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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO.

MONTHLY REPORT

November, 1938

IMPORTANT

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ARNO B. CAMMERER,

U. S. GOVERNMENT PRINTING OFFICE: 1933

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Director.



DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE YELLOWSTONE NATIONAL PARK

YELLOWSTONE PARK, WYO.

FILE OF THE SUPERINTENDENT

December 5, 1938

Memorandum for the Director:

The following is the report of activities for Yellowstone National Park during the month of November, 1938:

000 - General

The month was the second coldest November of record with a mean temperature of 22.2 degrees, being exceeded only in 1921 when the mean temperature was 21.2 degrees. Two sub-zero temperatures were recorded, 2 degrees below zero on the twenty-second and 10 below on the twenty-third. The highest temperature recorded during the month was 41 degrees above on the twenty-eighth. There were five clear days during the month, six partly cloudy and nineteen cloudy, with a measurable precipitation occurring on ten days. The total precipitation for the month amounted to 0.63 inch, which was 0.11 inch less than normal for November. Two and three tenths inches of snow fell on November 4, and at the end of the month there remained 2.4 inches of snow on the ground.

The storm of the fourth closed the East and South Entrance roads to travel and they were not reopened during the month. This storm was responsible for our discouraging travel, and press notices were sent out to the effect that all roads were closed to travel except the north line road from Gardiner to Cooke which we contemplate keeping open throughout the winter for the benefit of Cooke residents, and in order to make available to winter visitors the excellent wildlife show in this area. A special appropriation has been received for keeping this road open during the winter. Because of the Public Works projects under way at the Lake and Thumb, the roads to those areas were kept open to permit travel for our own employees.

On November 8 all of the Bureau of Public Roads crews had discontinued work with the exception of one crew engaged on the tunnel near Crescent Hill. The last operating contractor, Max J. Kuney, who has the Lamar Canyon-Northeast Entrance surfacing project, closed down operations and moved in his crew on the ninth.

A small fire occurred on November 14 in the tent quarters occupied by Carpenter Arneld Westover. The fire was evidently caused by an over-heated stove. The tent was entirely demolished and most of the contents were destroyed.

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE YELLOWSTONE NATIONAL PARK YELLOWSTONE PARK, WYO.

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On November 19 the Bureau of Public Roads delivered to the park the F.W.D. truck and rotoblade snowplow purchased with Park Service funds and used by the Bureau in keeping open the Red Lodge-Cooke road from Richel Lodge toward the summit. This snowplow is to be placed in the regular Park Service equipment pool and will be used during the winter in helping to keep open the roads around Mammoth and the road from Mammoth to Cooke. The plow is to be returned to the Bureau of Public Roads at Red Lodge in the spring for use in opening the Red Lodge-Cooke highway.

Following closely the death of his wife, which occurred on October 9. Chester A. Lindsley, an oldtime employee of the National Park Service, passed away in Livingston at the Lott Hospital early Thanksgiving morning, November 24. Mr. Lindsley first came to the Yellowstone in 1891 and was employed that fall as a clerk with the War Department, then administering the park. He rose to the position of Assistant Superintendent and in 1916 when the National Park Service was created became the first Acting Superintendent of the park under the new Service. He was in charge of the park until 1919 when Horace M. Albright was appointed as the first civilian Superintendent under the National Park Service. In 1922 Mr. Lindsley was made Postmaster at Mammoth when the post office was moved from the Whittaker Store to the bachelor building, and he occupied this position until June 30, 1935 when he was retired. Mr. Lindsley spent his remaining years on the west coast in the winter and in and around the park in the summer, working for two summers for J. E. Haynes, the authorized park photographer. Both he and Mrs. Lindsley became ill early this summer when they came to the park and visited their daughter at the Cooke ranger station. They spent the entire summer and fall under the doctor's care, and both were in the hospital most of the time. Following Mrs. Lindsley's death, Mr. Lindsley's condition became worse and his passing was but six weeks following that of his wife. Funeral services were held in the Episcopal Church in Livingston on Saturday, November 26, with Joseph Joffe, Francis D. LaNoue, Egbert Newberry and R. J. MacDonald of the park, Clarence Scoyen of Gardiner, and Dr. F. S. Way of Livingston acting as pallbearers. Burial was in the Sunset Hills Cemetery in Bozeman in a plot alongside of Mrs. Lindsley. Mr. Lindsley was sixty-six years of age when he died. During the past two years the two oldest families of the park, the Chester A. Lindsley and Lercy Hill families, have passed on. Mr. Lindsley is survived by a daughter, Marguerite L. Arnold, wife of LeRoy Arnold, a Yellowstone Park ranger stationed at the Northeast Entrance.

On November 22 the Director advised us that the Board of Geographical Names had approved the name "Mount Hornaday" for the mountain on the divide between Soda Butte and Slough Creeks in the northeast section of the park, named in honor of Dr. William T. Hornaday, zoologist, author, and conservationist. The mountain is located near the Buffalo Ranch, this particular feature being selected because of the important part Dr. Hornaday played in the conservation of the park's buffalo. On November 19 the areau of Public Aceas delivered to the perk the F.W.B. truck and retableds enouples purches. in Earl truice funds and used by the Purcau in keeping of the and hold e-focker resident Lodge toward the summit. This enouples is to a placed in the revalar Park Service equipment pool an will be also during the winter in helping to keep open the roads eround ham oth and the read from Emmanth to Gooke. The plow is to be resurned to the lureau of Public Loads at Red Lodge in the apring for use in opening the H d Loge Cooke highway.

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On November 28 the park people were surprised to learn of the marriage on that date in Butte of District Park Ranger Frank Anderson to Miss Patti Hopkins of Lewiston, Montana. Miss Hopkins was employed during the past summer at the Hamilton Curio Shop at the Canyon Lodge, at which point Ranger Anderson was stationed. The newlyweds moved into their winter home at the Bechler River Station in the southwest corner of the park, traveling by automobile and sleigh since that section of the park is now entirely shut off from motor transportation. Mr. Anderson's marriage removes the park's most eligible bachelor.

020 - General Weather Conditions

A summary of the general weather conditions in the park as reported by the U. S. Weather Bureau at Mammoth will be found attached to the back of this report.

021 - In the Park

An exceptionally stormy period prevailed during the first three weeks of the month and, with clearing weather after the 22d, a number of very low temperatures were recorded. The lowest temperature, -35° was reported from the West Yellowstone ranger station on the morning of the November 23. On this same date and for several days following temperatures as low as 20-24 degrees below zero were reported from most of the interior stations.

Snow depths at the close of the month varied from about 12 inches along the north side of the park to somewhat more than two feet in the Bechler River and Snake River districts.

The only roads which remained open to travel during most of November were the Mammoth-Cooke, Mammoth-Lake, and Mammoth-West Yellow-stone roads. It was possible to travel to Old Faithful without great difficulty until November 15. The road from Mammoth to Lake remained passable throughout the month due to the fact that construction activities were being carried on at Lake and West Thumb and a snow plow was used to maintain the road.

022 - Approaches to the Park

The South Entrance approach road remained closed throughout the month of November. On the east side of the park the road from Cody to the east entrance was maintained by a construction crew which was still

Dam Supid worked oversice on the rule. Serveneel, to a reinflaving been consumated during the routh. On somber 1. Nords couper's object in the Superintendent: of fice, the priest to lar of outlies of Cardiner in Deer Lodge, onthis. In Service of Policy on the the Yellowstone Park Company and the narran of rulic Found during the past summer, and it now employed in the past office in Calinary couple are noting their bond in the art of the louse as same office.

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022 - Approaches to the large

The South Entrance approach road remained closed throughout the month of November. On the cast side of the park the road from today to the cast entrance was maintained by a construction arm which a fill

engaged in reconstruction of the East Entrance approach road at the close of the month. However, no travel was possible from the east entrance into the park as this route became blocked with snow during the latter part of October. The approaches from the west from Ashton, Idaho and Bozeman, Montana were maintained throughout the month by state maintenance crews; with the exception of short intervals during storm periods it was possible to travel these routes without difficulty. The road from Livingston, Montana to the north entrance remained in good condition except for a few icy sections.

023 - In Nearby States

In Wyoming the highway over Twogwotee Pass became blocked with snow on November 20 but the route over Teton Pass remained open throughout the month and is being maintained by Wyoming snow removal equipment. The southern route through Heback Canyon remained in good condition for travel. In other areas surrounding the park, road conditions were reported as good with the exception of icy sections in mountainous areas.

100 - Administration

110 - Status of Work

Superintendent Rogers was in the park until November 11 when he left by car for Denver, arriving there on the night of the twelfth. He left Denver by train on the sixteenth and on the eighteenth reached Washington, where he will be assigned a special detail until about the middle of March. Assistant Superintendent Emmert became Acting Superintendent following Mr. Rogers: departure, and during Mr. Emmert:s two absences during the month Assistant to the Superintendent Joffe was Acting Superintendent. Acting Superintendent Emmert left for Thermopolis, Wyoming on November 20 to attend a meeting of the Montana-Wyoming water compact, returning to the park on the evening of the twenty-second. He departed again on the thirtieth by car for Denver to attend the Missouri liver Drainage Basin committee meeting and will be gone until about December 6.

Park Engineer C. A. Lord departed by car for Boise, Idaho on the twenty-ninth to attend a meeting of the Snake River Drainage Basin Committee. He will be gone until December 3.

Several employees availed themselves of the opportunity to take annual leave, as it is practically impossible for any employees to get leave during the summer season.

Megritt M. Grant of Sheridan, Wyoming entered on duty as a clerk, grade 8, \$1800 per annum, on November 1, having been selected from the Civil Service register of the Thirteenth District.

Park Rangers Lee L. Coleman and Earl M. Semingsen were promoted

engaged in resonstruction of the Tast Spirios appress ions of the close of the month. However, we bravel it possible from the ast entrance into the park as this rance bosase blooked with ever corner the latter part of October. The apprechasine the the ment included Talic and resemen, Mentana were at thing there there the mentals by state maintenance crews; with the exception of turn intervals during state periods it was possible to travel these revies therefore The readition except for a few ley sections.

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Perk Rengers Lee L. Coleman and Tarl L. Semingsen were projected

from grade 8 rangers to district park rangers, grade 10, effective November 1.

District Park Ranger David deL. Condon returned to the park on November 2 from Scotts Bluff National Monument where he had been assigned for several weeks as acting custodian.

A special ranger examination was conducted by the Secretary of the local Civil Service Board on November 18 for Hugh Ebert to test his fitness for permanent park ranger work.

Assistant Superintendent Emmert represented the Park Service at a meeting of the Livingston Chamber of Commerce on November 18 which was a sort of farewell for L. C. Morrison, Secretary, who has accepted a position as Secretary of the Sheridan, Wyoming Chamber of Commerce.

Assistant Park Engineer Frank Lucas left on an extended leave of absence on November 18 to be gone until about the middle of January.

120 - Inspections by:

121 - Superintendent and Acting Superintendent

November 9 - With Messrs. Joffe and Haynes to Undine Falls and to roadside beaver exhibit and return Mammoth.

November 11 - Left for Denver by automobile; Assistant Superintendent Emmert acting.

November 12 - Arrived Denver.

November 13, 14 and 15 - In Denver.

November 16 - Left Denver for Washington, D. C.

November 17 - Enroute to Washington, D. C.

November 18 - Arrived Washington, D. C.

November 20 - Acting Superintendent Emmert left by Government car for Thermopolis, Wyoming.

November 21 - In Thermopolis.

November 22 - Returned Mammoth in evening.

November 25 - Emmert to Thumb and return.

November 30 - Emmert left by car for Denver to attend Missouri River Basin Drainage committee meeting.

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122 - Special Field Representatives of the National Park Service

James K. Somerville, Assistant Landscape Architect from Omaha assigned to the Yellowstone throughout the summer departed via the north gate November 4 to return to Omaha.

Sanford Hill, Resident Landscape Architect, assigned to Yellowstone throughout the summer, departed via north gate November 6 to return to Omaha.

Adolph Murie, Wildlife Technician CCC, Omaha, in north November 12; out north twenty-fourth.

Charles Baldwin, Field Auditor CCC, Omaha, in north twenty-eighth; out north twenty-ninth.

Frederick T. Priester, Acting Inspector CCC, Omaha, in north November 28; out north twenty-ninth.

William E. Robertson, Regional Engineer, Omaha, who arrived via north gate October 31, departed via same gateway November 2.

123 - National Park Service Officers

Clark J. Wells, Associate Engineer, National Park Service, Washington, who arrived via north gate October 25 to assist on PWA maters, remained in the park throughout the month.

Earl Brown and Marlowe Glenn, Accountants, National Park Service, Washington, who arrived in the park on October 27 and went direct to Grand Teton National Park, returned via the west gate November 1. Out north fourteenth for Glacier.

125 - Other Governmental Officers

H. B. Hommon, Sanitary Inspector in Charge, U. S. Public Health Service, San Francisco, who arrived via the north gate on October 28, departed via the same gateway November 2.

140 - Labor Situation

With most of the projects in the park shut down, the park offered little employment. All Bureau of Public Roads crews with the exception of one had left the park by November 8, and the one remaining contractor on the Lamar Canyon-Cooke job closed down on the ninth. The Yellowstone Park Company and the other park operators had no projects under way which required the employment of any men. The National Park Service on a small crew and employed a small number of men in connection its PWA projects at lake and Thumb.

122 - Snepiel Held Representatives of the . . tion : Sarvice

James 7. Somerville, Assistint Endocape Architect from Unaha assigned to the lellowers throughout the surver departed victor attention gate Movember 4 to return to Mana.

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150 - Equipment and Supplies

There were seven carloads of coal, two carloads of gasoline and one carload each of fuel oil, pine lumber and cement received in addition to other shipments of asbestos, Hi-Test gasoline, lubricating oil, nails, fuel oil storage tanks, fire brick, steel boiler, wall-board, plumbing supplies, oak lumber, cook stove, heating stove and steel plates weighing 53,696 lbs.

The value of the storehouse issues during the month amounted to \$10,843.63. Annual property inventories were taken of the Gallatin ranger station, Game Ranch, Chief Ranger's office, ranger barracks, ranger storeroom and jail building. The Messes at West Thumb, Old Faithful and Canyon were closed during November, leaving two messes in operation.

160 - Status of Alienated Lands

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

170 - Plans, Maps and Surveys

Field work consisted of completion of surveys for Public Works projects at West Thumb and Lake-Fishing Bridge areas and construction engineering for these projects. The topographic survey of about 200 acres in the Bridge Bay area was also completed. Topographic data in the West Thumb and Lake-Fishing Bridge areas was plotted.

Engineering on CCC projects consisted of running alignments on the south end of the Mammoth Campground road and setting slope stakes.

180 - Circulars, Placards, Publicity Bulletins, Etc.

Circulars Nos. 21 to 24, inclusive, were issued during the month and copies are attached.

There was no issue of Nature Notes during the month, but the November-December issue was in the process of preparation and will be issued early in December.

A press memorandum regarding the closing of the roads and accommodations in the park was released on November 1, and a story of the tree-climbing grizzly on the ninth.

The dummy for the 1939 Motorist Guide was mailed to Washington on the nineteenth.

150 - squipment and Supplies

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200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

The crew setting snow stakes and fences finished this work and the crew repairing the slides on the Mammoth-Gardiner road worked all month completing the job. The snow plow opened the road to West Thumb twice during the month to permit travel to the FWA projects at Lake and Thumb, and on the last of the month the plow opened the road from Mammoth to West Yellowstone to the Gallatin ranger station in order to move the renger to Mammoth. Roads are now open from Mammoth to West Thumb and to West Yellowstone.

220 - Improvements

Shops - In addition to the usual maintenance of equipment carried on, there were six trucks overhauled and stored at Memmoth for the winter and four graders overhauled and stored at Norris. Considerable time was spent inkeeping the Cooke, West Thumb and West Yellowstone roads free from snow.

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

Telephone service was installed in the three new cottages just completed. The park lines were changed from metallic circuits to ground circuits on November 8 for the winter season.

A new 15-watt, 32-volt DC radophone was recently received and installed in the Bechler River ranger station.

Carpenter Shop - In addition to minor repairs during the month, two new crates were made for shipping buffalo, a 50,000-gallon concrete water reservoir was built at West Thumb and the cutting out and framing of three fire lookout stations.

Paint Shop - Work in this department consisted of the supervision of painting done under the ERA, laying linoleum in one of the new cottages at the Mammoth cappround, replacing glass in numerous storm sash and making and lettering of signs for the Game Rench area.

Plumbing Department - In addition to the usual maintenance and operation during the month, 100 feet of 4-inch water pipe and 150 feet of 3/4-inch water pipe were installed at the new cottages in the Mammoth campground, installation of new radiators and hot water heaters in several of the government buildings, ex cavation for and installation of six new dry toilets at the Fountain Paint Pots, and making pipe connections to the new concrete reservoir at West Thumb.

230 - New Construction

Work on ERA projects progressed satisfactorily during the month.

200 - Winterause, Improvements ad ew concernition

210 - Road at item mor

The erow setting the fildes on the learneth-further road worked all month ere is a point the setting the file. The set plan operation when the content at the setting the court to permit travel to the PAR projects at the and during the month to permit travel to the PAR projects at take and Thumb, and on the last of the menth the rlow opered the road from semination to the tellowstone to the Calletin ranger station in order to move the reager to remark to test flower to the court of the set Yellowstone.

220 - Ingrovencets

Shops - In addition to the usurl mainter co of equipment carried on, there were six trucks overhauled and stor d at sensoth for the winter and four graders overhauled in stored at cris. Considerable time was spent indesping the Cooks, here thunk and 'set Y'llewstone roads free from snow.

Flootrical Department - The world - rtine s d repairs mere

Telephone ervice was installed in the three n w cottages just completed. The park lines were charged from testilic directs to promisionality or Kovember 3 for the inter secsor.

A new 15-watt, 32-volt DO rado hone was recally recived and instilled in the Beckler hiver ranger strtier.

Carpenter Shop - In addition to minor recors turing the noth, two new crites were made for shipp thinks to 50,000-gallon comprete water revolve was built at lest Thurb and the cupting out and froming of three fire lookout stations.

Paint Shop - For in this department consisted of the servicion of painting lone under the TA, tayin, lindlenn in one of sew cottages et the Memoria conground, replacing place in numerous singuistant and meting a signs for the Came Lanca area.

Flumbing Department - In addition to the duel saluterance and operation during the morth, 100 feet of 4-inch weber pile and 150 feet of 5/4-inch vater pire were installed at the new cortages in the right of ground, install then of new resilitors and hot water lead in in assertal of the government buildings, an osvation for and installation of six new dry toilets at the Fountain Paint Pois, and estimation connections to the new concrete reservoir at 15th humb.

230 - New Construction

ork on "RA projects you resend satisf config daring the coth.

These projects include: Cleaning and painting the chapel and museum buildings, repairs to barracks building; work on sign program, including cutting and hauling timber for signs and work in sign shop; excavation of basement under personnel quarters, hauling sand from Tower Falls and gravel from Gardiner for the various projects, and work on the Yellowstone River and the Gardiner River-Golden Gate trails.

Project O.P. 266 - Work was continued on the West Thumb-Lake-Fishing Bridge water systems which was started last month.

At Take the work was largely confined to prospecting for water along the lake shore. Three holes varying from 60 to 100 feet in depth were drilled in addition to the original dug well. No appreciable smount of water was found in any of the holes.

At West Thumb the excavation for the new 50,000-gallon reservoir was completed and all the concrete poured. The concrete slab roof for the existing reservoir was also completed. Work on the well at Thumb was suspended for the winter early in the month.

Sand and gravel were hauled and piled for use next summer at both locations.

Project 584 - Work on the Lookout Point observation platform and Canyon trails was suspended for the winter on November 8. Practically all necessary construction material had been hauled to the site preparatory to starting work as soon as the weather opens up in the spring.

Contract Construction - The only road project active during the month was that on the East Entrance approach road on which satisfactory progress was made.

On November 7 the park received notices of bids to be opened by the Bureau of Public Roads in Denver on December 6 for constructing and improving Project 1-A-3, grading, bridge and bituminous surfacing of .926 miles of the Grand Loop; and to be opened on November 22 for constructing and improving Project 1-E-1, Pt. F-1, 5-D-1, D-2, Pt. C of Grand Loop and East Entrance. On November 21 notice was received of bids to be opened by the Bureau of Public Roads in Denver on December 2 for constructing and improving Project 4-A-2, bituminous surfacing of South Entrance highway, 10.214 miles.

Bids were received in Denver by the Bureau of Public Roads on No-vember 22 for improving and constructing Project 1-E-1, Pt. F-1, 5-D-1, D-2, Pt. C. of Grand Loop and East Entrance bituminous surfacing. The Taggart Construction Company of Cody was the low bidder with a bid of \$306,647.45, and award was recommended.

these projects include: Cleuring and rainting the change in riser wildings, ripairs to b macks omilding that the sign and right shops exting outting and neuling of the for signs of out in aign shops exception of tractor and and aller person of quarters, realist and gravel from G rainer for the various projects, and wark on the Vellorstone wiver and the Carcher liver-addences orails.

froject C.P. 2c6 - or was continued or tis lest thurs-just-

the lake the vork . I lar ely confired to prove obling for mater and long the lake though . Thrue holes verying from the 100 lest in depth were drilled in addition to the original to well. . I entertable mount of wower western in any of the holes.

At west liming the measuring der the new \$0,000-gelle reservoir ness to pleted and all the concrete pournd. The concrete ship reof for the cristing reservoir was les completed. The content well of the was suspended for the vinter early in the month.

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Freject 584 - ork on the Longest Cint elservation plaiform and Canyon Wells was a apended for the mister as evenier 5. Protection attential had been hauled to the rite properatory to starting work as soon as the restly of may up in the spring.

Converset Construction - The cally road project sotive ouring the month was that on the first Entrance approach road on which satisfactory progress was made.

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bids were received in perceit by the Fore work tablic beas on her verber 22 for improving and construction Project intellect. Pl. 11, 5-D-i, D-2, Ft. 7. of Grand Loop and Last Intellect blandmous surrelay. The Tageart to astruction Commany of Gody was the lew bigler with a rid of \$30.647.45, or a sard was recommended.

300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

All operations in the park of the various operators had closed down before the first of the month with the exception of the general store at Mammoth, which remains open throughout the winter to accommodate local residents.

William M. Nichols, President of the Yellowstone Park Company, stopped off in the park on November 6 on his return from Washington to Helena for a conference with the park superintendent. He arrived and departed via the north gate on the same day.

J. E. Haynes, President of Haynes, Inc., the last of the park operators to remain in the park, departed via the north gate on November 13 for St. Paul.

400 - Flora, Fauna and Natural Phenomena

410 - Renger, Naturalist and Guide Service

Ranger activities during this period have included intensive boundary patrols in those sections where hunting has been carried on adjacent to the park, supplying patrol cabins for winter use, checking travel at the entrances, patrolling roads, supervision of trail maintenance work and the preparation of range studies, forestry, wildlife and other reports.

420 - Museum Service

The duties in the Naturalist Department consisted of a number of field trips, research, the editing of the November-December Nature Notes in preparation for publishing early in December, museum labels carried on by CCC enrollees, and library work carried on by ERA and the Yellow-stone Library funds.

470 - Animals

Buffalo - Between 200 and 300 buffalo grazed in the Lamar Valley at Horseshoe and on the Hellroaring slopes during the month and a few of these animals were also seen in Haynen Valley near Canyon and near Turbid Lake.

Elk - By the end of November snow covered most of the northern winter range but the depth and texture of the snow was not great enough to limit foraging of game animals to any great extent. Sub-zero temperatures and snow depths in the interior of the park caused the greater portion of the elk herd to migrate to lower altitudes and by the end of the month large numbers were seen in the Lamar Valley and approximately

100 - Astivities of Other Agench a in the 7 mi

310 - Public Pervice Contrastors

All operations in the price of the verticus of eraters can cause down outers the first of the food with the exception of the receive at lease the thick the value to the case of the local residents.

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110 - Kanger, Taturalist and Juide Service

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The dubles in the laturalist Department as sixted of a namer of field trips, research, the entains of the Jovenson-Industry. The entains a foveneration for subliching early in modelher, a sexual later current on by 500 enrolless, and library may carried on by 500 enrolless, and library may carried on by 500 enrolless.

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Buffels - Setsech 200 cad 300 por also rat I in the Loner ralies at Horseshoe and on the Hellrostim alopes during the earth ad a low of these saimals were elso seen in Hayren Valley user Danyo and near Turbid Lake.

Fix - if the end of Forencer appropriate and of the northern wirter Tenge but the devin and tenture of the army as nor grate to any the limit foreging of an enduale to any grate and the finit foreign of the same and show depths in the interior of the park caused the grater fortion of the elk herd to migrate to lower eltitudes and by the end of the month large numbers were so in the lamer Velley and opposituate in



On July 18, 1938, a large black bear at the Buffalo Ranch feeding in a milk can became securely trapped in the container.



It was necessary to use ropes and two motor trucks to extricate the bear from the can. After considerable tension had been applied to the ropes the can popped off the bear's head like a cork out of a champagne bottle and the animal took to the hills apparently none the worse for his experience.



1,000 were counted on the Hellroaring slopes. No heavy migration to open hunting territory occurred in November.

The hunting season in Wyoming closed November 15 and the deer season in Montana was also closed on this date. The elk season in Gallatin County, Montana closed November 19, with a total kill of 545 in the Gallatin area and 95 from the West Yellowstone section. The Idaho elk season opened November 15 and a number of these animals were being taken from areas near the park boundary adjacent to the Bechler River district.

Comparative hunting kills on areas adjacent to the park through November 26 were as follows:

V	Bear	Bighorn	Deer	Elk	Moose
1938-39 1937-38	14t	25	3 33 1 56	1114	15

480 - Phenomena

Mammoth Hot Springs Area

Palette Terrace - The run-off is still concentrated to the west of the Devil's Thumb with further shifting to the west. The entire formation is covered with a thin film of water and colored beautifully by algae. There is no apparent change in the quantity of water noted last month. Nineteen iron pegs have been placed in desirable positions over this formation to measure the deposition of travertine and the run-off of water.

Minerva Terrace - This spring is still overflowing in two places separated by a strip of ice forty feet wide. The total run-off appears to be approximately the same as that of last month. All of the water continues to flow from the same vent. There is further extension of the water to the old stalactitic formations and it is believed that this terrace will continue to rejuvenate.

Cleopatra Spring - There has been a noticeable decrease in the area of this formation covered by water. At the present time the total width of the terrace covered by water does not exceed forty feet. This is due to the fact that an entirely new vent twenty-nine feet northwest of the old one has broken out, and most of the water is issuing from it, pouring over the face of the old terrace in a rather narrow channel. That part of the spring which was most beautiful last month is now covered by snow and ice. The small new vent one hundred feet back of the main vent noted last month is now dry.

New Spring - This spring situated below Summit Basin has become much constricted. All of the water is flowing due west, freezing into a sheet of ice one hundred feet below the vent. Northwest of this spring on the edge of Main Terrace, the two springs noted last month are now dry.

11

1,000 were count d on the H liming lop s. To heavy migration to open hunting territory occurred in locamber.

The hunting searon in yo in closed ovember 1 md the deer season in tinter, was also closed on this dite. The elk ce son in fallatin County, content closed towerber 10, with a total ill of 325 in the Callatin area at 95 from the cet fello standard the sationals and the content of the aritals rebeing taken from ereas near the part boundary saje out to the chler Hiver district.

Corrective hunting kills on areas adjacent to the park through

NOOSE	112	Deer	Bighorn	Bear	
	1111	333 156	ਰ ਼ ਨੇ	Ca Ca	1932-39

1480 - Phenomena

Lord agains dell month

Palette errace - The run-off is still a rentrated to he est of the Dovil's Thumb with farther abiliting to the est. 10 entire formation is covered with a thin film of veter and color d bead ifully by elgas. There is no apparent change in the quintity of the rute last month. Insteen from page have been placed in definition to measure the deposition of travertine no the run-off of water.

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New Spring - This spring situated below Su it installs become much constricted. All of the water is flowing due vest, freezing into a she t of ice one hundred feet b lew the vent. North, st of this spring on the edge of six Terrace, the two springs roted last north are new dry.

Mound Spring - This spring seems to be the most stable one, and no change is noted from last month.

Main Spring - This spring also remains unchanged.

Blue Spring - The run-off which started to fill basins to the north at the time the last observations were taken has completely filled these basins, which were dry all summer, and the flow continues strong. In many places on the formation covered by Blue Spring a deposit one and one-half inches thick has been measured on sticks which were placed in various positions along channels and terraces November 18. A stronger flow of water is noted here then from any other spring.

Cupid Spring - The amount of the formation covered and the quantity of water are approximately the same as last month.

Baby Spring - This spring appears to be the same as when last observed.

Orange Spring Mound - The small quantity of water noted last month is definitely smaller this month, and the activity is scarcely noticeable except in a small section of the west side.

Gas Vents - Four to five winter birds were observed in the dry part of the craters of Painted Pool. No other casualties were noted in other gas vents.

Poison Cave - The gas is so heavy in this cave that it is impossible for one to breathe or keep the eyes open for an instant, and the choking sulphurous fumes of sulphur dioxide and carbon dioxide are present in larger quantities in this cave than is known at any other point in Yellowstone.

Angel Terrace - The main vent on this terrace went completely dry during the month. However, a new vent thirty feet to the south is substituting very nicely, and an even greater portion of the formation is covered and beautifully colored by algae. Two other vents south and west are active on the old formation.

Opal Spring - The flow of this spring is approximately the same as last month, and the trench into which the water was disappearing November 1 is now filled.

Naiad Spring - Along with Mound, this spring remains one of the most constant and unchangeable.

490 - Miscellaneous

Elk Reduction - The portable elk trap was moved from the Slough Creek mail box to a new location below the Mammoth housekeeping cabins this month. The Gardiner and Game Ranch traps were also being repaired Hound Saring - Wals apring seems to be die so. . table one, and no change is noted from last worth.

ain Spring - This spring all o re hire unches ud-

Plus Ipring . The run-ouf mis. started to fill easing to the north at the time that observe items for skelling confidences for these basins, which were try all summing soid of flow continues strong In many places or the for them cover doy blue Spring a depositions and one-half inches thick has been used from a ticks which ere rise of my ricus positions along claracles and time of the terminals of the spring.

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eis de ac aniem rentes partes this spring remains or a cit de most constant and unchangeable.

150 - Macellaneone

Mik Feduction - 1 to portable elk trep was moved from the clough Creek mill box to a new location below the Mamoria has skeeping soble stills month. The endiner and Gale manch traps or also being regimen

and will be ready for operation in December. Orders have been received for shipment of 76 live elk and there is a possibility that several additional requests will be received in the near future.

Ranch Operations - The horse herd was taken to the Buffalo Ranch on November 15, where 61 head of horses were pastured for the remainder of the month. No hay was fed during this period as the horses were able to forage for themselves in the ranch fields.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease in Travel

A considerable decrease in park travel for November was probably due to the long period of very stormy and disagreeable weather. Travel included 33 first entry cars, 36 re-entry cars and 191 people. Five hundred sixty-one people entered the park during the same month last year. Although a considerable decrease in travel occurred this month, travel for the year still shows an increase of 50 per cent. More complete travel figures are given at the back of this report.

530 - Special Visitors

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

600 - Protection

610 - Police Protection

Seven arrests were made during the month for hunting and for carrying unsealed firearms within the park. Louis Seifert of Bozeman, Montana was fined \$25.00 on November 15 upon being convicted of killing two elk in the Gallatin area. August Hein and Walter Hein, brothers, of Forsyth, Montana were fined \$50.00 each and their rifles confiscated on November 21 when they were convicted of killing three elk in the Reese Creek area. William Schulenberg and Vernon Drung, both of Forsyth, Montana, were fined \$5.00 each and their rifles confiscated on November 21 upon being convicted of carrying unsealed firearms in the Reese Cfeek area. Norman Riethmuller and Frank E. Waddell, both of Billings, Montana, were fined \$12.50 each and their rifles confiscated on November 28, upon being convicted of hunting in the Game Ranch area. The above violations resulted in 5 elk being killed within the park and the fines totalled \$160.00. Six rifles were confiscated.

620 - Fire Protection

No forest fires occurred within the park boundaries during November.

630 - Accidents

No automobile accidents were reported during the month. For the same period last year four automobile accidents were reported.

and will be ready for eperation in leverior. Order is read to von for ship read of 76 live alk ind fore is a positility to a soluted a different requests will be readired in the for fature.

recond Operations - The horse berd was the solution of the sale rendered on November 15, we set the set of the operation of the operation of the operation of the contract of

500 - dae of lark Tacilities by the dulite

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A considerable decrease in park translator and creditly due to the loss period of vary shorty and distributed of first entry cars, 30 re-entry and sold left mople. The hundred sixty-one people neared a park curiage, and of last prev. Although a confideration of commentary to the vertills acred to the vertill shows an increase of 50 resent. The complete travel for the year utill shows an increase of 50 resent.

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There were no peoid visitors in the serie curing the south.

600 - Fratection

610 - Police Protection

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630 - Accidents

To automosile accidents were reperted during the weath. 'or the same period last year four automobile accidents were reported.

900 - Miscellaneous

Post Office - Receipts for the Post Office for the month of November are approximately the same as for the corresponding month of last year. The last of the seasonal temporary clerks was separated from the payroll on November 30.

Church Services - Protestant services were held in the chapel at Mammoth on November 27 by Rev. Lewis D. Smith of Livingston, and Lutheran services were held by Rev. Webster. H. Clement on October 28. The interior of the Mammoth chapel was repainted and cleaned as an ERA project.

Hospital and Medical - There were 120 office and 10 home calls reported for the month of November.

C.C.C. - Two of the four CCC camps we had during the past season were retained for the winter being located near the park headquarters.

Fine progress was made on all jobs. Job 442, Three Guaging Stations which were constructed at various points on the Gardiner River to obtain certain data in connection with this stream, was shown completed this month.

The Preparation of Material Job was worked by our two winter camps throughout the park until Nevember 15. This consisted of sawing wood for ranger stations and government mess houses at Canyon, West Thumb, Norris Junction, Tower Falls, Buffalo Ranch and Mammoth.

One hundred cords of wood were hauled to Mammoth from Old Faithful during the first two weeks of the month. Due to weather conditions this work was discontinued, although there still remains much wood to be hauled.

A large crew of boys were kept working in the new Mammoth auto camp and it is hoped that another section of this job will be completed by spring.

The Tower Falls side camp from NP-7 has been getting out wood and constructing a fire tool cache building which is nearly 50 per cent complete. It is anticipated to move this camp to the Buffalo Ranch in December for working on the water system there.

Another of the employee cottages near the power house was completed in November and is ready for occupancy.

Work was commenced on the 16-stall storage garage at Mammoth and good progress is being made.

The supervisory and facilitating personnel for our two camps are in keeping with the approved quota; or 9 employees for each camp.

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Post Office - Leasipts for the cat Office or the correspondin month of lest ber are approximately the seasonal temporary clerks we superated from the payroll on hove bor 30.

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The supervisory and feeilitating personnel for our two camps are in keeping with the approved quote; or 9 employees for each camp.

The regular monthly meeting of the Federal Employees: Union was held in the centeen on November 7. Following the regular meeting, a number of kodachrome slides were shown by Superintendent Rogers as a part of the entertainment feature.

On the evening of November 22 the members of the Manmoth community were entertained with an amateur night program featuring several specialties, a play and a dance, all talent being Turnished by members of the community. The event proved most successful.

J. W. Emmert, Acting Superintendent. The require monthly meeting of the Tederal Employees alon was held to the centres on Hovember 7. Following the regular meeting, a number of kodestrame alides were shown by Suceral adent copers as a part of the entertainment feature.

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NATIONAL PARK SERVICE

TRAVEL REPORT

	This Month	This Travel Year	This Month Last	Last Travel Year	Increase for Travel Year	
		To Date	Year	To Date	Number	Percent
RIVATE TRANSPORTATION:	77	1780	116	975	805	82.5
ars first entry,	. 33	•				-
ars reentry,	. 38	905	75	795	110	13.8
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ersons entering via motor ehicles,	191	7603	561	5066	2537	50.0
ersons entering via other rivate transportation,						
	2.03	7/07	E43	5066	257	50.0
Total persons entering via private transportation,		7603	501		() { (, ,) }	<i></i>
THER TRANSPORTATION:						
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ersons entering otherwise, .	•			ant receipt within the site of the collection of the site of the s	ander under bestern film enterferance even, estematement	Remoteration services calded and the development of the services and the s
Total other transportation,	•	0/07	9-77	F0/6	0027	50.0
RAND TOTAL ALL VISITORS,	191	7603	501	5000	4001	90.0
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NATIONAL PARK SERVICE

TRAVEL REPORT

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Total mo'or vehicles,	5,10		e 6	. 9		2
rsons entering via motor	1.1.	£03)	e ę		· .	10.75
rsons entering via other ivate transportation,	anna badrinor-inna-univada gaya	, and on bosometricon. More relative, dubbs discuss of all and administrative	n data uninchen districti Bereichen und bestellt districtionen.	kajdalijajajaj lyvus selles i palaka seru-finalasis um 18-18-18-18	a ober - enganglande	Con-
Potal persons entering via	# · *	127	r . 	The state of the s), V-
HER TRANSPOR ATION:						
rsons entering via stages,						
rsons entering via trains.						
rsons entering othermise	Br. skillskejlijkeur skillene.	pr ser i vi v villagelighterellighet villagelighet villagelighet villagelighterellighet villagelighet village	acidis in garantinais-apprintante atain vents. En	w - DEBBOOKS SOLIO - DESTRUCTO -	mes - Color store so r	- and denoted white
Total other iransportation,		¥ 5 m	*	and the same of the same of the same of	- per	7 7 *
AND TOTAL AL VISITORS,					-	
ar nganasannaka neman Naraka ni jami dagan kangga makatar nya, mankar hata ndaman man-da Amid dibi dibi ndama da mana awa	ngggg Maunifylgind gandalfhallen over gande for in fort	ор, компедии домографиятельного домография домография.	This		Incr	ease Percent
tomobiles in public camps durin			and arms along man arms and arms are along to		and 100 to 100 to 100 to 100 to	

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

	This	Last
	Year	Year
Park revenue on hand beginning of month,	640	446
eceived	\$ 89.69	\$657.16
Total,	89.69	657.16
emitted,	89•69	657.16
n hand close of month,		
ark revenues received this year to date,	. \$292	.298.72
ark revenues received last year to date,	. 342	,221.61
Decrease Increase,	49	.922.89
Per cent of increase,		14.6

NATIONAL PARK SERVICE

REPORT OF FARK REVENUES

	rellow tone National Park for the Month o
This Last Year Year	
	ark revenue on hand beginning of month,
3-450.	?ocoived
31.16) (3.0	Total,
SE-129 C + W	emitted
	n hand close of month,
,	17 cmg () 11 co conquestrat de distributa destinations
51+875 ₄ cme	ark revenues received this year to date,
Livisi, ex	ark revenues received last year to date,
68.30.3,	Toorstee
And the same same stage where your security out to consider the same state and the same story, and same	Per cent of increase,

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of November, 1938

		This	Month		Th	is Mo	nth Last Year
	Reg.	91	Reg.	pointed 74	Reg.	90	Non-Appointed
mber of employees beginning of month	Reg.	19	Reg.	58	Reg.	18	
mber of additions	CCC	0	PW	8	CCC	1	1
	Reg.	111	Reg.	30		109	
mber of Separations	CCC Reg.	90	PW Reg.	36 46	Reg.	89	and the second s
mber of employees close of month	CCC	18	PW	0	CCC	19	33
mber of promotions during month	Reg.	2	miner mentional devices access many			0	
	Reg.	185 -	29/32	4-2/8	Reg.	274 - 2	
ISIGET'S CHOMIL OF CHILICAL FEGAC COVENI			15/16		Reg.		7 8
gregate amount of leave without pay		30			Reg.	15	

Includes 30 days' sick leave taken in October.

10-159 ay 1931)

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSCUNEL

Y. J. O. .. . nc National Park for the Mon h of

This Month Last Year This Horac Appointed Non-Amointed Appointed Non-Appointed * 7 1 Of maser of employees beginning or anth * 4. 7. A No 12 I 000 in er of additions othe pin C12 " 001 Total . . A short some -----* 40 I imper of separations. 4 7/1 W. A . 1 11 mber of employees stose of content 1 70 1 * 3 11 03.5 regare amount of annual loav mire gregate amount of wick leave taken . C. -A -A -P OI (11) 0 4 11 geregate mount of leave without pay htm.

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY	GENERATED,	SOLD,	USED,	ETC.

Yellowstone Nationa	l Park fo	r the Mo	nth of	lovember,	1938		
This	This Travel Year	l Month Tras		vel Month Trav			ease for el Year
111011011		Year	To Date	Number	Percent		
arrent generated,	556,500	92,800	480,200	76,300	15.8		
old to park operators, 948	59,461	4,118	58,528	933	1.6		
Sold irnished to other Governmental agencies,	4,512			4.512	ani		
sed by National Park Service, lost in transit, etc., 112,438	492,527	88,682	421,672	70,855	16.8		
			480,200		15.8		
nount receivable from the sale of ele	ctricity	in Mamn	(1938	9 " " "			

Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

		ETC_		RATED. SO	ITY GENE	ELECTRIC
<u> </u>	tifing r	10. dt	tne won	Park for	Mation a l	Vollo, rt 18
Profes selecting security according to Annie of Selecting	order toward times		is i money	After delite testing trade states and pro-	11 · datas status status	
		Tart Travel				
		Year	Last	Year	Month	
USE T	redmin	To Date	Year	To Date	Safe and months of films arrange of	and traples some states the configuration of the states of
11×85	100 - 6 1	₹., <u></u> , (1511	200,50	5,550	000 4151	rrent generaled.
* * *	E Carlo	050,37	F F	I A L	ELLE	ld to pa k operators,
						ld to others,
-nyk	2. e .;			Silvel	ifo	rntshed ther Governmental agencies,
* 35.	Carried 8 C. S.	TALL		Lucia Coty	112,133	ed by National Park Service. lost in transit, etc.,
8.72	0-1-5	OKE RIE)05,5	576,500	'Y CII	Total nursen' generated.

cunt recoverble from the sale of electricity, 4 . The sale of electricity, 4 . The sale of electricity 4 .

Indicated by K. W. H.

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

	This Month	This Month Last Year	Decrease Treresse	Percent De
LOCAL BUSINESS Mammoth				
Miles of circuit maintained, excluded	462	604	142	23.5
No. of telephones connected, No. of measured service calls,	270	275	5	1.8
Receipts from measured service calls	where the transfer of the state			namen gilla kaut ann 1998 Folk stoll samt ann an stoll an e
TOTAL RECEIPTS				
LONG DISTANCE BUSINESS	es union força en su unual inicial.	·		
No. Outbound calls,	Carlo Car		engel Gillion salatin garanninka yangi danah danah danah liberila 27-salat Gillion	- Marie Alaine Annie - Annie
TOTAL LONG DISTANCE CALLS				
Peak load in calls per day,				
TELEGRAPH BUSINESS	t Milly Mills and a second state of the second			
Messages via Western Union,				
Receipts from telegraph business, No. of money transfer messages,				*

N JIONAL PARK SERVICE

OF PLEPHONE ALD IDLE SAPE BUSINESS	
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	3+C 3
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'L'ANCE CALLS	
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) (November 30, 1939	NAT NAT Minor Ro	NATIONAL PARK SERVICE Monthly Report of Minor Roads and Trails Projects	ERVICE of s Projects	Tota	Yellowstone Total Mileage	Mational Park (Area) for Area:	
As of	(Date)				T	Minor Roads. Trails		Miles Miles
Proj.	Description of Project	Type of Work	Mile- age of % Com- Proj. plete	Appropria- tion Symbol	Amount Allotted	Amount	Remarks	
584	Trail Construction, Canyon	Treil & Platforms	N N		\$7,000	\$1,251.08	\$1,251.08 Closed down for winter	nter
)								

November 4, 1938

CIRCULAR NO. 21:

Effective immediately the old Soda Butte ranger district will henceforth be designated the Lamar district and the ranger station being completed at the Buffalo Ranch, which will be district headquarters, will be known as the Lamar ranger station.

The name Soda Butte will henceforth apply only to the butte itself located on the bank of Soda Butte Creek.



November 4, 1938

CIRCULAR NO. 22:

Effective on November 3, 1938, David deLancey Condon will be assigned as district ranger in charge of the Lake district with headquarters at Mammoth during the winter months.

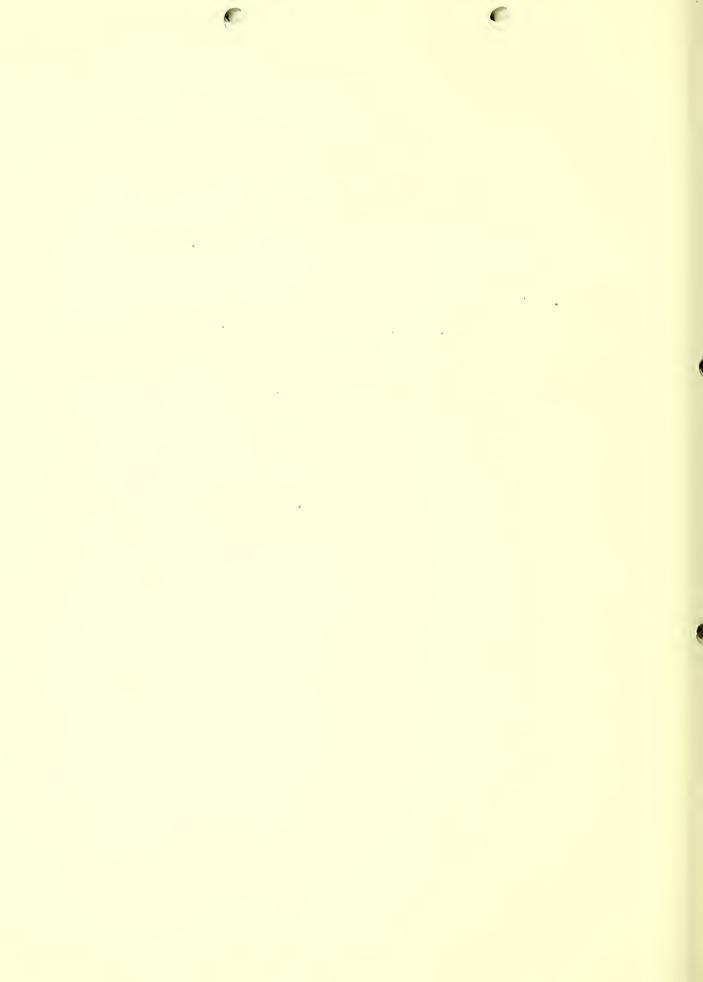
Effective on November 3, 1938, Earl M. Semingsen will be assigned as acting district ranger of the Lamar district with headquarters at Lake until such time as the Lamar ranger station is ready for occupancy.



November 7, 1938

CIRCULAR NO. 23:

Effective November 5, 1938, Park Ranger Frank F. Kowski was transferred from the Lake district to the Bechler River district, with quarters at Bechler River ranger station.



November 30, 1938

CIRCULAR NO. 24:

Effective December 1, 1938, Ranger V. Verde Watson will be transferred from Gallatin ranger station to the Mammoth district with quarters in the apartment formerly occupied by Sanford Mill.

Joseph Joffe Acting Superintendent



PRESS MEMORANDUM Release on Receipt

1938 - 104

Yellowstone Park, Wyoming, November 1: Travel to Yellowstone National Park should be discouraged for the remainder of the winter, except for those who desire to come to the north entrance and view the wildlife show along the north line between Gardiner and Cooke, Superintendent Edmund B. Rogers announced today.

The storm of the past few days, which brought rain to the low country and snow to the higher elevations, has been responsible for making some of the main highways impassable. The Dunraven Pass road from Canyon to Tower Falls has been definitely closed for the past two weeks, since the last storm, while the Continental Divide road between Old Faithful and West Thumb is now blocked by snow. Travel is difficult and dangerous over the east entrance road and all cars coming to the park should be provided with chains. The Red Lodge-Cooke road to the northeast entrance has been impassable for several weeks and while the other entrance roads are still passable any day may see them blocked by snow.

With the closing yesterday of the general store at Old Faithful, which provided meals and lodgings for late visitors, there are no longer any accommodations available in the park. The general store and gasoline filling station at Mammoth remain open throughout the winter to take care of local residents and those visitors coming to the park to see the Wildlife show along the north line but no meals or lodgings are available.

With the closing of fishing in Lewis, Heart and Shoshone Lakes and the Yellowstone River between the mouth of the Lamar and Gardiner October 31 all park waters are now closed and fishing has been discontinued until early spring. ----00000----



Office of the Superintendent

November 8, 1938

MEMORANDUM FOR ALL MANIOTH RESIDENTS:

With the winter season comes longer nights and more time to enjoy your radio if you are able to hear the program above the noise made by vacuum cleaners, food mixers, electric razors, lamps burning out, bad appliance cords and numerous other interfering appliances.

Last fall the electrical department made a house-to-house inspection, repairing all defective switches, wiring and electric equipment owned by the government. All employees were requested to have their radio interfering appliances repaired and filtered. Approximately ninety-five per cent of the people cooperated fully with the men doing this filtering work but the remaining five per cent did not seem to care whether or not their appliances disturbed their neighbors, although they were among the first to complain if a program they wanted to hear was noisy due to a neighbor's vacuum cleaner, sewing machine or some other appliance.

All electric razor users are requested to secure a plug-in-filter from the commissary as soon as possible (cost 75¢) and plug it in their convenience outlet ahead of the electric razor. These filters will not remove all the interference but will reduce it from 65% to 95%, which in most cases, will allow you, as well as your neighbor, to operate the radio satisfactorily.

We plan to have another house-to-house inspection in the near future and we would appreciate one hundred per cent cooperation from everyone.

The cost for installing filters on appliances will be approximately \$1.00 for each appliance. This includes filter and all labor.

LET'S ALL COOPERATE TO REDUCE RADIO INTERFERENCE TO THE MINIMUNICAL



U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

ION_	YELLO	STON	E PA	RK,	wyo.				MO	NTH	NOV	SIVACIO:	R, 1938	•
	TEMPERAT	URE, °F.			IVE HUI Percentag		PRECIP	ITATION		WIND			VEATHER	
Maximum	Minimum	Mean	Normal mean	A. M.*	Local noon	P. M.*	Total (inches)	Snowfall (inches), p. m. to p. m.* (unmelted)	Prevailing direction	Highest velocity	Direction	Percentage of possible sunshine	Character of day	A Biver stage (feet)
40 53 53 53 53 53 53 53 53 53 53	32 27 25 12 12 12 13 17 23 16 18 17 18 19 76 61 18	36 50 50 26 17 14 21 30 32 20 14 10 22 25 26 27 27 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	34 34 34 33 33 33 33 33 33 33	86 75 72 86 80 85 80 80 80 80 80 80 80 80 80 80 80 80 80	79 71 76 57 60 76 60 76 60 76 60 76 60 76 60 76 60 76 60 76 60 76 60 76 76 76 76 76 76 76 76 76 76 76 76 76	66 70 86 76 76 76 76 76 76 76 76 76 76 76 76 76	05 1 2 2 1 3 2 6 8 3 C T T T T T T T T T T T T T T T T T T	T T 0.2 2.0 0 0 T T T T 1.2 T 0.2 T 0.4 0.4 0.4 0.0 0 0 0 0 0 0 0 0 0 0 0 0	S NS N W W S S S S S S S S S S S S S S S	13 15 25 24 12 12 12 12 12 12 12 12 12 12 12 12 12		11 0 21 47 25 19 10 21 17 0 9 41 8 6 0 6 0 6 0 6 10 10 10 10 10 10 10 10 10 10 10 10 10	cloudy cloudy Pt.Cldy Cloudy Cloudy Pt.Cldy Cloudy Pt.Cldy	7890123456789012345 11123456789012345
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30.	21	28	24	65	47 65	43 60 69	0 T	0 0	S	25		27 0	Cloudy Cloudy	29
30.0 38.	21 0 14.3 4 19.9	28 22. 29.	24 2~~ 2~~	65 76 74	65 62	60 69 65	T 0.63 0.74	8.5 10.4	SW	25 26	SW	29	Cloudy	29 3 0
30.0 38.	21	28 22. 29.	24 2~~ 2~~	65 76 74	65 62	60 69 65	7 0.63 0.74 T indicates a	8.5 10.4 trace of preci	SW	25 26	SW	29	Cloudy	29
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30.0 38.4 5::	21 0 14.3 1 19.9 10 a. m. and	28 29. dp. m	24 2~~~ 105 RIC PR	65 76 74 th	65 62 meridian	69 65 time.	T 0.63 0.74 T indicates a	8.5 10.4 trace of preci	SW S S S S S S S S S S S S S S S S S S	25 26 asum	S SW NW rrise to sur	29 39 nset.	bTotal. °Mo	29 30 nthly.
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30.0 38.4 y mean es this edaily	BAR BAR 31.0 29.5 41 -10 month since departure departure suys	28 22. 29. d p. m., OMETI O_, da TEMP , da, da e1	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	65 76 74 ESSURI 26 23 RE 28 28	65 62 meridian	60 69 65 time.	T 0.63 0.74 T indicates a SUMMA	Prevailing of Highest wir 35	SW S S S pitation. direction and velocities from days cle ble precipits CELI	25 26 Sun Sun 4 Sun ANEOU	wind with the second with the	ND average since	hourly velocity hourly velocity -8, in -1 -1 NA—DATES (lunar -11 nse	29 30 nthly. 904 19,
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