

http://archive.org/details/superintendentso3711unse

10-23 (May 1929) 6-7410

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

FILE NO.

MONTHLY REPORT

November, 1937

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge. All Files should be returned promptly to the File Room: Officials and employees will be held responsible for failure to observe these rules, which are nccessary to protect the integrity of the official records.

ARNO B. CAMMERER, Director. 6---7410

U. S. GOVERNMENT PRINTING OFFICE



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

ICE OF THE SUPERINTENDENT

December 3, 1937

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

Dear Mr. Director:

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

000 - General

The weather continued pleasant throughout most of the month with the extremely nice weather of October running along until the first light snowstorm of November 6. On the fifteenth of the month the Hed Lodge-Cooke road definitely closed for the winter and the east, south and Callatin roads became slippery and dangerous. The snew and cold weather of the sixteenth and seventeenth closed the east, south and Dunraven Pass roads on the seventeenth and information to this effect was sent out through the newspapers in order to discourage further travel. On the twentieth official advice was sent out through the Associated Press that all roads in the park were closed to travel due to snow conditions, excepting the sections from Cardiner to Mammoth. This was some two weeks earlier than in 1936 when it was possible to negotiate the entire loop road as late as December 2. On the twenty-ninth of the month it was necessary to open the roads from Mammoth to West Yellowstone with the snowplow in order to permit the moving to winter quarters of two families of rangers.

All operations in the interior of the park ceased on the eighteenth when Mr. Mamilton discontinued the repair work on his Old Faithful store and moved his crews out through Gardiner.

The contractor on the Isa Lake-West Thumb project abandoned his camp at De Lacy Creek on November 5. The Bureau of Public Roads crews, with the exception of the crew which will be retained to look after the Mammoth beautification job, departed on the eighth.

Members of the Manmoth Community and the many friends of the Robinson family were greatly shocked and grieved at the death on November 15 of Robert Leroy "Pud" Robinson, 13, son of Master Mechanic and Mrs. R. R. Robinson, Jr. Pud, after having run an errand to the Post Office for mail,

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

THEORITHIRSTUP ART TO PO

re dimens. Later Durble, . .

increally and the

P ... w Th

about five PM returned to his home and proceeded upstairs. with his mother. her father, Mr. Leroy Hill, former Disbursing Officer of the park, who has been confined to bed on account of illness for a number of weeks, and a nurse downstairs, Pud evidently decided to play with some cuns which were in a closet upstairs. About 5:15 PM Mrs. Robinson heard a thump as if something heavy had fallen on the floor and upon runnin upstairs found her son shot through the head with a .22 calibre rifle. Death was almost instantaneous and so far as could be determined the cause was purely accidental. Funeral services were held in the Episcopal church in Livingston, Bishop H. H. H. For officiating and burial was made at the Mountain View competery in Livingston. Six National Park Service men in uniform, Joe Joffe, Jack Emmert, William Wright, Al Elliott, Lloyd Seasholtz, and Hugh Ebert, acted as pall bearers with five Boy Scout friends of Fud's serving as honorary pall besrers. Pud was born in Livingston, Montana on March 25, 1924 and spent his entire life with his parents at their home at Mammoth. He attended the school at Manmoth, spent one year in junior high school in Livingston end was attending high school in Gardiner at the time of his death. Many beautiful floral offerings were received from friends and acquaintences while the casket was bedecked with a beautiful blanket of park evergreens made by the Mamnoth ladies supervised by Mrs. T. Paul Wilcox, wife of the Park Commissioner, who for many years was engaged in the floral business in Cheyenne, Wyoming.

Practically all operations in the park during the month were confined to Marmoth due to the threatening storms and the closing of the roads. With the abandoning of the De Lacy Creek Camp by the contractor on the Isa Lake-West Thumb project all contractors had moved out but on the minth of the month Peter Kiewit and Sons Company of Omaha, Nebraska, the successful bidder on the Marmoth beautification project, started to work. Taking advantage of the good weather and with a rather large crew considerable progress was made by the end of the month on this job.

The Yellowstone Park Company continued its building program at Marmoth throughout the month and has made satisfactory progress in the erection of its new cabins and recreation hall. Some interior work on the Hamilton Store at Old Faithful continued until the eighteenth. The finishing details on the new Marmoth Post Office were being taken care of end the job should be ready for acceptance by the middle of December although it is expected that the Post Office will not move in to its new quarters until the first of the year due to the handling of the heavy Christmas mail.

The critical condition of the park finances necessitated the Park Service operating with a minimum of personnel practically all of whom are members of the permanent organization. No operations were carried on in the interior of the park except regular duties of the permanent ranger force. There were four per diem employees separated during the month and only three per diem employees remained on duty at the end of the month.

and the set of a man share and the set of th a sector of the sector is a and a second and all an an and the second s the solution of the state of th a state to a second of the second of the second and the second and the second sec and the second s autor and the state of a state of the state guade in a star for a contract of the star star star and the star The state of the s prost in the state of the state in the state of the second of the second of the second sec alle a service of the loss of the service of the se Vi Di segli strene ne ta di Little de Little de Little de State de State de State the local and an and the go we and a product of . all some so

* construction for not construct on the construction of construction of construction of construction of the construction

020 - General Weather Conditions

A summary of the general weather conditions as recorded by the Official U. S. Weather Eureau Station at Manmoth will be found at the back of this report.

021 - In the Park

Weather conditions throughout the entire park have been comparable to those recorded at Maxmoth although in the interior of the park lower temperatures have prevailed and storm periods have been more severe.

At the end of the month all of the roads through the perk were closed by snow except the road from Marmoth to the Buffalo Ranch. The road from West Thumb to the south entrance was closed on the fifteenth and the road from Lake Junction to the east entrance, over Sylvan Pass, was closed on the seventeenth. The roads to Lake and Old Faithful and to West Yellowstone were not blocked by snow until the twenty-sixth.

Snowfall has been heaviest at Snake River station and in the Bechler River region, there being 18 to 24 inches of snow on the ground at these points at the end of the month. In many sections of the park the snow which fell before the twenty-third was crusted sufficiently to permit walking on it without using skis or snowshoes. This condition presents a particularly adverse situation for foreging game animals.

022 - Approaches to the Park

The approach to the south entrance was closed on November 16 and the approach to the northeast entrance was closed by snow prior to the first of the month. The approach to the east entrance was not blocked by snow until the twenty-ninth. Successful efforts have been made to keep the road from Bozeman to West Yellowstone, Montana open to motor vehicle travel and this section of highway has presented no difficulty to travelers this month. The road from the west entrance to Ashton, Idaho has also been kept open to traffic. The road from the north entrance to Livingston, Montana has been open to travel during the entire month and while it was icey and dangerous at times there was no difficulty encountered from snow conditions.

023 - In Nearby States

Weather conditions throughout the adjacent states have been reported to be about the same as these reported in the park. Some difficulty has been reported in keeping roads over high mountain passes open to travel but in most areas storm conditions have presented very little difficulty, insofar as travelling conditions are concerned.

COMPANY CONTRACTOR OF MORE CONTRACTOR

and to F" - It's

version for the set of the s

and it office a - -

100 - Administration

110 - Status of Work

Superintendent Rogers spent practically the entire month in the park making only one trip outside to Livingston. Most of the work was kept current and due to the slackening of activities because of the crippled finances it was possible for a number of the employees to take some of their accrued annual leave. Park Naturalist Bauer was absent throughout the entire month due to illness.

Clerks Alice and Catharine Harris returned to duty from their leave period the first of November as did also Agent-Cashier Fred Bussey. Catharine Harris took additional leave from the 8th through the 18th. Agent-Cashier Bussey left on the 25d and was away from the park through the end of the month.

Chief Clerk Keith Neilson was absent the week of November 8 to 15, inclusive.

Ladd Shorey entered on duty on November 16 under his appointment as Clerk (Timekseper) vice Richard J. Smith who was transferred to General Grant National Park and who left the Yellowstone on October 20.

Clerk Jerry Tonini returned from leave without pay on the 16th and departed on the 21st for the Boulder Dam Recreational area to which location he had been transferred.

Assistant Superintendent Emmert departed on leave on the 21st to be gone until early December.

Telephone Operators Witkauckas and Allan were absent a week cach due to illness.

The Thirteenth Civil Service District announced an examination on November 12 for the positions of classified laborer and fireman-laborer for filling newly established positions in connection with the Mammoth Post Office, the closing date for the filing of applications for which was November 27.

A register resulting from the examination held on October 16 for substitute postal clerk was received by the Local Board on November 15.

120 - Inspections by:

121 - Superintendent

Superintendent Rogers spent most of the month at headquarters, making trips into the interior and outside the park as follows:

November 2 - With Messrs. Oberhansley, Enmert, and Jack Haynes made trip horseback from Buffalo Ranch over Specimen Ridge; returned Manmoth for night.

reiterteiri Ba - C I

110 . the of The

A state and the interval of a second to the second to t

The Leek Voith will a spect of the work of the bullet

I''' for a character a conternant a second s

Clerk ALL Lifth "turned of a line distant but of the distant letered on the dist for the store is a single of the section a mult bed reared.

store until derly weather.

.a.chone Orerators 'It's will a stand or of the stand of the stand of the standard of the stan

Le Littenth Civil er le in riet a maneel i surf die en New ber 12 for the prefect of files and and dread the filer." for filling neary established and the interaction is the is ele Post of ice, the closing less of the filt of a similar ice and core of the second second by a similar of a similar ice and the second second second second second second second core of the second seco

100 - Turneditons by:

Lal - Dan rister ont

The second design of a to the second the

November 3 - Attended meeting at Gardiner with Messrs. Emmert and Joffe in connection with the formation of a Gardiner Commercial Club.

November 4 - Inspected Isa Lake-West Thumb project with Resident Landscape Architect Hill; returned Mammoth for night.

November 5 - To Rescue Creek and return with Jack Haynes to determine exact location of the finding of Truman Everts who was lost in the park in 1870 for 37 days.

November 7 - To Lake and return.

November 11 - To Buffalo Ranch and return with Messrs. Amert, LaNoue and Sanford Hill.

November 18 - To Livingston to confer with the park medical officer, Dr. Windsor, and to attend funeral of Pud Robinson.

122 - Special Field Representatives of the National Park Service

Adolph Murie, Wildlife Technician, CCC, Omaha, returned to the park November 2, remaining until the 26th when he departed via the north gate for the Jackson Hole.

Regional Landscape Architect George Nason, CCC, Omaha, arrived in the park via the north gate on November 12 with Regional Geologist Carroll Wegemann, departing via the east gate on the 13th.

Resident Landscape Architect Sanford Hill, CCC, Cmaha, who has been in the park since May 6, departed via the north gate on November 21 for Omaha.

Associate Architect W. H. Gebhardt, who has been in the park since April 29, 1936 as inspector on the Utility Building, departed via the north gate on November 22 for Omaha. Mr. Gebhardt was also inspector on the apartment house building.

124 - Other Interior Department Officers

Barl Bailey, U. S. Geological Service, Boise, Idaho, who arrived in the park on October 7 to aid in the construction of three water gages, departed via the west gate on November 29.

125 - Other Governmental Officers

John D. Organ, Special Agent, Bureau of Investigation, Department of the Interior. Washington, D. C., arrived via the north gate November 5.

Martin A. Cannon, Special Agent, Bureau of Investigation, Department of the Interior, Washington, D. C., arrived via the north sate November 9.

140 - Labor Situation

With the closing down of all activities in the interior of the park a

and be a second from a second

Work and the state of a Press which

overber 1 - 10 Livin - 0 - 11 Livin - 11 Liv

12 - special fold or an it of the state of the second second

original anter roll roll and a part of the second roll of the second r

 $\frac{1}{2} \left(\frac{1}{2} + \frac{1$

The set of the set of

1.01 LLT CILL TO COL - 1

ho fate ior, and all and a should be a star at a star a second be a should be should be a should be a should be a should be should be a sh

rtia . "Litera, moi t c.if, mais c. Ter i den, ter

140 - L bar Hitust

i.h th close down of al ctilite in a sector re-

number of men were returned to the reemployment lists. James Crick, the contractor on the Isa Lake-West Thumb project had been operating with a crew of about 200. Some men were retained on the rolls by the contractor on the post office project and approximately 100 men were employed in connection with the Yellowstone Park Company building project at Mammoth.

Peter Kiewit and Sons Co. offered employment to a number of men when work was started on the Mammoth beautification project on the 5th.

Little work was offered by the National Park Service as its forces were operating with practically all permanent employees.

150 - Equipment and Supplies

There were one carload each of gasoline and horses and harness, and three carloads of coal received in addition to other shipments of solvent, office supplies, lubricating oil, sheet iron, window glass, nails and linseed oil weighing 21,673 lbs.

160 - Status of Alienated Lands

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

170 - Plans, Maps and Surveys

All work under this heading was in connection with the development of the proposed Lammoth campground. .lignment of all roads in the area was staked and profiled and cross sections taken and plotted. The layout in the field was inspected by Landscape Architect Hill prior to leaving for the Regional Office and numerous changes requested by him in order to better fit the development to existing conditions. E.C.W. Engineer Wohlbrandt reported from the Regional Office on the last day of the month and will assist in the supervision of the campground work.

180 - Circulars, Placards, Publicity Bulletins, Etc.

Circulars Nos. 33, 34 and 35 were issued during the month and copies are attached.

No Nature Notes were released during the month. Stories regarding the death of Pud Robinson and the closing of the park roads were released through the Livingston Enterprise and the Associated Press.

200 - Maintenance, Improvements and New Construction

210 - Road Maintenance

Practically no road maintenance was carried on during the month. A few sections of snow fence were installed in the Mammoth area several minor alides in the Gardiner River canyon were removed, nully of the reaction of a decomposition. Jurie of a contractor of the second of the s

Vet r iewit and bore Co. off. red a ploy of to a non-or of the long of a star and red on the structure is the ancient and the file.

a of a star a straight of the star is a star it.

170 - quiprent and - Talice

Thuse are one carled each for a fior a fior a fior a fior, and the structure of a second structure of a second

150 - Status of Alamatic - 031

inere we no charge in the statu of 1. close 1.

170 - Flans, "aps nd e rv ys

13. - Mrculirs, dioilon abr con ,auluork - 081

Otroulars on. 33, 24 and 35 and i mark during the services and contes

To ture otes ere related during the rough. States of ring the during the set of ring the during the set of the restrict determined the set of the set of the set.

200 - "itates, a in the store i, esnewith " - 000

10 - Road interance

220 - Improvements

Shops - The usual maintenance of equipment in operation was carried forward. There were nine trucks overhauled during the month.

Electrical Department - In addition to the usual maintenance and repair work during the month, approximately 1100 feet of #6 stranded, 2500 volt Parkway cable was put into service on November 30th in back of the new hotel to replace the old overhead circuit, and several single-phase transformers were connected. All park telephone circuits with the exceptions of lines 9, 10 and 2 are working as ground return circuits for the winter season. All four short-wave patrol car radios were beturned to the factory for improvements at the factory's expense and request.

Carpenter Shop - In addition to the usual repairs and small jobs the work was finished in washing and putting up storm windows.

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

Paint Shop - Jobs repairing broken storm sash, laying linoleum, painting and patching tile were carried on during the month.

230 - New Construction

No force account construction projects were active during the month.

Contract Construction

New Post Office Building - Grading and landscaping of the area around the building was completed and work of interior finishing was continued. Completion of the entire contract is estimated by the close of the next month.

Yellowstone Park Company Improvements - Work for the most of the month was confined to interior finish on both the Recreation building and the cabins already framed.

Major Road Construction - All road work in the interior of the park was closed down early in the month and the only work to be considered active has been the construction of the Mammoth Esplanade and connecting road. Accomplishments consist of the salvage of sod and top soil on the area covered by the Esplanade, obliteration of a portion of the roads to be abandoned, and installation of about 50 per cent of the storm sewer. Considerable yardage has also been moved on the connecting road.

300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

With the closing of the C. A. Hamilton Store at Old Faithful on November 18 the last of the businesses in the interior of the park ceased

squ Arid 1 - 0.6

. A contraction of the second se

in the second constant and a second constant of the second of the second

.30 - Construction

o orce account cutitutin and a statut of the state

Contrat von new on

. for hold Construction - dl model on the boot of the solution of the solution

in. and al solars, word the costility - (38

.1.) - Public ervice Sontractors

ith the slock of set . . Farilton three is the price on

operations. Mr. Hamilton left via the north gate on the 18th.

The general store at Mammoth remained open throughout the month to take care of the few late visitors and the Mammoth residents and employees.

Mr. J. E. Haynes, the authorized park photographer, departed from the park via the north gate on the 6th.

Mr. W. M. Nichols, President, Yellowstone Park Company, paid a one day's visit to the park on the 26th, having just returned from ashington.

The Yellowstone Park Company closed its Gardiner garage on the 30th, activities to be resumed again in the spring.

On November 13 the price of gasoline was reduced 1¹/₂ cents per gallon to conform with a reduction in price put into effect in the State of Montana. This made the price of regular gasoline at Mammoth and Old Faithful 24¹/₂ cents per gallon and for ethyl gasoline 26¹/₂ cents per gallon, with a price of 25¹/₂ cents per gallon for regular and 27¹/₂ cents per gallon for ethyl at all other points in the park. On November 24 a second decrease of the month in the price of gasoline became effective with a 1/2 cent reduction, making the price at Mammoth and Old Faithful 24 cents for regular and 26 cents for ethyl and at other points in the park 25 cents for regular and 27 cents for ethyl.

400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

The work of the ranger department during this month has consisted largely of preparing patrol cabins for winter use, patrolling the park boundaries where adjacent areas outside of the park are open to hunting, forest insect surveys, and forest insect control work. Some time has been devoted to trail surveys, brush disposal on cutting areas and right-of-way clearing, preparation of plans for winter studies of game and game range conditions, checking traffic at entrance stations, and various other duties.

420 - Museum Service

Several lectures were given during the month to the Mammoth school children. The work of the naturalist department consisted of several field trips, making out of seasonal reports of ranger-naturalist for the 1937 season, taking care of sales publication matters, filling requests for geological specimens and securing pictures.

460 - Birds

There have been no conditions observed which have affected bird life in the park in other than a normal number. Migratory waterfowl have been observed in large numbers on all of the open lakes and streams in the park. On several occasions as many as 100 trumpeter and whistling swan have been observed and counted on Yellowstone Lake. at a state of the Mail will be a state of the

real that is a state of the second state of th

the state state and state and a state of the state of the

all off the state of the state

0 ov her 15 here to the the second to the second of t

er in d. Prote The mer erel - ("

10 - AL S. MARTAR AL CILC - VIC

estru encel - 1-1

spril - rep

470 - Animals

All game animals observed have been reported to be in good condition and with plenty of forage available at the present time. In most of the winter range area it has been observed that elk, deer and antelope have not yet migrated down to the lower elevations except in limited numbers. Weather conditions have not been particularly severe although in many sections there are five to eleven inches of heavily crusted snow which presents a decidedly adverse grazing condition.

The hunting season in all areas adjacent to the park line except along the north line from Cardiner to Cooke, Montana and in the Bechler River district closed on November 15. The following tabulation indicates the number of game animals reported taken to date by hunters:

Location		Bear	Deer	Elk	Moose	Bighoms
Cooke		3	2	9		
Gardiner		2	24	37		
Hellroaring				14		
Slough Creek		4	1	29		
Bechler River		1	6	46		
Gallatin		3	42	68		
Snake River					5	
East Entrance		25	75	129	7	6
Thorofare		6	6	17		
West Yellowstone				70		
	Total -	44	155	419	12	6

Elk hunting in the Bechler River district was exceptionally good this season from the hunters' standpoint. With about fourteen inches of heavily crusted snow over the entire area inside of the park, the elk forced to migrate to lower elevations in areas that were open to hunting in search of food. The open season in this district is from November 15 to December 1, inclusive.

480 - Phenomena

Mammoth Hot Springs area

<u>Angel Spring</u> - continued active from four major vents during the majority of the month, but sometime between the 19th and the 30th of the month vandals rolled a large chunk of travertine down the hill and completely sealed off the vent to the north from which the major flow had been issuing. When discovered on November 30, immediate steps were made to remove this piece of travertine and it is hoped that this vent will again become active.

Baby Spring - has a greater flow of water at the end of the month than in past months, with water flowing from a number of new vents.

470 - 13

All game submits obtained have been the read is a the second state a in the riscipy of for the vulled obtained of the second state of the second

The hunting ... so. in all to sufficent to it that the end to sions the north line from thing to to the sector states and the River distict closed on twist? . The foll off the states the the mulber of game animals reported with to the twist.

to a second to a s	90 0 0 m	Leder -	a de la serier e	Pr.	
		e°.		to.t	Ossire
		518	ale .	7	ieribia
					Afir or Liek
		÷-	Passa a	A	Monch Greek
		323	200	1- -	royt, refuse.
		E.	24	3	0111. * LLID
	.0				on k Liver
	7	CLI	54	0.5	ac "htra loa
		27	0	31	DT 107.0 1.
		07			eut Yellow tone
3	a and	- To Co	213	B. ATA-	a fate

The he the in the Beeler were an elot of one prote boot with as on from the bunters' at a point. In about to rear theorem to created anon over the outling restinged of the our, the out force bo right to to low rease thous in and will be readed by cool. The open a could be and this is formed of the outling is search of inclusive.

1637 36 - 03x

tempoli ilos miter

are interesting a continued off which is a new information for a property of the second structure of the second second structure of the second second second second structure of the second second second second second structure of the second s

in with apring - has a greater ils of where a the set of a wet the



Photo by William E. Kearns

Snow-mantled trees in Norris Geyser Basin as Winter begins his long reign. (Enlargement from miniature negative)



Blue Spring - has evidenced a slight increase over October.

<u>Cleopatra Spring</u> - is flowing a very sizable stream of water over a greater area of terrace than at any time in the past four years and is certainly the most magnificently colored terrace at Mammoth Hot Springs. The flow has spread far to the northwest from the major vent and a small amount of water is being discharged to the south from a small vent.

Cupid Spring - has been active the greater part of the month and is about average at the end of November.

Hymen Spring - is still inactive.

Jupiter Terrace - although far from average, has increased somewhat over October.

Main Spring - continues about as active as in October.

Minerva Spring - has increased somewhat over October with water flowing to the east over the face of the terrace and to the southeast into a large crack near the top. It is interesting to note on this terrace that the water cools quickly and a sheet of ice covers the face of the terrace.

Mound Spring - continues to be one of the outstanding springs on the terraces, both from the point of coloration by algae and in the amount of water being discharged.

Naiad and Opal Springs - continue about as usual.

Orange Spring Mound - has maintained the strong flow of water as reported at the end of October, with water spreading over areas to the west, south, and east.

Summit Basin Spring - has resumed activity on a very limited basis with a small trickle of water issuing from the old vent until the basin to the north is nearly two-thirds filled with water.

The spring to the east of Summit Basin toward Mound has maintained a strong flow throughout the month and here it is interesting to note that there has been a settling of quite an area with considerable caving in of the hole into which the water is draining.

New Spring - as reported in October, has shifted activity to the east of the terrace, separating it from Cupid Spring, and is now very actively discharging water from three large vents and many minor vents. This activity has completely covered the trail for an area of a hundred square feet and the adjacent areas continue to settle.

500 - Use of Park Facilities by the Public

510 - Increase of Decrease in Travel

Travel for this month shows a considerable decrease over that recorded

The sprin - a sold need sign of a structure of the

Neon-Mr. prig - i. 1. from sory d. 5. 20 1. 2010 com rester - c' terrouting in (1. i. i. 1. 2010) have to ded are fit there to a fit outry solor to control (1. 2010) is flower failed to the norther of the fit outry of the formation of the fit being discrete for a formation of the fit of the f

Guild nring - her on coir the r r r to the oth n. .

. vito. 11 1111 al - point . nemy.

Lin -prine - continues Duck in a live an in Cother,

is referred to the second of the second of the rest of the second of the

trraces, och fra 20 och of color side by 2 and in ho mant

finite for million - contant for bet

outbud at the end of version, with a ter and the ar which a set of south. I set a the end of version, with a ter and the and at the or a south.

The series to the set or quarts for on red and so drafts freed a trong its throughout the south of hare it is a constitute to so that there a been a still or fair an reactif constent. I the the hole into high the storie draining.

'w pring - as energed in Scholt, be stand with the to as of the terms of terms of the terms of terms

500 - The of Pert Stillis - To Public

510 - I Tre se of Decret is Travel

during November last year. This is accounted for by the fact that weather conditions were much more severe and that the roads through the park were closed by snow about two weeks earlier this year than last. The total travel to date, which includes the months of October and November, shows a decrease of 40.4 per cent in motor vehicles and 40.8 per cent in park visitors as compared with last year.

600 - Protection

610 - Police Protection

One arrest was made during the month when a CCC enrollee, Alvin Hedrick, was arrested for drunkeness and disorderly conduct. Hedrick was sentenced to serve thirty days in the Yellowstone Park jail.

Five other violations of regulations were reported but in each case there was insufficient evidence to trace the persons responsible for the violation. Two elk were killed inside of the park in the Gallatin district but the violation was not discovered until after the carcasses had been removed and all evidence destroyed. Two elk were killed inside of the park boundary in the Bechler River district. In one instance the hunters reported the kill, stating that they had cross the park line without seeing it and an investigation revealed that the killing was purely accidental. In the other instance the elk was killed well within the park boundary and the carcass removed and no information could be obtained as to the identity of the violators. The fifth case occurred near Crevice Ranger Station where a deer had been killed just inside of the north boundary. Evidence of the kill was not discovered until several days after the carcass had been removed and it was not possible to determine whether or not the animal had actually been shot inside of the park or had been wounded and chased to the point where it was finally killed and dressed.

630 - Accidents

Four automobile accidents were reported this month, none of which involved more than minor personal injuries, but one of which resulted in the loss of 2800 gallons of gasoline which burned and completely demolished a tank truck which was wrecked when it ran off of the road.

900 - Miscellaneous

Post Office - Receipts for the month of November showed an increase over the preceding month with a decrease over the corresponding month of last year.

The furniture for the new post office building at Yellowstone Park, Wyoming has been received and practically all stored ready for the occupancy of the new building.

Church Services - Church services were held on Monday evening of November 29 by Rev. Webster Clement of the Livingston Lutheran Church. Sunday School services were commenced the latter part of November to be continued all winter.

Un - rot etto

(10 - 1'ev o vilon

Hodric, the made write to the stand of the s

"ve other fol thone of " i b' i we have a final fol and the even this and thrull i tant of dance to a company of the for the vistin. It were killed is the the star will be with the mon a laure to an the Line Server is and an moit fift at twi The second to fill of it of the second the interior and the the when a lis Boll it is strict. It is not it have The shullt pail to estimate be well that the start as a start of the I to a fight an art. The set and believe a bratter wat us har th has write out an good and the fit before all out of the the off all the out of removed and the form in for the out is a control the ity of the violatore. "he fit o de son o the rest or the set adam has been till of int is in a worth born r. There of ... - or god bu arous, not control i forme Litter bereycouth for the Litte oved as it is a state of the state is in reaction is it is enturily ocen hot in the of the not in in a manual rich to

630 - - cilinia

rate of the solution report with must, note the fourte of the solution of the

900 - 1: onli Leon

h mmitte the n out of it builds i line e it; you to build release at a sticely it for d r. 4, for the company, of the stiller.

Nure 2rvies - Caron growic released in 2, religing I or ab 22 by 2v. Star Clark of at off a light of it and address ore erevariant of the start of the start continued of inter. Hospital and Medical - Our park physician reports 27 home and 117 office calls for the month of November.

<u>CCC</u> - During the month all CCC jobs progressed rapidly at both of the CCC camps, YNP #1 and YNP #7. We expect to complete and accomplish much worthwhile work during this enrollment period with the two CCC camps now located at Mammoth.

It is expected that Camp YNP #7 will be constructed by December 15 and that Company 544 will move into the new camp from their temporary quarters in the barracks building at that time. From 50 to 60 enrollees have been used from this company daily on construction of the new camp and the work agency has given every cooperation in rushing this camp to completion.

Roland G. Pray, Senior Foreman Landscape Architect, reported for duty at park headquarters on November 15. He was entered on duty effective at 10:15 a.m. on that date. Mr. Pray was transferred from Camp BR-9, Guernsey, Wyoming to Yellowstone Park and we find him to be an excellent man with outstanding qualifications and he will be a big asset to our organization.

During November five CCC enrollees from Camp YNP #7 received outside employment. One of these enrollees received a job as Plumber's Helper due to "project training" and experience he gained while in the CCC.

The regular monthly meeting of the Local Federal Employees' Union No. 465 was held in the recreation room of the Canteen building on November 1.

The regular winter activities in the Canteen building started on November 1. The program of activities during the winter will consist of volley ball, roller skating, badminton, shuffle board, pool, ping-pong and dancing. Laborer Robert Marquardt is looking after the care of the canteen and supervising the various activities.

As usual another highly successful campaign for the Red Cross was carried on during the month and the proceeds received amounted to \$191.50. This amount was turned over on November 22 to the Park County Chapter of the Red Cross in Livingston, Montana.

Thanksgiving Day saw a marriage ceremony performed in the Mammoth Chapel when Carl A. Biever of Livingston, Montana and Lillian Murray of Sheldon, Iowa were united in matrimony. Mr. Biever was employed for several years on the park engineering force and Miss Murray for a number of years has been in charge of one of the C. A. Hamilton Stores in the Park. Rev. Reubon Dutton of the Methodist Church in Livingston performed the ceremony. the second se

N'i wraat Cutty, ill a confiction confi

and the first of the second se

Lo romine tilly visit of the vi

N REFLUIDE LIANS BOUNDE CONTRACTOR CONTRACTOR CONTRACTOR
 N REFLUIDE CONTRACTOR CONTRACTOR
 N E CONTRACTOR
 N E CONTRACTOR
 N E CONTRACTOR
 N E CONTRACTOR

Amar. They are control to control performed to a control of the second s

On November 26 Rufus Cramer of the park and Louise Nye of Livingston were married at the Congregational Church in Livingston. Mr. Cramer is employed as a mechanic with the N_ational Park Service in the park and Miss Nye has been employed at various Government messes for a number of seasons. The newlyweds are residing in the jail building, which building houses one set of quarters.

Yours very truly,

Edmund B. Rogers, Superintendent. wa wait a study of all a state of a sta

e" frit 1 1 1 12

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

TRAVEL REPORT

	This	antonia (antonia (antonia (antonia))) 2011 da - S			
This Mc t.		This Month Last Year	Last Travel Year To Date		ease for el Year Percent
RIVATE TRANSPORTATION:					
ll6	975	103	1280	505	- 23.8
75	795	746	1685	890	- 52.8
ars reentry		2	6	6	-100.0
Dtorcycles 191 Total motor vehicles	1770	851.	2971	1201	- 40.4
<pre>>rsons entering via motor 561 vehicles</pre>	5066	2468	8558	3492	- 40.8
prsons entering via other private transportation					
Total persons entering via private transportation .	3 				
THER TRANSPORTATION:					
arsons entering via stages					
ersons entering via trains					
arsons entering otherwise					
Total other transportation	na po de entre en la compositiva de la Registro de la compositiva de la composi				
GRAND TOTAL ALL VISITORS	5066	2468	8558	3492	- 40.8
		This	Last	Incr	ease

Percent

Number

atomobiles in public camps during month ampers in public camps during month

BDIALTHI SHIT -C. TA HITHANAG SDIVISC MAT SMOTHM

2 Part Street

1

A STATE AND A STATE AND						
10 elle	P. Na averata	179		Car L	5783	0.1 m
213 al	.e. 1	· ``	9.10	1000 E	033	/ x = -3
				U	Ċ	0.005-
ANTE LEE	1-1	197 L	, ,iz	de je je na je	JF-L	0.00 m
NAME AND TRADE IN DESIGN	.Ū ^r is	-	12.54	00.5	Diar	5.05 -

1.13

19.

---- (-_-) %0.Je11

A CONTRACTOR OF A CONTRACTOR O

Transformer (Arres

115 A 15 00 01 A 21

service of privations and

WILLS - AL SOLVAND LOS

OFFICE PROPERTY AND

at all proved some last

Service and service and

L ...

64- -

Contraction and a second second second

10-160

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of November, 1937

	This Year	Last Year
Park revenue on hand beginning of month,	00 000 CD	-
Received,		\$1,614.01
	1,657.16	1,614.01
Remitted,	1,657.16	1,614.01
On hand close of month,	-	-
Park revenues received this year to date,	. \$342	,221.61
Park revenues received last year to date,		,113.96
Increase,		,107.78
Per cent of increase,	·	26.7

*Should have been included in October report.

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Villo Y National Park for the Month of

This Last
Year Year
c revenue on hand beginning of month,
the set of a set of the set of th
2 ¹ , ² , ³ , ⁴ , ³ , ⁴
otal,
50.343.1 N. 700.1
itted,
nand close of month,
k revenues received this year to date,
s revenues received last year to date,
W. 901.07
Increase,

. howa a loto of be alson and over blood

-160

10-159 (ay, 1931)

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of November, 1937

	a gang persempengkan pengkan terp di ana ata artaki re-akan termera artak	anali amadan ah aada ami'a ami'a ami'a ah		ang personana da ana ana ana ana ana ana ana ana
	Thi	s Month	This Mor	<u>nth Last Year</u>
		Non-Appointed	Appointed	Non-Appointed
	Reg. 90			FW 8
mber of employees beginning of month	I HARDING STREET, STRE	6	112	Reg. 58
mber of additions	Reg. 0 CCC * 2	1	Reg. 1	PW 0 Reg. 3
Total	109	7	113	69
mber of separations	Reg. 1		Reg. 7 NOW 14	FW 8 Reg. 29
mber of employees close of month	Reg. 89 CCC 19	3	Reg. 72 Fr 1	32
mber of promotions during month.		-2/8		4/8
gregate amount of annual leave taken	Reg. 59	-3/8 -4/8 -4/8	Reg.	1/8 4/8 4/8
gregate amount of leave without pay.	Reg. 15		0	

*Includes one addition for October.

261-1931)

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellorator National Park for the Month of 2018, 1078

a das successions como como antes de constitución delse e se como		to a state and the state of the		
th Last Year	This Nor	s Month	This	
Non-Appointed	Appointed	Non-Appointed	Appointed	
17 4	same one interference and a set of the set of a set of the set of	and an and a second sec	"at " \$13	
an a	d B 1. Sanda Nugh Sandariana anan sana sa sa sa kana sanan sana pasa s	autoritation and provide the second sec	013 17	er of employees beginning of month
0 (* 3 54 *	* . 353	I	1 - 3. h	
17	37 F 1	la.	1	tal
8 1	¥			
til and			J	er of separations
68		6	10.1 B.	er of employees close of month
	ade e i			
	0		0	∍r of promotions during month
2	2 2 2 2 2 2 3 2 2 2 2	8\E.	000 51'a 000 11:a	egate amount of annual leave taken egate amount of sick leave taken
and appendix to a professions does see allow they take the state and a set of the set of the state and a set of the state and a set of th	0		J.C . 3-41	e_nte amount of leave withcut pay.

"In it was one witting " r Cotoner.

10-163

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yellowstone National Park for the Month of November, 1937

	This				Incre Trave	ease for el Year
			Year		Number	Percent
Current generated,	. 92,800	480,200	83,000	436,500	43,700	10
Sold to park operators,	4,118	58,528	3,498	55,596	2,932	5
Sold to others,	•					
Furnished to other Government agencies,						
Used by National Park Service	9					
lost in transit, etc.,	88,682	421,672	79,502	380,904	40,768	10.7
Total current generated,	92,800	480,200	83,000	436,500	43,700	10

To Operators (1937) \$117.91 Amount receivable from the sale of electricity."...."...(1936) \$176.70....

* Indicated by K. W. H.

0-163

LEP ATTED STATES

THE LEAD FOR BOLD USED THE

110 'w Solar P.F. 107 Lie Month of

10 A2801911	1.8.6.1			And and another second and an and
tevel level			1	-
	Yerr	Ţ.F.	7 ~ ~ 5	
landor Percent	ELEG T	je o	and Dara	
				a con temperature construction of the temperature of tem

sold to others.

agencies, ...

Used by Nacional Forth Carllon

· · · ·	1 & C (2) C +	4	lost ir (ausi . etc
	dear of a	current content	the second second

Land Land Land The stage of the second stage o

Amount race van allou de allo

Indicated by K. W. H.

10-162

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of November, 1937

	This Month	This Month Last Year	Increase	Percent Increase
LOCAL BUSINESS Miles of circuit maintained, No. of telephones connected, No. of measured service calls, No. of other local calls, Total No. of local calls, Peak load in calls per day,	604 275	604 255	0 20	0 7.8
Receipts from measured service calls """ coin boxes, """ telephone rental, TOTAL RECEIPTS				
LONG DISTANCE BUSINESS No. Outbound calls,				
Peak load in calls per day,				
TELEGRAPH BUSINESS Messages via Western Union,				•
Receipts from telegraph business, No. of money transfer messages, " " " " receipts,				
TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-				

DEPARTMENT OF THE INTERIOR

A ONAL PARK SERVICE

ere a los una se con o das estas das trasses

real and the former for the former of the second of the se

	is in North	1.10 ^M 1.10 ^M =	1 des 11 m 1	Phileseta Tarého tel
ON BUSTINES				
<pre>14 JI if control is control of Added of Control is control of Added of Control is control of Control is control is control of Control is control is control of C</pre>		14 M		,
(1) a splitte for a concern and and a splitte split				
STREETS LIVET				
Station - Million - Million - Million				
ο μοτοία Γεροφορία Γεροφορία				
SUMAN RUNCHENT FOR				
en dhat in 111 ar dha andrai man bar, 712 ar freisean				
PROTEINS BURNELS	quint			
stander of the store boots and a standard stan Standard standard stan Standard standard sta			_	-
ະ ເຊຍາຍີ່ເປັນ ເປັນ ອາດາະສາງມາດ ເປັນເຊຍາຍີ່ ເປັນ ອາດາະສາງປະຊາດ ເຊຍາຍີ່ເຊຍາຍີ່ ເປັນ ອາດາຍີ່ ເປັນ ອ			•	
ALL MANALES & THOMESALT DEEDON LONG	1-27			

051_9

	Proj. No.	10-313 As of
	Description of Project	Nevember 30, 1937 (Date)
Bo Minor Roads	Type of Work	DEPAR NA Minor I
No Minor Roads and Trails Projects active.	Mile- age of % Com- Appropria- Proj. plete tion Symbol	DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE Monthly Report of Minor Roads and Trails Projects
	Amount Amount Allotted Expended	Yellowstone (Total Mileage 1 Minor Roads. Trails
	Remarks	Yellowstone National Park (Area) 1 Mileage for Area: inor Roads

UNITED STATES DEPARTMENT OF THE INTERIOR National Park Service Yellowstone National Park Yellowstone Park, Wyoming

November 1, 1937

CIRCULAR NO. 33

Effective today the membership of the Board of Survey will consist of the following members:

C. A. Lord	Park Engineer	(Chairman)
Francis D. LaNoue	Acting Chief Ranger	
Lloyd W. Seasholtz	Chief Electrician	
Fred G. Bussey	Agent Cashier	(Clerk)

Alternates:

Deate T. White General Foreman Roger H. Miller

Mechanic

This circular supersedes No. 1 dated January 21, 1936 and No. 4 dated March 10, 1936.

> Edmund B. Rogers, Superintendent

۰. ۰.

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

November 17, 1937

CIRCULAR MO. 34:

This shall serve as notification of the change of assignment of Park Ranger W. Leon Evans from Old Faithful Runger Station to Mammoth, effective October 27, 1937.

> Edmund B. Rogers Superintendent



UNITED STATES DEPARTMENT OF THE INTERIOR National Park Service Yellowstone National Park Yellowstone Park, Wyoming.

November 29, 1937.

CIRCULAR NO. 35:

Office Order No. 343, dated November 8, 1937, has just been received and lists the furniture and equipment which the National Park Service is allowed to furnish the various types of quarters maintained by the Government in Yellowstone National Park. A copy of this Office Order has been posted on the Storehouse Bulletin Board in order that any employee interested may familiarize himself with its contents. In some instances employees of Yellowstone National Fark have items of equipment or furniture charged out to their quarters which is in excess of that specified in Office Order No. 343. In order to comply with the established regulations in this regard all such items must be returned to the storehouse for credit. Employees having such excess items charged out to their quarters will be allowed to retain them only until their annual equipment inventory is completed by the storehouse. Employees who are using such furnishings, including blankets, sheets, millow cases, and equipment not needed in their official duties, should make necessary arrangements to replace them with personally owned items in the immediate future.

The storekeeper will be glad to check over any employet is list of quarters equipment and advise them which items are to be returned.

Edmund B. Rogers, Superintendent. · · ·

.

•

.

U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU

MONTHLY METEOROLOGICAL SUMMARY

A	ion YI	ELLOW	S'ron					EOROL	MONTH NOVE BER 1937.						
	TEMPERATURE, °F. RELATIVE HUMIDITY (Percentage)						PRECIP	ITATION		WIND		W	EATHER		
T	Maximum	Minimun	Mean	Normal mean	A. M.*	Local noon	P. M.*	Total (inches)	Snowfall (inches), p. m. to p. m.* (unmelted)	Prevailing direc-	Highest velocity	Direction	Percentage of pos- sible sunshine	Character of day (a)	liver stage (fect)
	$\begin{array}{c} 58\\ 50\\ 50\\ 4\\ 50\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	21 20 28 24 29 28 24 29 28 24 29 28 21 29 28 21 29 28 21 29 28 21 29 28 21 29 28 21 29 28 21 29 28 21 29 28 20 29 28 20 29 28 20 29 28 20 29 28 20 29 28 20 29 28 20 29 28 20 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3C 3693584 30432882653347 1428863340 82423142 3263340 82422142 221422	34 34 33 33 32 32 31 30 30 30 30 30 29 99 88 87 77 26 66 25 24 2	77 81 75 80 57 52 90 63 54 61 75 78 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 88 82 56 71 52 90 63 54 61 75 80 57 52 90 63 54 61 75 80 57 52 90 63 54 64 61 75 80 57 52 90 63 54 64 61 75 80 57 52 90 63 54 64 61 75 80 57 52 90 63 54 64 61 75 80 57 52 90 63 54 64 61 75 80 57 75 80 57 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 77 93 82 54 77 93 77 93 77 93 82 54 82 54 82 77 93 77 82 88 82 54 82 54 82 77 83 77 82 88 82 54 82 77 82 88 82 54 82 88 82 54 82 88 82 56 77 88 77 88 82 88 82 56 77 88 77 88 77 88 88 88 82 56 77 88 88 88 88 88 88 88 88 88 88 88 88	59 43 49 35 20 69 34 72 59 20 50 50 50 50 50 50 50 50 50 50 50 50 50	$\begin{array}{c} 68\\ 48\\ 49\\ 26\\ 79\\ 40\\ 91\\ 52\\ 87\\ 90\\ 69\\ 77\\ 92\\ 60\\ 71\\ 72\\ 51\\ 52\\ 54\\ 60\\ 77\\ 92\\ 60\\ 71\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 60\\ 87\\ 72\\ 51\\ 52\\ 54\\ 50\\ 54\\ 50\\ 54\\ 50\\ 56\\ 56\\ 56\\ 56\\ 56\\ 56\\ 56\\ 56\\ 56\\ 56$	10 00 00 00 10 10 10 10 10 10 10 10 10 1	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 T 0.0 0.0 0.0 0.0 1.1 T 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	WWWWSWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	13 12 18 10 23 16 25 20 16 25 20 18 23 20 15 16 20 10 13 12 27 27 24 17 13 10	NSWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	$\begin{array}{c} 53\\ 67\\ 52\\ 79\\ 100\\ 0\\ 55\\ 46\\ 96\\ 74\\ 15\\ 26\\ 0\\ 11\\ 13\\ 41\\ 45\\ 0\\ 0\\ 11\\ 35\\ 0\\ 40\\ 15\\ 74\\ \end{array}$	Pt. Cldy Pt. Cldy Pt. Cldy Pt. Cldy Clear Cloudy	234567890112545678901121212123456789011223456789011223456789012222345678901222222222222222222222222222222222222
le ko al _	38.4	22.2	7 29.	2~	74	56 62	63 65	0.47	8.7 10.0	ST S	27	S 7	36 39		
f*	5; 30	a. m. an	d p. m.,	101) th	meridian	ı time.	T indicates a	trace of preci	pitation.	«Sun	rise to su	uset. ⁱ	Total. [•] Mon	thly.
Inthl	y mean .	5	ROMET	RIC PR					Prevailing d	lirection.	S7	WI	average l	nourly velocity	7.7
F _z hest Ewest_	00	, 59 , 65	, da , da	nte nte	1 1				Highest wir	nd velocit iles from	ty this r	, 01	n	8, in 19	31
l west_ l.trem	es this me	7 onth sinc	, da , da .e_ .7.9 (nte;	10 17		, lowest_		measura	ble preci	pitation	_, partl (0.01 i	nch, or n	5 , cloudy. nore)	13
verage	e daily de e daily de	eparture	since J:	nuary 1		-0, 1020	2		Hail Halos, solar Fog, light	r				mar. 15,	23
0	egree day: t amount		PRECI	PITAT	ION				Frost, light Sleet	Pue	, h	eavy	fog, den:	, killing†	
eparti	re from 1 11ated der	normal t	his mor	nth	2	7			Thundersto						
lowfal	ll, greates v on grou	t 24-hou	r amoui	nt 2	. 6., de	ite	24		Duststorms +Frosts not :	recorded in	Lione autumn	after firs	st "killing",	except in Florida	and along the
	6-04							TOTAL P	RECIPITA		THIS I	MONT	H IN-		
1871. 1872.						4			07 30.0 08 27.2		90	23.2	2	32.2	1.24
1873. 1874.			8586						$_{10}^{09}$ 30.8 $_{10}$ 31.2		22	31.9 25.6	5	³² 33.4 33 33.4 34 34.6	0.56
1875 1876			87 88						11 21.2 12 31.8			32.4		3523.2 3626.8	0.40
1877									13 31. C 14 33. 8		25.	28.8	3	3731.0	0.47
1878 1879			90 - 91			02_ 03_			15.27.2		27	32.2	2	38 39	
1880 1881			92 93			04-	36.4	<u>}</u>	16.23.4 17.36.6			29.3			×
1882			94				27.4		18 26.8		30_	26.4	1.0		
									CI	harle	s L.	How	vard.		

(WB-10-6-37-20M) 554

Charles L. Howard. 12-1-37-75 Weather Bureau.

ł •

