 453 was held in the Lodge Room of the canyon on January 9 and new officers were elected for the ensuing year. Ray W. Morris was elected president; Frank

and the other will receive the full amount and will have the right to sue for the same.
The Company will pay all expenses of the Agent in connection with his work.
The Agent will receive a salary of \$100 per month, plus a commission of 5% on all
sales made by him, and will also receive a gratuity of \$50 per month.
The Agent will be responsible for all expenses incurred in connection with his work,
including travel, meals, lodgings, and other expenses.
The Agent will be required to furnish his services for a period of one year, and will be
entitled to a vacation of two weeks during the year.
The Agent will be required to furnish his services for a period of one year, and will be
entitled to a vacation of two weeks during the year.

Watson, Vice President; George Coffey, Secretary-Treasurer; and Mr. J. A. Robinson, Guardian. The Executive Committee consists of Mr. Watson, Chairman; W. C. Coffey, Fred Johnson, Harry Flory and George Hobbin. The Union now has over two hundred, seven hundred dollars having been secured since the holding of the meeting on January 1. Four meetings are to be held the first week in each month, at the dates of July, August and October. The Executive Committee is to have charge of all social functions to be held at schools for members of the community.

An old time dance was held in the center on the night of January 14 and a winter sports carnival was held in the new building on the 15th. Practically all members of the community attended these two affairs and everyone enjoyed a pleasant time. A like function will be held from time to time during the remainder of the winter.

The men of the community are now organized in what is called "In the center" one evening each week, while the women of the community are participating in a class of callisthenics, one evening each week also.

Meetings of the various department heads were held twice during the month on January 3 and 10, and a number of matters of general interest were discussed.

Mr. C. C. Mitchell, employed as a cook here, left on January 1 for an extended leave of absence, including both furlough and leave without pay. Mr. Mitchell expects to engage in independent lecture work on the national parks while on this leave and to solicit business for year to year park motor trips which he contemplates organizing.

Very truly yours,

W. G. Edwards
acting superintendent.

the first time, and the author's name is given. The author is also mentioned in the title of the book. The title is "The History of the English Language". The book is written by a man named John. The book is published by a company called "The Publishing Company". The book is available in the library.

John is the author of the book.

The book is published by The Publishing Company.

10-159
(May, 1931)

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of January, 1931

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	70	10	70	10
Number of additions.....	1	0	0	0
Total	71	10	70	10
Number of separations	0	0	0	0
Number of employees close of month	71	10	71	10
Number of promotions during month	0	0	0	0
Aggregate amount of annual leave taken	84	0	84	0
Aggregate amount of sick leave taken	84	0	84	0
Aggregate amount of leave without pay	24	0	0	0

4636

СОДО
1991

ЯВЛЯЮЩИЙ ЭНТ ПО РЕГИСТРАЦИИ
ЗАЩИЩЕННЫЙ ЗАЩИЩЕННЫЙ

ПОДПИСЬ ФОТОГРАФИЯ

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

10-157
(July, 1929)

TRAVEL REPORT

Visitors to National Park for the month of July

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

PRIVATE TRANSPORTATION:

Cars first entry,	140	140	140	140	0
Cars reentry,	140	140	140	140	0
Motorcycles,	140	140	140	140	0
Total motor vehicles,	140	140	140	140	0
Persons entering via motor vehicles,	110	110	110	110	0
Persons entering via other private transportation,	110	110	110	110	0
Total persons entering via private transportation,	210	210	210	210	0

OTHER TRANSPORTATION:

Persons entering via stages,	110	110	110	110	0
Persons entering via trains,	110	110	110	110	0
Persons entering otherwise,	110	110	110	110	0
Total other transportation,	110	110	110	110	0
GRAND TOTAL ALL VISITORS,	110	110	110	110	0

	This Year	Last Year	Increase
	Number	Percent	

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

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

RECOMMENDATION FOR APPROVAL

TO THE SECRETARY OF THE INTERIOR

NAME	POSITION	TERM	REASON FOR REMOVAL
John C. H. [illegible]	[illegible]	6/1/50	11/7

RECOMMENDED BY THE SECRETARY OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

11-1963 National Park for the Month of

	This	This	This	Last	Increase for	
	Month	Travel	Month	Travel	Travel	Year
	Month	Year	Last	Year	To Date	Number Percent
Current generated,	60,61	6,000	3,400	4,000	-7,177	-11.7
Sold to park operators,	614	2,700	1,200	1,000	1,700	+62.9
Sold to others,						
Furnished to other Governmental agencies,						
Used by National Park Service, lost in transit, etc.,						
Total current generated,					-7,177	-11.7

Amount receivable from the sale of electricity,

\$ 2,000.00

* Indicated by K. W. H.

БАТАЛІЯ СЕТІНІ

МОУЗТАК БЫЛ БОЛЫГАДАРСТЫ

ЖАЛЫУАЛАДАРСТЫ

САЛЫНДЫРЫЛЫП АЛДЫРЫЛЫП

АЛДЫРЫЛЫП АЛДЫРЫЛЫП

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

National Park for the Month of

Yellowstone	January, 1933	
	This Year	Last Year
Park revenue on hand beginning of month,		
Received,	\$4,066.43	\$ 3.40
Total,	1,340.95	61,176.05
Remitted,	\$5,407.38	\$61,179.45
On hand close of month,	5,407.38	61,157.85
	-0-	\$ 21.60
Park revenues received this year to date,		
Park revenues received last year to date,	\$131,607.97	
Increase,	217,816.40	
Per cent of increase,	86,208.43	
	39.5785	
de ##		

THE NATIONAL PARK SERVICE

NATIONAL PARK SERVICE

KANSAS CITY PARKS

National Park Service

100000
100000
100000
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100000
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100000
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100000

Past experiences in developing a park system

Geological

Total

Remittee

of planning committee

Past experiences in developing a park system

100000

100000

100000

100000

Increase

not enough to indicate

100000

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

National Park for the Month of January, 1968

Description of Projects	Percent Constructed		Percent Constructed		Planned Date of Completion
	To Date	This Month	Last Month	Year to Date	
No construction activities were reported during January.					

STATE OF NEW YORK

APRIL 20, 1968

REGISTRATION

REGISTRATION OF TRADE MARK

SUMMARY OF WEATHER CONDITIONS
at
MAMMOTH HOT SPRINGS YELLOWSTONE NATIONAL PARK
JANUARY, 1935

January daily temperatures averaged 19.2 degrees, or 1.6 degrees above normal and 5.5 degrees above those of January, 1932. The difference in the two Januaries was due principally to the lower minimum temperatures last year. The average daily minimum temperature last year in January was 5.4 degrees, with an extreme of 15 degrees below zero on the 31st. This year January's average minimum temperature was 13.2 degrees, and the lowest temperature reached was -7, on the 16th. The month averaged 7.3 degrees daily warmer than the month preceding it, December, 1932, during which the daily minimum temperatures averaged 4.3 degrees, with the temperature falling to zero or lower on 12 days, and with an extreme minimum of -29 on the 11th. During January, 1933, the maximum temperature rose above the freezing point on three days. The highest temperature was 36 degrees on the 9th. The month produced no especially remarkable temperature conditions. A cold wave coming in on the 15th and 16th caused a drop in temperature of 31 degrees in 24 hours, from 24 degrees to 8 a.m. of the 15th to -7 degrees, the minimum for the month, at that hour on the 16th.

There were no really heavy snows during the month, the greatest 24-hour snowfall being 4.2 inches on the 27-28th. There were, however, very frequent light snows. The total snowfall for the month was 23.3 inches, which was nearly six inches more than fell in December, and 3.1 inches more than fell last January. Not a single day in January, 1933, failed to have at least a trace of snow. This record is not paralleled in the official weather history of the station. The greatest depth of snow on the ground during the month was 12.2 inches, on the 28th in the morning. At the end of the month the average depth was 9.5 inches. The snows were characteristically light in water content, producing only 1.19 inches of water, which is 0.40 inch less than normal. The month thus continued the long succession of below-normal precipitation months which includes every month in 1932 except June, and every month in 1931 except September.

January was also remarkable for its cloudiness and the resulting low percentage of sunshine. There were 41 hours of sunshine during the month, the lowest on record, only 14 per cent. of the possible duration. There were 27 cloudy days and four partly cloudy days.

The month broke still another record, - the total wind movement, which of course includes every hour of the month and determines the average hourly velocity, which was 11.6 miles by the standard 4-cup anemometer, corrected. The month's maximum wind velocity, 35 miles per hour, on the 2nd, is the highest velocity as yet recorded in January, when old values are corrected to harmonize with current records.

W. T. LATHROP, Meteorologist.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

ation, Yellowstone Park, Wyo.; month, January, 1933

TEMPERATURE (Degrees Fahrenheit.)			Precipita- tion. (In inches and hundredths.)	Per cent. Character of day Possible Sun- shine	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)	
Max.	Min.	Mean.			Mean 29.984; highest 30.56, date 11 & 13 lowest 29.40, date 18	
24	13	18	.03	Cloudy	2	TEMPERATURE.
29	20	24	.12	Cloudy	0	Highest 36, date 9; lowest -7, date 16
29	12	20	.10	Cloudy	20	Greatest daily range 30, date 15
27	15	21	T.	Cloudy	1	Least daily range 3, date 18
29	24	26	.03	Cloudy	0	MEAN FOR THIS MONTH IN
33	29	26	.10	Pt. Cloudy	57	1871 82 93 17 04 19 15 19 26 20
32	25	28	T.	Cloudy	14	1872 83 94 17 05 20 16 7 27 19
34	24	29	.03	Cloudy	8	1873 84 95 19 06 22 17 11 28 22
36	26	31	T.	Pt. Cloudy	32	1874 85 96 26 07 15 18 16 29 11
27	9	18	.01	Cloudy	14	1875 86 97 16 08 20 19 22 30 5
20	7	14	T.	Cloudy	0	1876 87 19 98 15 09 21 20 23 31 23
28	19	24	T.	Cloudy	17	1877 88 11 99 20 10 16 21 21 32 14
31	21	26	T.	Pt. Cloudy	51	1878 89 15 60 22 11 21 22 12 33 19
30	25	28	.05	Cloudy	0	1879 90 10 01 21 12 20 23 21 34
26	-4	11	.27	Cloudy	0	1880 91 20 02 17 13 14 24 16 35
13	-7	3	.09	Cloudy	14	1881 92 16 03 23 14 25 25 21 36
20	4	12	.08	Cloudy	1	Normal for this month 17.6
15	12	14	.05	Cloudy	18	Absolute maximum for this month for 47 years 49
24	14	19	T.	Cloudy	8	Absolute minimum for this month for 47 years -41
29	18	24	T.	Cloudy	4	Average daily excess (+) or deficiency (-) of this month as compared with the normal +1.6
26	19	22	T.	Cloudy	2	Accumulated excess (+) or deficiency (-) since January 1 +50
22	8	15	T.	Pt. Cloudy	70	Average daily excess (+) or deficiency (-) since January 1 +1.6
24	14	19	T.	Cloudy	0	PRECIPITATION.
21	10	16	.01	Cloudy	0	Total this month 1.19; snowfall 23.3
23	9	16	.03	Cloudy	24	Greatest precipitation in 24 hours 0.27, date 14-15
15	2	8	.01	Cloudy	17	Greatest 24-hour snowfall 4.2, date 27-28
29	14	22	.06	Cloudy	0	Snow on the ground at end of month 9.5
29	12	20	.11	Cloudy	27	TOTAL PRECIPITATION THIS MONTH IN
19	12	16	.01	Cloudy	2	1871 82 93 1.82 04 0.23 150.41 260.35
21	7	14	T.	Cloudy	15	1872 83 94 1.82 05 0.25 162.60 271.10
17	55	11	Total	Cloudy	21	1873 84 95 4.76 06 1.48 170.69 280.70
25.2	13.2	19.2	1.19		1874 85 96 2.21 07 2.44 181.98 291.00	
					1875 86 97 1.12 08 0.85 190.88 300.88	
					1876 87 7.70 98 0.31 09 1.61 200.28 310.11	
					1877 88 3.93 99 4.21 10 1.90 211.49 320.83	
					1878 89 1.05 00 0.90 11 4.56 220.74 331.19	
					1879 90 6.10 01 2.26 12 0.89 231.49 34	
					1880 91 0.48 02 0.96 13 2.60 240.80 35	
					1881 92 1.40 03 0.60 14 0.97 251.32 36	
					Normal for this month 1.59	
					Excess (+) or deficiency (-) of this month as compared with the normal -0.49	
					Accumulated excess (+) or deficiency (-) since January 1 0.40	
					MEAN RELATIVE HUMIDITY (Percentage).	
					-6 a.m., 79.0; local noon 68.3; 6 p.m. 71.7	
					WIND.	
					Prevailing direction SW; total movement 8,610 miles;	
					average hourly velocity 11.6; maximum velocity (for five minutes) 35 miles per hour, from Southwest	
					on 2nd	
					Maximum wind velocity this month since 1904	
					(By three-cup anemometer) 35-SW, Jan 2, 1933	
					WEATHER.	
					Number of days, clear 0; partly cloudy 4; cloudy 27	
					on which .01 inch, or more, of precipitation occurred 18	
					MISCELLANEOUS PHENOMENA (dates of).	
					Auroras None; halos: solar None, lunar 17	
					Hail None; sleet None; fog None	
					Thunderstorms None	
					*Frost: light -----; heavy -----; killing -----	

NOTE.—"T" indicates trace of precipitation.

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, 36%, on 6th, at 6 a.m.

W. T. LATHROP,
Meteorologist

Weather Bureau.

U. S. DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION

MONTH

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