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

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MONTHLY REPORT

MAY, 1933

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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

YELLOWSTONE NATIONAL PARK

YELLOWSTONE PARK, WYO.

OFFICE OF THE SUPERINTENDENT

June 5, 1933.

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

Dear Mr. Director:

Following is the monthly report of activities for Yellowstone National Park for the month of May, 1933.

000 - General

Simultaneously with the opening of the Century of Progress Exposition in Chicago, Yellowstone National Park welcomed its first 1933 visitors. On May 27 the north and west gates were opened to motorists and accommodations were available at Mammoth, Old Faithful, Lake and Canyon. The opening date saw a number of fishermen come into the park for early catches and many of them were rewarded, although the streams were high and muddy in certain sections of the park. The fishing season also opened on May 27.

The long winter and the late spring, with the large amount of precipitation, saw a most beautiful park by early June, with many flowers and the green trees making their appearance.

Many warm days during the month caused the snow to disappear at the lower elevations and, with the aid of the Snogo plow purchased last spring, little difficulty was experienced in opening the road from Mammoth to Old Faithful and West Yellowstone and to Lake and Canyon. At the end of the month the snow plow was working on the east entrance road. The south entrance road and the road from Old Faithful to Thumb are still closed by snow.

The blocking of the Golden Gate road by a cave-in in the tunnel constructed during the past winter necessitated the early opening of the Dunraven Pass road, this road being made passable on May 27, the date the first visitors were admitted. The contractors, as per agreement, had the Golden Gate road cleared of rock so that travel could go through on the 27th.

The Bozeman-West Yellowstone road was opened on May 22.

The work preparatory to the taking care of the Emergency Conservation Work camps necessitated many conferences and trips out into the park and much additional correspondence.

A conference of permanent park rangers from the 22nd to the 25th brought together all of the rangers, officers and heads of departments and much benefit resulted from these contacts. The sessions lasted for four days and many of the problems affecting the ranger department were thoroughly discussed.

The first forest fire of the season broke out on the west side of the park north of West Yellowstone on the 29th, but it was under control the following day.

020 - General Weather Conditions

A summary of weather conditions for May will be found at the back of this report.

021 - In the Park

All of the loop road in the park is now open to travel with the exception of the Old Faithful-West Thumb section. The south and east entrance roads still remain closed with heavy snow and at the present time our snow plow is working on Sylvan Pass and we expect to have it open for traffic on June 5. It was possible for us to rent the Wyoming plow for a few days and it started out from Moran towards the south entrance on May 19 but, after going into the park about seven miles, it was called back to start work on the Togwotee Pass road. Golden Gate was open to traffic on May 27 between the hours of seven a.m. and seven p.m. The Dunraven Pass road was opened by the snow plow on the evening of May 26 and travel was permitted over this road on the 27th.

022 - In the Approaches to the Park

All the approach roads to the park are now open with the exception of Teton Pass and Togwotee Pass in the Jackson Hole country and the Bechler River road which, at the end of the month, had a good many three and four foot drifts remaining.

100 - Administration

110 - Status of Work

Preparations for the establishment of the "E.C.W." or Emergency Conservation Work camps and the new Civil Service requirements that all

The work requisite to the bridge area of our property, including approaches, must cause considerable delay, inconvenience and loss to the public and cause additional expenditures.

A statement of probable work remains from the time to time to be made regarding weather all of the property, buildings and lands of Superintendent and staff should be kept clean. The machines lands the fire days and many of the problems affecting the engine department were thoroughly discussed.

The final report time of the engine room and on the part -ular of the pump house of what following is the 2.1%, but it has been noted the following day.

C10 - Summary Weather Conditions

A summary of weather conditions for day will be found at the end of this report.

D1 - In the Yard

All of the long rail in the yard is now open to general use the completion of the 1st Saturday-and from months. The lands and all -tions work will remain closed with other also and to the Jamaica Bay and same plan is working on office now and to repair to day it has to battle on time 5. If the weather for to be work the Jamaica plan the 2 fire days and is allowed and the work under repair and work subject to day if but, after going into the rail least area also. If the bridge load to start work on the Jamaica Bay work. Further work for work to traffic or day or between the lands of area ... and work yard. The machine has been on duty by the work done on the morning of day it has been the quantity and this road or the field.

D2 - In the Engineer in the Yard

All the engineer work in the yard the new fill the change -tion of road from and together from to the lands this morning and the Jamaica area road work, a the end of the work, has a good map there and from the field work.

D3 - Administration

D10 - Change of Time

Requisition for the establishment of the "Jamaica" or Jamaica Connection has been the not with Jamaica Bay work all

employees, excepting common laborers, be selected from registers, were responsible for a considerable amount of additional paper work and it was only by much overtime on the part of most of the officials and office employees that the work could be kept current. Very little leave was granted during the month to office employees as most of them had already taken their furlough leave and their services were needed here.

Superintendent Toll returned to the park from Denver on May 1 and remained during the entire month, with the exception of trips to Livingston, Bozeman, Missoula and Helena, in connection with E.C.W. and other official matters.

Assistant to the Superintendent Joffe returned on May 1, having been away since the 25th of March on leave and on a lecture and motion picture showing tour in Missouri and Kansas.

Miss Antoinette Knaff, selected from the Forest and Field Clerk register as a clerk (seasonal) to fill Position No. 10, reported for duty on May 10 and was assigned to work in the Park Naturalist's office.

William H. Katus, selected from the Forest and Field Clerk register as a clerk (seasonal) to fill Position No. 34, reported for duty on May 13 and was assigned to work in the commissary.

A meeting of the officials and heads of departments was held in the Superintendent's office on May 12 to discuss E.C.W. matters.

120 - Park Inspections by:

121 - Superintendent

Superintendent Toll made the usual inspections around headquarters and trips into the interior of the park and outside the park as follows:

May 1. In Livingston enroute to the park. Attended Rotary meeting with Assistant to the Superintendent Joffe; arrive in the park that evening.

May 4. On Tower Falls road with Assistant Superintendent Edwards.

May 5. To Bozeman with Assistant Superintendent Edwards for meeting on E.C.W.; returned in evening.

May 7. To Overhanging Cliff, Tower Falls and to Slough Creek mail box; returned to Mammoth for night.

May 8. To Missoula by Government car with Assistant Chief Ranger Johnston on E.C.W.; night in Missoula.

May 9. To Helena by train for conference with L. C. Nichols, E.C.W. and other matters; night in Helena.

May 10. Remained in Helena. Talked with Governor Cooney, and various state and Government officers.

May 11. Returned to park by Government car in company with Assistant Chief Ranger Johnston.

May 13. To Golden Gate project with Assistant Landscape Architect McCarter and C. F. Capes of the Bureau of Public Roads.

May 15. To Livingston with Assistant Superintendent Edwards to attend District Rotary Convention; night in Livingston.

May 16. In Livingston with Assistant Superintendent Edwards for District Rotary Convention; returned to Mammoth in evening.

May 17. To Livingston in evening with Messrs. Edwards, Joffe, Hundley, Watson and other Park Service ex-service men to attend monthly meeting of the American Legion, returned to Mammoth for night.

May 20. To Lake and Canyon with Messrs. Edwards, Baggley, McCarter and Wiggins and Captain F. B. Rogers of Missoula to look over camp sites for E.C.W.; returned in evening.

May 23. To Golden Gate to view cave-in of tunnel and secure pictures.

May 26. To Golden Gate in morning with Messrs. Edwards and McCarter; to West Yellowstone in afternoon to inspect construction of new ranger station; returned in evening.

May 28. To Livingston with Messrs. Edwards and Joffe to attend funeral of Mrs. M. J. Miller, wife of Judge Miller; returned in evening.

May 29. To east entrance road, via Dunraven Pass, with Dr. Bauer.

May 30. To Golden Gate in morning with Messrs. Edwards and McCarter and Bureau of Public Roads Engineers Bright and Capes. To the tunnel site at Undine Falls in afternoon with Dr. Bauer.

May 31. To Old Faithful with Chief Ranger Baggley; returned in afternoon.

Park Inspections by Assistant Superintendent

Assistant Superintendent Edwards made numerous inspections around headquarters and in the interior of the park and made trips outside the park as follows:

May 2. To Livingston in evening to attend Masonic Lodge.

May 5. To Bozeman with Superintendent Toll on S.C.W. matters; returned in evening.

May 8. To Livingston to attend Rotary meeting and make preparations for entertaining visiting Rotarians in park; returned in evening.

May 13. To Livingston in evening to make preparations for entertaining Rotarians attending District Convention; returned at night.

May 14. To Livingston in evening to attend District Rotary Convention; night in Livingston.

May 15. In Livingston attending District Rotary Convention; night in Livingston. Delivered talk at convention on "International Fellowship in Yellowstone Park".

May 16. In Livingston attending District Rotary Convention; returned in evening.

May 17. To Livingston in evening to attend monthly meeting of American Legion; returned that night.

May 28. To Livingston to attend funeral of Mrs. H. J. Miller, wife of Judge Miller.

123 - National Park Service Officers

R. C. McCarter, Assistant Landscape Architect, who arrived on April 24, remained during the entire month looking after landscape matters. Mr. McCarter is assigned to Yellowstone for the summer.

125 - Other Governmental Officers

C. F. Capes, in charge of the Bureau of Public Roads work in the park arrived via Gardiner on May 29 in company with J. S. Bright, Construction Engineer of the San Francisco office of the Bureau of Public Roads. They came to look over the Golden Gate job and other bureau work in the park. While here, they received news of the death in Denver of Mr. J. W. Johnson, District Engineer of the Bureau. Advancing their departure a day, they left on May 30.

Fred J. Foster, in charge of Bureau of Fisheries activities in the park, arrived and departed via Gardiner on May 15. Observations were made of the fish rearing ponds at Mammoth.

140 - Labor Situation

The enrollment of men for Emergency Conservation Work in neighboring localities has taken care of a number of the unemployed, and the opening up of spring work has provided employment for some. There are still many men coming to the park seeking employment, but it is not possible to give them much encouragement due to the new Civil Service requirements for all men, excepting common laborers, to be selected from registers and on account of the reduced appropriations.

The contract jobs in the park under the Bureau of Public Roads have provided employment for quite a number of residents of Gardiner and Livingston, while the mines in Jardine and the travertine quarry north of Gardiner have also taken care of some.

The E.C.W. camps seem to be getting the best available material in the way of foresters and foremen, so that it is rather difficult to get the right men for certain of our jobs.

No new examinations for establishing Civil Service registers for the use of the park were announced during the month, but several registers were furnished the local board from which selection must be made for filling positions in the park.

150 - Equipment and Supplies

During May one carload of gasoline, one carload of coal and one carload of lumber were received. Miscellaneous items received during the month were as follows: 22 cylinders of cholrine gas, three shipments of E.C.W. equipment, galvanized wire, road grader parts, tires and tubes, seed, cedar posts and groceries. Road camps at Norris and Canyon were opened and three more camps are to be opened in the park early in June.

160 - Status of Alienated Lands

The status of alienated lands in the park has not changed during the month. Some work has been done on the removal of fences and the improvement of the land recently added to the park north and west of Gardiner.

170 - Plans, Maps and Surveys

There was no field work underway other than supervision of the snow removal crew and the organization of the East Forest crew by the Park Engineer. Office work was mostly routine in character, consisting of the pre-

[illegible] - Dairy Industry

[illegible]

[illegible] - Labor Relations

[illegible]

[illegible] - Training and Apprenticeship

[illegible]

[illegible] - Change in Industrial Lands

[illegible]

[illegible] - Labour Force and Unemployment

[illegible]

paration of work plans and estimates for the coming season. One rodman was employed the latter part of the month who will be used principally as engineering timekeeper on project cost accounts and who has so far been employed in getting the cost accounting system underway.

180 - Circulars, Placards, Publicity Bulletins, etc.

Circulars No. 3 and 4 were issued during the month and copies are attached hereto.

No Nature Notes were issued during the month.

A memorandum was prepared and distributed to chambers of commerce throughout the western states, which contained information concerning the early opening of the park. This was widely published in the newspapers. Several Associated Press dispatches were released through Helena and pictures were furnished several organizations and individuals for publication.

Assistant Superintendent Edwards gave an address on "International Fellowship in Yellowstone Park" before the District Rotary Convention in Livingston on May 15.

Chief Ranger Baggley gave a talk, illustrated with slides, on winter life in the park, before the Livingston Masonic Lodge on May 2. There was a fine attendance and the showing and talk were much appreciated.

On May 17 Assistant to the Superintendent Joffe showed three reels of his motion pictures before the Park Post of the American Legion and on the 27th showed seven reels in Bozeman before the Bozeman Rod and Gun Club.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

A snow removal crew was operating during the entire month and accomplished the clearing of sections to West Yellowstone, Old Faithful, through Dunraven Pass, to West Thumb, and on the last day of the month were at work on the east entrance road about one-half mile west of Sylvan Pass.

The Wyoming snow plow was rented from the State for about ten days and used on the south road, reaching the seven mile post above the Snake River entrance.

Two section crews were established during the month: Mammoth, on May 19, and Morris Junction on May 27, and all sections open to the traveling public are in reasonably good condition for this season of the year.

East Forest Road - The crew for this section was organized on May 3, slightly earlier than in past seasons, because of apparent danger of high water conditions. No serious washouts have occurred from the spring runoff and at the end of the month all but the three miles directly east of the entrance was in excellent conditon; that portion is still somewhat soft and rutted because of snow still on the ground.

220 - Improvements

Carpenter Shop - The work in this department was confined during the month mostly to general maintenance. Several days were occupied in putting up window screens and in taking down storm sash. A new filing case was made for the ranger department for use in filing away auto permits. The Carpenter Foreman was away on leave for two weeks during the month.

Painting Department - During the month most of the work in this department consisted of general maintenance work in the buildings and sign work. In addition, several of our trucks which were being repainted, were lettered. The new library under the museum, including floors, was also painted. All Mammoth fire hydrants and signal boxes were painted.

Electrical Department - In addition to the usual maintenance work in this department, a new 25-pr lead telephone cable was strung to serve all telephones in buildings from the back of the garage to the hospital. All fire equipment field wire was completely repaired and rewound, putting all telephone fire equipment in good condition ready for service. Some work was also done in connection with our fire system in changing and rewiring the fire alarm circuit at the garage with push button control, etc. The light fixtures for the new library were hung.

All park telephone lines have been cleared of trees which fell across them during the past winter. The lines on the west side of the park were changed from grounded to metallic circuit on May 12. The lines on the east side were changed to metallic circuit on May 29.

Plumbing Department - This department operated and maintained the water and sewer systems and two refrigerating plants, also carried on the usual maintenance and repair of inside plumbing systems, ranges, etc. During the month the high pressure reservoir and the large concrete reservoir were cleaned and considerable work was done on the road to the lower intake at Glen Creek to make it passable.

Six heating plants for employees' quarters were maintained as well as four plants for heating the garage, administration building, post office and power house. Garbage hauling and cleaning of buildings was carried on as usual.

[illegible] - The [illegible] section was damaged on [illegible] 3. Fortunately [illegible] of [illegible] of high water conditions. No serious accidents have occurred [illegible] spring [illegible] at the end of the [illegible] the [illegible] by most of the [illegible] in exceptional conditions; that [illegible] essential work was started because of [illegible] the ground.

[illegible] - Improvements

[illegible] - The work in this department was confined [illegible] the month mostly to general maintenance. Several days were occupied in putting up window screens and in taking down storm sash. A new filing cover was made for the water department for use in filing, and also [illegible]. The carpenter foreman was busy in leave for two weeks during the month.

[illegible] - During the month most of the work in this department consisted of general maintenance work in the building and [illegible] work. In addition, several of our stores which were [illegible], were lettered. The new library under the museum, including floors, was also painted. All [illegible] fire apparatus and engine house were painted.

[illegible] - In addition to the usual maintenance work in this department, a new 6-pair lead telephone cable was brought to serve all telephones in buildings from the [illegible] to the hospital. All fire equipment field wire was carefully repaired and tested, putting all telephone fire equipment in good condition ready for service. Some work was also done in connection with our fire [illegible] in [illegible] and repairing the fire alarm circuit at the [illegible] and [illegible] [illegible], etc. The [illegible] finished for the new library [illegible].

All power telephone lines have been cleared of trees [illegible] fall among them during the past winter. The lines on the west side of the park were changed from [illegible] to metallic circuit on May 1st. The lines on the east side were changed to metallic circuit on May 17.

[illegible] - This department continued the [illegible] and maintenance work at the refrigerating plants, also carried on the usual maintenance and repair of [illegible] engines, [illegible], etc. During the month the high pressure reservoir and the [illegible] reservoir were cleaned and considerable work was done on the west to the lower [illegible] [illegible] to make it possible.

In heating plants for employees' quarters were maintained in all of four plants for heating the grounds, administration building, park office and power house. Garage heating and attention of machines was carried on as usual.

A 4,000 gallon gasoline tank was installed for the storehouse and connected to an electric pump.

Water was turned on at the following locations: ranger stations, housekeeping cabins and stores at Norris, Madison Junction, Old Faithful, West Thumb, Lake, Fishing Bridge and Canyon.

Shops - During the past month this department has finished the complete overhauling of all equipment, except two units which will be overhauled by June 10. During the month four trucks, three motor patrols and one ten-ton trailer were repainted with our standard National Park Service Duco green lacquer. Six Bureau of Public Roads trucks were also worked on during May. The fire truck, which was completed during April, was repainted a fire red, the chemical tanks were filled and it is now ready for service. In addition to the above fire truck, a fire trailer has been built to carry the ladder equipment which consists of one fifty foot extension ladder, one twenty-five foot ladder and two sixteen foot ladders. Both of the above mentioned are to be used for the Mammoth Fire Department.

The air lines in the garage have been repiped and one new air reservoir was added to the system, giving ample capacity to take care of the new fire whistle. Our new fire plan for Mammoth is practically completed except for working out a system of automatic signals and we expect a representative from a fire alarm company here in a few days to help us work out that part of our system.

In addition to the above mentioned work, the usual maintenance of equipment in operation has gone forward.

250 - New Construction: Roads

Spreading of selected material preparatory to palliative oiling of the East Forest road, Project #504, was started on May 15. About one-fourth of the funds allotted for this project will be used to lay surfacing material of pit run type on scattered sections where road metal is lacking for a satisfactory oiling job.

300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

The general store at Mammoth was open during the month to accommodate local residents and to take care of the early arrivals at Mammoth.

C. A. Hamilton, who arrived in the park on April 29, spent the month at Old Faithful and on May 27 opened the Old Faithful and Fishing

Bridge stores to accommodate early visitors. He will furnish meals and lodging at these points until June 3.

The housekeeping cabins were opened at Mammoth and Canyon on the 27th to take care of early visitors at these points and the Lodge and Camps Company expects to open its housekeeping cabins at Old Faithful and Fishing Bridge on June 3. Cafeterias and general stores were open at all main points on May 27, the first day motorists were admitted.

Mrs. Anna K. Pryor and Miss Elizabeth Frischman, who operate the general store and Park Curio Shop at Mammoth, arrived in the park on May 3.

W. M. Nichols, President of the Yellowstone Park Hotel, Transportation and Boat companies, arrived in the park on May 17, returning to Helena several days later. He expects to move his office to the park from Helena on June 1.

J. E. Haynes, authorized park photographer, arrived in the park with his family on May 23.

313 - Schedules of Rates

A rate of $45.00 for single and $80.00 for double, room with bath, American plan, was approved by the Secretary on May 3 as a weekly rate for the Canyon and Old Faithful hotels.

New gas rates for the 1933 season were approved, effective May 17, making the cost 24 cents at Mammoth and 25 cents at other points in the park.

On May 27 the oil prices were changed to 30 cents per quart for germ processed and 25 cents per quart for other Conoco oil. This is a reduction in each case of five cents per quart and corresponds with rates in Gardiner and West Yellowstone, as do also the gasoline prices.

400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

The usual activities were carried on by the members of the protection department throughout the entire month, with the exception of the 22nd to the 25th, inclusive, when all members were in conference at Mammoth Hot Springs. This is the first conference we have had for three years and it was highly successful. All of the department heads attended the daily meetings and matters concerning the protection department were brought up for discussion. The conference ended on the 25th with a morning session on the discussion of a theoretical fire problem, a ball game in the afternoon, followed by a banquet and dance that evening. All of the rangers returned to their duty stations on the morning of the 26th.

Chief Ranger Baggley made various inspections over the park during the month and, in addition, spent considerable time on the E.C.W. problems affecting the Yellowstone.

Assistant Chief Ranger Miller spent the month on his general duties and in preparing the ranger stations with supplies and equipment for the opening of the park on May 27. Accompanied by Ranger Brown, he spent May 1 to 5, inclusive, in the vicinity of Big Timber and Columbus, buying mules for the park pack train.

Assistant Chief Ranger LaMoue spent much of his time on the E.C.W. program in the park.

Forest Assistant Fred T. Johnston spent the month in preparing the fire protection program, insect control and type mapping program and forestry program in connection with the Emergency Conservation Work, for the coming season. From May 8 to 11 he was in the vicinity of Missoula, Montana, securing information relative to visibility mapping and forest nursery work.

Ranger Barrows left Mammoth on May 26 and returned on May 27, after a trip to St. Anthony, Idaho, to inspect some of the men who are to come to Yellowstone for enrollment in the E.C.W.

420 - Museum Service

The regular staff was on duty all month. Among the items which received particular attention were the library, the basement workshop, sales publications, program and work of the summer staff. Arrangements were made to place two men, Mr. Harry M. Kelly and Mr. Edward [illegible] Allen at the "Century of Progress" in Chicago.

Public contacts during May were as follows: On May 14 forty-five members of Rotary International visited Mammoth and the museum was opened for them. On May 17, thirty-two officers of the Parent Teachers' Association from eastern states visited the museum, hot springs and Tower Falls and were conducted by members of the permanent staff. On May 23 the Yellowstone Park officials and rangers visited the Mammoth Museum and Library.

With the completion of painting and steel shelving in the library, books were placed on the shelves in order according to the Dewey Classification. The library accession list was returned by Mr. C. Henry Smith who states that the work of classification was done by Miss Emma A. Jackson. For the present the library will remain a reference library as very few duplicates are in the stacks.

Museum work was confined to arranging cases and exhibits and

replacing materials in the geology cases. The new room on Earth Science is finished but much remains to be done to install proper exhibits. Fishing Bridge Museum was visited on May 28 and found to be in excellent condition in spite of snow four to six feet deep all around it and still reaching to the eaves where it was shoveled from the roof.

440 - Insect Control

Plans have been made for combatting an infestation of mountain pine beetles at Mount Washburn, but work has been held up because of heavy snow in that region. Inspection trips have been made several times during the latter part of May by Forest Assistant Johnston, and it was found that from three to five feet of snow covers most of the area over which control work is planned. One of the E.C.W. camps will soon be established at Canyon and it is now planned to begin control work at Mount Washburn about June 10. It will be necessary to double the personnel previously planned for this project, in order to treat all of the infested trees before the beetles start to emerge the latter part of June.

Several inspections that have been made by the U. S. Forest Service and park officials, of areas infested by the mountain pine beetle, seem to indicate that the severe cold weather of last winter has caused considerable mortality to broods of mountain pine beetles in this region. Inspections will be made at the earliest opportunity to verify these reports.

460 - Birds

Large numbers of ducks and geese are now nesting on the islands in the various waters in the park. All of the swans have left the Yellowstone River and are probably seeking nesting grounds. The California gulls returned to Yellowstone this month.

470 - Animals

With the receding snow, all of our game animals are now moving to the higher range.

Elk - Elk are in excellent condition, with forage conditions good The first calf elk reported was seen in the Horseshoe on the 25th. Numbers of elk may be seen along the roadsides and they are the source of much interest to our pre-season visitors. Seventy-five head were counted on Gibbon Meadows on the 30th.

Deer - Deer are also being seen along the roadsides and are noted to be in excellent condition, with forage conditions good. One deer was killed by a grizzly bear at Old Faithful on the 25th.

Antelope - About sixteen head of antelope are again summering at Gardiner and no doubt this is the same band which has summered there for the past few years. A few scattered animals are to be seen daily along the Mammoth-Cooke road and twenty-five head are in the vicinity of Hellroaring, the balance having drifted further up the Lamar.

Moose - Eighteen moose in excellent condition were seen in Willow Park and on Swan Lake Flat on the evening of May 31.

Buffalo - Nearly all of the buffalo have left the Buffalo Ranch and Lamar River. One hundred and eighteen buffalo calves were counted the last two days of the month. It is estimated that this year's calf crop will total about 150. As the buffalo started drifting toward the summer range, twelve head were captured and are being held at the Buffalo Ranch for the show herd in Mammoth during the summer.

Bears, black - The continual damage to the cafeteria, hotel and store at Old Faithful during the month made it necessary to kill the two black bears that were causing the damage.

Buffalo and Other Ranch Activities - One hundred and six acres of land at the Game Preservation Ranch and forty-four acres at the Buffalo Ranch were leveled and seeded during the month, in addition to the general ranch activities such as repairing corrals, fences, machinery, etc.

480 (follows 510)

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

The pre-season travel for the month consisted of 606 motor vehicles and 1,807 visitors, as compared with 809 vehicles and 2,799 visitors for the same month last year. The total pre-season travel from October 1, 1932, to May 31, consisted of 2,989 motor vehicles and 9,651 visitors. Last year the travel for the same period was 3,598 vehicles and 10,663 visitors, or a decrease of nine per cent for the present travel year to date. The north entrance has been open throughout the month. The west entrance was opened to travel on May 27 and the sale of permits was begun on that date. Last year these two gates were opened on May 28.

480 - Natural Phenomena

Blue Spring: Two large holes have drained several of the larger basins on the north edge.

Baby Spring: The flow has greatly diminished.

Cupids Cave: The deposits of travertine have built up about the spring about two inches during the month.

Main Terrace: East end active and some basins filled with water, slight activity on west end. Sixty feet to the south, four foot bubbling pool.

Mound Terrace: A slight flow to the north. On the east slope there is a large flow of water and an extensive growth of dark green and chocolate brown algae. New basins have formed during the spring months.

Highland Terrace: Inactive.

Orange Spring Mound: No change.

White Elephant Back Terrace: No change.

Jupiter Terrace: No change.

Pulpit Terrace: No change.

Hymen Spring: Flow decreasing.

Palette Spring: flow increasing. Deposition of travertine rapid.

Minerva Terrace: No change.

Cleopatra Terrace: No change.

Angel Spring and Terrace: Flow increasing, deposition quite rapid - more basins reclaimed - spouting spring to the north increased to six inches in height.

New activity near Tennis Court is covering a greater area; old basins have been refilled to the west. Flow has increased slightly.

530 - Special Visitors

On May 6 Chief Lax Big Man of the Crow Tribe, Crow Agency, Montana, came in Gardiner, accompanied by the superintendent of schools, Crow Agency. They departed the same day.

May 14. About thirty-five Rotarians and Rotary Anns, attending the District Convention in Livingston, made a one day trip in the park.

May 17. A party of Parent Teachers (31 in number) from southern and eastern states, made a one day trip in the park enroute to the national convention in Seattle.

May 19. Captain F. B. Rogers of Missoula came in via Gardiner in connection with E.C.W., and departed the 21st.

May 28. Miss Josephine Chain, National Director Girl Scouts of America, New York City, came in West Yellowstone and departed via the same gateway on the 29th. She was accompanied by Miss Olga Carlson, member of the National Field Staff, Rocky Mountain Region Girl Scouts; Mrs. W. M. Bagley and Mrs. H. J. Plumhoff of Utah, both prominent in Girl Scout work in that state.

May 31. Clark Gable of Hollywood, California, motion picture star, came in the south gate with Superintendent Woodring of Grand Teton Park for fishing in Lewis River and Crawfish Creek, and went out the same day.

600 - Protection

620 - Fire Protection

With precipitation considerably above the average for the past two years, the prospects for a season of slight fire danger seemed encouraging until May 29.

On May 29 a smoldering fire, caused by brush burning along the new road right-of-way between West Yellowstone and Grayling Creek on Forest Service land, was whipped into life by a strong hot wind and developed into a serious fire. The point of origin of the fire was in insect-killed timber and before the fire could be brought under control it had burned over an area of approximately 200 acres, 30 to 40 of which were inside the park line. Approximately fifty men were employed to fight the fire, and during the night of May 29 a crew of twenty-two men from the C.C.C. camp at Mammoth were detailed to the fire.

Most of the damage and expense will be carried by the U. S. Forest Service, the expense of the fire reaching approximately $400.00. The fire was controlled within twenty-four hours.

Mr. George Sutherland, road contractor, will be held responsible for the fire and officials of the Forest Service will bring suit against him for the cost and damage of the fire. The Park Service will submit bills for their share of cost and damage.

One day was spent during the ranger conference on fire protection work, at which time all phases of the fire plan were discussed and a group analysis was made of handling a large fire such as the Mirror Plateau fire of 1932.

900 - Miscellaneous

Post Office - The increase in business in the post office, noted during the winter months, continued through May.

Showing the use of a plow for building fire trench on the West Yellowstone fire, May 20, 1935.

Clean burn along the west boundary where fire crossed into the park from the Gallatin National Forest. The fire burned as intensely as a mid-summer fire.

Church Services - Episcopal services were held in the chapel by Reverend L. W. Smith of Livingston, Montana, Sunday evening, May 21. English Lutheran services were held in the lodge room on Monday evening, May 29, by Reverend Webster N. Clement.

Hospital and Medical - During May, Dr. Budaeff made eighty-six home calls and received one hundred eighty-three office calls.

Federal Employees' Union - The regular monthly meeting of the Federal Employees' Union Local No. 465 was held in the lodge room of the canteen on May 1. President Edwards presided and Superintendent Toll and other members of the local were in attendance.

On May 3 the Geographic Board approved the naming of two lakes and two peaks on or near the eastern boundary line between the park and the Shoshone National Forest as follows: Grant Peak; Lamar Mountain (Mt. Lamar); Stonecup Lake; Guitar Lake. These names were recommended by the Public Survey Office of the General Land Office, which had a party of its engineers under William R. Bandy surveying this section last summer.

Deaths - A. W. Miles, one of the early Montana pioneers who resided in Livingston, Montana, for over fifty years and who for some time was connected with the camping operations in the Yellowstone, died in Livingston May 7. Senator Miles was a Yellowstone Park enthusiast and, as an amateur photographer, delighted in photographing the park features and wild life. He was buried in Livingston on May 11. Messrs. Edwards, Joffe, Baggley and Bauer attended the funeral services in uniform.

Mrs. H. J. Miller, wife of Judge Miller of Livingston, an old time resident of the state, died in Livingston on May 25. The funeral services were held in Livingston on May 28 and Superintendent Toll and Messrs. Edwards and Joffe attended in uniform.

Members of the park organization were saddened by the news of the death of J. W. Johnson, District Engineer for the Bureau of Public Roads, who died in Denver on May 29 after a brief illness. Mr. Johnson was to have arrived in the park on May 28 with Mr. Capes of the Bureau, but his sudden illness necessitated his return to Denver. His many friends in the Park Service regret his passing exceedingly as he was a man of splendid character and a fine official. He was extremely well thought of by everyone who came in contact with him.

American Legion - The members of Park Post No. 23, American Legion, bestowed an honor on their Yellowstone Park comrades when on May 27 they elected Assistant to the Superintendent Joffe as their Vice-Commander for the ensuing year, and Assistant Superintendent Edwards as a member of the

Executive Committee. The Yellowstone Park Legionnaires have been quite regular in their attendance at the monthly meetings of Park Post and have taken as active a part in the work of the post as the distance between the park and Livingston permits. It is the first time that a Yellowstone Park resident has been honored with one of the higher offices of the post, and should do much to cement the fine relationship which already exists between the park officials and Park Post No. 25 Legionnaires. The Mammoth members provided the entertainment for the May 17 meeting. Messrs. Bundley and Watson introduced a new type of radio broadcast, while Mr. Joffe showed three reels of park movies.

A feature of the month was the rangers' conference from May 22 to 25, inclusive, which ended with a baseball game on the afternoon of the 25th between the married and single men, resulting in a victory for the former; and a banquet and dance in the evening.

Emergency Conservation Work - The first of the special quota men for the E.C.W. were shipped in from Livingston on May 26, while the first special quota from Wyoming, sent from Cody, arrived in the park on the 27th. These men were housed and fed at Mammoth pending the establishment of the regular camps. The advance cadres for the construction of camps had been expected to arrive May 26, but they are now expected on June 2. Each cadre will comprise 25 men, and will include a camp commander, some non-commissioned officers and about twenty of the regularly enrolled men. Camps will be established at Mammoth, Canyon and Lake.

Very truly yours,

Roger W. Toll
Superintendent.

MF

Snogo rotary snow plow clearing Dunraven Pass about one-quarter mile south of pass. Snow 12 feet deep just behind plow. Picture taken May 24, 1933.

Dunraven Pass ranger station on May 24, 1933

0-159
y, 1931)

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of May, 1933

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
ber of employees beginning of month	72	34	75	35
ber of additions	2	84	2	188
Total	74	118	77	223
ber of separations	0	19	2	6
ber of employees close of month	74	99	75	217
ber of promotions during month	0		0	
gregate amount of annual leave taken	32		196½	
" " " comp. furlough	89			
gregate amount of sick leave taken	37½		21½	
gregate amount of leave without pay	0		0	

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of [illegible]

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
r of employees beginning of month	72	64	76	[illegible]
r of additions	8	54	2	180
al	74	118	77	239
r of separations	6	54	2	6
r of employees close of month	74	64	75	217
r of promotions during month	4		3	
ate amount of annual leave taken	32		1881	
" " comp. furlough	49			
ate amount of sick leave taken	272		[illegible]	
ate amount of leave without pay	4		0	

0-160

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of May, 1933

	This Year	Last Year
ark revenue on hand beginning of month,	-0-	$ 53.30
eceived,	$ 45.85	76.19
Total,	$ 45.85	$ 129.49
emitted,	30.10	129.49
n hand close of month,	$ 15.75	-0-

ark revenues received this year to date,	$132,093.79
ark revenues received last year to date,	220,588.02
Decrease,	88,494.23
Per cent of decrease,	40.1174

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

[illegible] National Park for the Month of May, 1933

	This Year	Last Year
[illegible]revenue on hand beginning of month,	-0-	$ [illegible]
[illegible]ved,	$ [illegible]	[illegible]
[illegible]al,	$ [illegible]	$ [illegible]
[illegible]ted,	[illegible]	[illegible]
[illegible]nd close of month,	$ [illegible]	-0-

[illegible]revenues received this year to date,	[illegible]
[illegible]revenues received last year to date,	[illegible]
[illegible]crease,	[illegible]
[illegible]er cent of increase,	[illegible]

10-157

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone National Park for the Month of May 1933

	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	603	2878	808	3415	-537	-13
Cars reentry		89		182	- 93	-51
Motorcycles	2	2	1	1	1	100
Total motor vehicles	605	2969	809	3598	-629	-17
Persons entering via motor vehicles	1753	9597	2708	10572	-975	- 9
Persons entering via other private transportation	54	54	91	91	- 37	-41
Total persons entering via private transportation	1807	9651	2799	10663	-1012	- 9
OTHER TRANSPORTATION:						
Persons entering via stages						
Persons entering via trains						
Persons entering otherwise						
Total other transportation						
GRAND TOTAL ALL VISITORS	1807	9651	2799	10663	-1012	- 9

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

0-162

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of May, 1933

	This Month	This Month Last Year	Increase	Percent Increase
LOCAL BUSINESS				
Miles of circuit maintained, ...	542	536	6	1.1
No. of telephones connected, ...	198	189	9	4.8
No. of measured service calls, ...				
No. of other local calls, ...				
Total No. of local calls, ...	6856	7190	-334	-4.6
Peak load in calls per day, ...	346	412	- 66	-16.0
Receipts from measured service calls, . .				
" " coin boxes, ...				
" " telephone rental, ...				
TOTAL RECEIPTS				
LONG DISTANCE BUSINESS				
No. Outbound calls, ...	118	163	-45	-27.6
No. Inbound calls, ...	157	166	- 9	- 5.4
TOTAL LONG DISTANCE CALLS				
Peak load in calls per day, ...	12	11	1	9.1
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-				

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yellowstone National Park for the Month of [illegible], 1[illegible]

	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
rrent generated, ...	[illegible]	639761	61260	[illegible]	[illegible]	[illegible]
ld to park operators, . . .	1505	37714	2010	50113	[illegible]	[illegible]
ld to others, ...						
rnished to other Governmental agencies, ...						
ed by National Park Service, lost in transit, etc., . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total current generated, . .	[illegible]	677475	63270	[illegible]	[illegible]	[illegible]

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

Indicated by K. W. H.

:PARTMENT OF THE INTERIC

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Yellowstone National Park for the Month of May, 1938

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
104 - East Forest Road Ceiling	2	2	0	June 30, 1938

No other projects active.

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Yellowstone National Park for the Month of

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion

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

May, 1933

The month was cool, with a mean temperature of 43.2 degrees, which is 4.2 degrees below normal, the lowest since May, 1918. It was not until the 29th that the thermometer rose as high as 70 degrees. Freezing temperatures were recorded by the minimum thermometer daily during the first two weeks, excepting only two days, the 3d and 4th. On these two days the maximum temperature rose only to 49 and 50 degrees. The month's highest temperature was 77 degrees on the 30th; the lowest, 22 degrees on the 12th. Neither of these temperatures is in any way remarkable for May. Frost was observed rather infrequently for the prevailing temperature conditions, owing to cloudiness and wind. A succession of 11 cloudy days occurred from the 2nd to 12th, inclusive.

Precipitation continues below normal. The total fall was 1.15 inches; the normal for the month is 2.25 inches. The total was considerably less than fell in May, 1932, and May, 1931. Snowfall totalled 1.5 inches, of which 1.4 fell on the 6th. .1 fell on the 8th, and an appreciable amount fell on several other dates, melting as it fell, so that no depth could be given it. On 12 days .01 inch or more of precipitation (rain or melted snow or hail) was recorded. Hail fell on the 2nd to an amount sufficient to cover the ground. The greatest amount of precipitation in any 24 consecutive hours was 0.37 on the 6th. The first, and to date the only, time that thunder was definitely heard this spring was on the 15th.

There were but three clear days during May, with 12 partly cloudy, and 16 cloudy. Sunshine was recorded 55% of the possible time. Southwest wind was registered longer than any other. Average wind velocity was 8.7 miles per hour, with a maximum for the month of 32, from southwest, on the 26th.

W. T. LATHROP,
Meteorologist.

. 1030—Met'l.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

n, Yellowstone Park, Wyo.; *month,* May, 19 33.

Temperature. (Degrees Fahrenheit.) Max.	Min.	Mean.	Precipitation. (In inches and hundredths.)	Character of day.	Per cent. of Possible Sunshine
48	31	40	0	Pt.Cl'dy	62
50	32	41	.23	Cloudy	17
49	37	43	.07	Cloudy	21
50	33	42	.03	Cloudy	43
46	31	38	.04	Cloudy	15
37	30	34	.37	Cloudy	1
43	27	35	T	Cloudy	29
38	26	32	.02	Cloudy	12
45	24	34	T	Cloudy	56
39	25	32	T	Cloudy	30
42	26	34	.01	Cloudy	61
46	22	34	T	Cloudy	55
54	24	39	0	Pt.Cl'dy	66
56	30	43	0	Pt.Cl'dy	72

ATMOSPHERIC PRESSURE.
(Reduced to sea level; inches and hundredths.)

Mean 29.903; highest 30.37, date 28
lowest 29.46, date 22

TEMPERATURE.

Highest 77, date 30; lowest 22, date 12
Greatest daily range 39, date 29
Least daily range 7, date 6

MEAN FOR THIS MONTH IN—

1871	82	93	42.8	04	45.3	15	42.8	26	48.4
1872	83	94	49.8	05	42.0	16	40.0	27	41.0
1873	84	95	46.0	06	44.8	17	42.0	28	50.3
1874	85	96	41.4	07	42.6	18	42.5	29	43.7
1875	86	97	54.0	08	43.3	19	46.6	30	48.5
1876	87	49.4	98	45.0	09	42.3	20	43.4	31	46.4
1877	88	45.6	99	42.4	10	46.4	21	44.6	32	47.2
1878	89	46.8	00	50.5	11	44.2	22	44.6	33	43.2
1879	90	49.6	01	52.2	12	43.1	23	45.8	34	
1880	91	49.8	02	48.4	13	46.0	24	46.8	35	
1881	92	42.1	03	44.8	14	47.9	25	48.1	36	

Normal for this month 47.4
Absolute maximum for this month for 46 years 89
Absolute minimum for this month for 47 years 15
Average daily excess (+) or deficiency (−) of this month as compared with the normal −4.2
Accumulated excess (+) or deficiency (−) since January 1 −337
Average daily excess (+) or deficiency (−) since January 1 −2.2

PRECIPITATION.

Total this month 1.15; snowfall 1.5
Greatest precipitation in 24 hours 0.37, date 6

U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION

.....

.....

MONTH

....., 19

8—1650 U. S. GOVERNMENT PRINTING OFFICE: 1929

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

May 8, 1933

CIRCULAR NO. 3.

Effective May 27, 1933, and until further notice all waters in Yellowstone National Park will be open to fishing, with the following exceptions:

LAKES. Lost Lake near Tower Falls; Grebe Lake in Canyon District, Buck, Shrimp and Fish Lake near Soda Butte.

STREAMS. The following tributaries of the Madison River which have their sources in Yellowstone National Park, which includes Campanula, Cougar, Maple, Duck and Gneiss Creeks; all streams which are trapped by the Bureau of Fisheries shall be closed from the mouth of the stream to one mile above the traps during the trapping season.

SPECIAL AREAS. Squaw Lake and Yellowstone River, one hundred and fifty yards above Fishing Bridge to the Upper Falls, will be closed until June 20.

SPECIAL LIMITS. The five fish per day limit in Yellowstone Lake shall continue in effect and shall apply to the area within two miles of the boat docks at West Thumb, Lake Hotel and Fishing Bridge. Parties taking boat trips to the remote parts of the lake will be allowed the limit of ten fish per person.

All closed waters will be posted by the district rangers with the exception of those streams being trapped by the Bureau of Fisheries, and which will be posted by the Bureau while such traps are in operation.

FISHING REGULATIONS:

TEN FISH PER PERSON FISHING SHALL CONSTITUTE THE LIMIT FOR A DAY'S CATCH, EXCEPT IN CERTAIN WATERS WHERE THE LIMIT MAY BE DECREASED OR INCREASED AS INDICATED BY POSTED NOTICES. NO ONE PERSON SHALL HAVE IN HIS OR HER POSSESSION AT ANY ONE TIME MORE THAN TWO DAY'S CATCH.

THE USE OF LIVE MINNOWS FOR BAIT IN ANY OF THE WATERS WITHIN THE PARK IS PROHIBITED.

Roger W. Toll
Supperintendent

POSTMASTERS: Please post.

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

May 13, 1933

CIRCULAR NO. 4.

The following are the assignments for the permanent ranger force for the summer of 1933. All rangers will be transferred to their duty station just as soon as possible. Unforeseen contingencies may necessitate a change in duty assignment at any time.

George F. Baggley	Chief Ranger
George W. Miller	General Assistant
Francis D. LaNoue	Asst. Chief Ranger
Fred T. Johnston	Forest Assistant

Buffalo Ranch

Joseph Douglas	Chief Buffalo Keeper, in charge of the Buffalo Ranch and all hay ranches.
Thomas D. Phillips	Asst. Chief Buffalo Keeper
David W. Pierson	Buffalo Herder.

Mammoth District
Under direct supervision of Ranger Office

Gerald P. Yetter	Gardiner Checking Station
Clifford L. Anderson	Buffalo Corral
F. Sheldon Dart	Utility man
Guy E. McCarty	Norris Ranger Station

Tower Falls District

E. L. Arnold	In charge
John Bauman	Slough Creek Ranger Station
Roy C. Brown	Hellroaring Ranger Station

Soda Butte District

Curtis K. Skinner	In charge
Walter Gammill	Cooke Ranger Station