10-23

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO. 143

MONTHLY REPORTS

February, 1927

FEBRUARY - 1927

File

March 4, 1927.

Dear Sir:

The following is a report on the activities of Yellowstone National Park for the month of February, 1927:

000 - General

Superintendent Albright was absent from the park during the entire month of February, and during this time was in Washington, D.C., performing duties in his capacity as Assistant Director(Field). Asst. Supt. Leroy Hill was Acting Superintendent during the month, except the period from February 16-26 while he was on leave of absence. During his absence Clerk Joseph Joffe was Acting Superintendent, and during the rest of the month filled the position of Acting Supervisor. Resident Engineer M. F. Daum had general supervision of the engineering, mechanical, electrical and painting departments and the work of the carpenter foreman.

The same fine spirit of cooperation that has prevailed in the park during the entire winter was in evidence during the month of February and splendid progress has been made in all departments.

Road conditions have been good between the north entrance and park headquarters throughout the month and auto travel has moved daily between these points. Travel on the Cooke City road has been limited to mounted patrols by park rangers and the regular weekly trips of the Cooke City mail sleigh. This travel has been particularly difficult above Soda Butte on account of the snow depths which range from 24 to 72 inches. All other park highways have been closed to travel since November 23rd.

110 - Status of Work

All employees of the shops and office have been very busy all winter but the clerical force has been particularly busy during February because of additional work incident to assembling, cutting of stencils, and mimeographing the minutes of the Superintendents' Conference of 1926, which minutes were sent to this park for putting into final shape. During the winter several hundred letters have been written to persons who visited the park during the 1926 season asking for their comments regarding the park. Applications for employment and requests for Government literature are being received at the rate of about 30 per day.

Banff, 21 1927.

Dear Mr.

The following is a report on the activities of Dominion National Park for the month of January, 1927:

000 - General

Superintendent Wright was away from the park during the entire month of January, and during this time was in Washington, D.C., performing duties in his capacity as Assistant Director(Field). Assistant Supt. Perry Hill was acting Superintendent during his absence. Among the period that Supt. Wright was on leave of absence, during the month of January, Mr. Hill was acting superintendent, and during the same period Mr. Wright was acting superintendent, and during the same period of the month fulfilled the position of Acting Superintendent. Resident Engineer A. E. Jones had general supervision of the engineering, construction, electrical and painting departments and the work of the Superintendent's office.

The same fine spirit of cooperation that has prevailed in the past during the entire winter was in evidence during the month of January and splendid progress has been made in all departments.

Good conditions have been good between the Banff Springs and Mount Norquay Ski Jumping Competitions, the Banff and Lake Louise Ski Club and the Alpine Club of Canada. Travel on the Banff City road has been limited to motorcycles and pedestrians and has regular weekly trips of the Banff City Mail Stage. This travel has been particularly difficult above Bow City Mail Stage. Skin travel has been particularly difficult above Bow Falls on account of the snow drifts which range from 12 to 20 feet. All other pure highways have been placed in travel since December 23rd.

110 - Fences of Park

All employees of the Bridge and Office have been very busy all winter and the clerical force has been particularly busy during February because of additional work involved in assembling, checking of stencils, and checking the minutes of the Superintendents' Conference of 1926, which minutes were sent to Lake Louise for printing late final above. During the month for several received letters have been written to persons who visited the park during the 1926 season making inquiry regarding the park. Applications for employment and requests for government literature are being received at the rate of about 30 per day.

130 - Finance and accounts:

The total appropriation available to Yellowstone National Park for the current fiscal year is $526,406.46. There is a reserve set up against these appropriations of 11,940.00 and an additional sum of $16,774.00 was transferred from the Yellowstone appropriation to the Glacier Park appropriation to take care of a portion of the expense of fighting the forest fire. This leaves a balance available for expenditure in the park of $497,692.46. The close of February 28, 1927, finds the status of these combined appropriations as follows:

| | | |
|---|---|---|
| Total available for expenditure in the park ..... | | $ 497,692.46 |
| Voucher Record Payments | $409,715.57 | |
| Book Liabilities | 3,562.16 | |
| Freight unpaid | 1,241.27 | |
| Salaries unpaid | 95.53 | |
| Meals unpaid | 85.00 | |
| Dr. Windsor unpaid | 213.50 | |
| Total expended and obligated | | 414,913.03 |
| Balance, unexpended and unobligated | | 82,779.43 |

APPROPRIATION 46433 YELLOWSTONE NATIONAL PARK, 1926

| | Allotments | Expended | Balance |
|---|---|---|---|
| Previously reported | $353,083.00 | $352,931.47 | $151.53 |
| Repaid in February | | 27.62 | 27.62 |
| | $353,083.00 | $352,903.85 | 179.15 |

APPROPRIATION 46/47433 YELLOWSTONE NATIONAL PARK, 1926-27

| | | | |
|---|---|---|---|
| Previously reported | 28,700.00 | 27,341.21 | 1,358.79 |
| Expended during February | | | |
| | $28,700.00 | 27,341.21 | 1,358.79 |

APPROPRIATION 47433 YELLOWSTONE NATIONAL PARK, 1927

| | | | |
|---|---|---|---|
| Previously reported | 340,586.00 | 256,606.93 | 83,979.07 |
| Expended during February | | 12,722.68 | 12,722.68 |
| | 340,586.00 | 269,329.61 | 71,256.39 |

APPROPRIATION 4x436 ROADS AND TRAILS, NATIONAL PARKS

| | | | |
|---|---|---|---|
| Previously reported | 125,906.46 | 110,858.69 | 15,047.77 |
| Expended during February | | 1,144.94 | 1,144.94 |
| | 125,906.46 | 112,003.63 | 13,902.83 |

130 - Finance and revenue:

The total appropriation available to Tallamaboma National Park for the current fiscal year is $[illegible]. There is a reserve set up against these appropriations of $1,040.00 and an additional sum of $[illegible] was transferred from the Tallamaboma appropriation; so the Director Park appropriation is now sum of a portion of the expense of digging the drainage ditch. This leaves a balance available for expenditure in the park of $[illegible]. The close of February 4, 1977. Since the closing of these accounts appropriations as follows:

Total available for expenditure in the park .....$ [illegible]

| | |
|---|---|
| Foreign Based Personnel | $[illegible] |
| Auto liability | [illegible] |
| Fuelled vessels | [illegible] |
| Salaries regular | [illegible] |
| Media visual | [illegible] |
| Tm. Visitors guide | [illegible] |
| Total expended and obligated | $[illegible] |
| Balance, unexpended and available | $[illegible] |

APPROPRIATION [illegible] TALLAMABOMA NATIONAL PARK, 1976

| | Allotments | Expended | Balance |
|---|---|---|---|
| Previously reported | $[illegible] | $[illegible] | $[illegible] |
| Spent in February | | [illegible] | [illegible] |
| | $[illegible] | $[illegible] | $[illegible] |

APPROPRIATION [illegible] TALLAMABOMA NATIONAL PARK, 1976-77

| | | | |
|---|---|---|---|
| Previously reported | $[illegible] | $[illegible] | $[illegible] |
| Expended during February | | | |
| | $[illegible] | $[illegible] | [illegible] |

APPROPRIATION [illegible] TALLAMABOMA NATIONAL PARK, 1977

| | | | |
|---|---|---|---|
| Previously reported | $[illegible] | $[illegible] | $[illegible] |
| Expended during February | | [illegible] | |
| | $[illegible] | $[illegible] | $[illegible] |

APPROPRIATION [illegible] FOREIGN AID TRAINING, MOTORWAY PARKS

| | | | |
|---|---|---|---|
| Previously reported | $[illegible] | $[illegible] | $[illegible] |
| Expended during February | | [illegible] | [illegible] |
| | $[illegible] | $[illegible] | $[illegible] |

APPROPRIATION 47406 INSECT INFESTATION, N. P., 1927

| | Allotments | Expended | Balance |
|---|---|---|---|
| Previously reported | $2,500.00 | $ 1,041.00 | $1,458.90 |
| Expended during February | | | |
| | 2,500.00 | 1,041.00 | 1,458.90 |

150 - Equipment and supplies

Employees of the Transportation Department were engaged during the month in hauling coal and moving supplies at headquarters, hauling coal from Gardiner to Mammoth (200 tons), gasolene and market supplies from Gardiner to Mammoth and hay for elk.

Commissary employees were engaged in inventorying supplies, building shelves for equipment, receiving and storing supplies, issuing supplies and equipment, repairing tools and equipment for road camps, cleaning out garage and shops, cleaning Mammoth dump, stables and yard, and burning bridge and the old target range house near Gardiner.

200 - Maintenance, Improvements and New Construction

210 - Maintenance

No road maintenance has been done this month. It has been necessary to clear the roads of snow twice during the month so that traffic could reach Mammoth.

220 - Improvements- Buildings

Carpenter Shop: The two carpenters have made the usual small maintenance repairs around the different buildings, in addition to building shelves and bins in the Plumbing Shop, Electrical Shop and Commissary and Garage. They have also built a stake platform body for a White truck and repaired three stake bodies for our FWD freighters.

Painting Department: The following work was done by the Master Painter: Finished Sprinkel's quarters complete - painting, varnishing, kalsomining, cleaning, etc.; decorated lodge room complete; glazed 32 pieces of glass during February; started work at Judge Meldrum's quarters on February 26th. Three days were devoted to cleaning the paint shop and miscellaneous work.

Plumbing Department: The following work was done by the Plumbing Division during the month: Six steam plants and four hot water plants were operated during the month, consuming 53 tons of coal. Four new grates were installed in heating boiler in office building; built heavy stovepipes for heating stoves in Bowman's quarters and in paint shop; installed large rap valve on steam boiler in new central plant; repaired roof of school house; charged 12 fire extinguishers; installed drain pipes from refrigerator in Mr. Hill's quarters; made heavy sheet iron cleanout pans for chimneys in Mr. Burrell's quarters; installed new low down toilet complete in Sprinkel's quarters; installed new water back in range in Beatty's quarters; roughed in plumbing work for bath, toilet, wash basin and 40-gal.range boiler in McFarland's quarters; installed new faucets and sink in Collins' quarters; thawed out gates at reservoir and general maintenance work to water and sewer systems at Mammoth.

## 190 - Equipment and supplies

Employees of the Transportation Department were engaged during the month in hauling coal and driving supplies at headquarters, hauling coal from Gardner to Kenosha (100 tons), receiving and distributing supplies from Janitor to Sanitary and Day for six.

Correctional employees were engaged in inventorying supplies, building shelves for equipment, receiving and distributing supplies, loading supplies and equipment, repairing tools and equipment for road crews, cleaning and painting and other, cleaning Kenosha Jail, painting and yard, and hauling trifin and the old target range lumber from Kenosha.

## 200 - Maintenance, Improvements and New Construction

### 210 - Maintenance

No road maintenance has been done this month. It has been necessary to clear the roads of snow twice during the month so that traffic could reach Kenosha.

### 220 - Improvements- Buildings

Gardner Farm: The two storage barns and the usual small maintenance repairs around the different buildings, in addition to building shelves and bins in the Plumbing Shop, Electrical Shop and Blacksmithing and Welding. They have also built a stone platform only for a fifth wood and repaired three stone bodies for our 200 freighters.

Waukesha Department: The following work was done by the Gardner Farmer: finished Superintendent's quarters complete - painting, varnishing, wallpapering, cleaning, etc.; decorated lodge room complete; cleaned 22 pieces of glass during February; started work on lodge Matrons's quarters on February 26th. Three men were devoted to cleaning the police shop and miscellaneous work.

Waukesha Department: The following work was done by the Plumbing Division during the month: The steam plants and fire and water plants were operated during the month, consuming 57 tons of coal. Four new grates were installed in heating boiler in office building; Lake Shore storehouse for marking stores in Superior's quarters and in point shoot installed large rug valve on steam boiler in new central plant; repaired roof of school house; changed 12 fire extinguishers; installed fresh pipe from refrigerator in Mr. Hill's quarters; made heavy steel line cleanout pipe for drainage in Mr. Sorrell's quarters; installed new lav. and toilet complete in Superintendent's quarters; installed new water heat in room in Smith's quarters; required in plumbing work for sets, toilet, sink trap and 40-gal. range boiler in Superintendent's quarters; installed new faucets and sink in Smith's quarters; cleaned out gates at reservoir and general maintenance work in water and sewer systems at Kenosha.

Electrical Department: The employees of this department were engaged during the month in rearranging and cleaning up the shop, and general maintenance work around headquarters.

Garage: The Master Mechanic and his assistants did the following work during the month: Miscellaneous repairs on three freight trucks; made a thorough inspection of Quad. No. 533 (sprinkler); overhauled completely 2 freight trucks No. FWD 515 and Graham No. 546; overhauled completely 3 tank trucks No. FWD 522, 525 and 526; overhauled completely 2 cars, Dodge #11 and Dodge #16; overhauled 1 power drag saw and 15 dump wagons.

230 - New Construction - Roads

There has been no road work carried on during the month.

260 - Landscape Work

No work along this line has been done this month.

300 - Activities of Other Agencies in the Park

311 - Character of Service Rendered to the Public

The general store at Mammoth Hot Springs has been operated throughout the month for the convenience of park residents and visitors; meals can be had at the community mess house at park headquarters, and lodgings are provided special visitors upon request.

400 - Flora, fauna and natural phenomena

410 - Ranger Service

Chief Ranger Woodring was in the headquarters district from the 1st to 12th during which time his activities consisted of elk and deer feeding, the capture and shipment of 55 elk, ski patrols on Glen and Reece Creeks, mounted patrols of the sheep and antelope range, repairs to saddle horse and pack equipment and repairs to the elk corral and catching pen. He was on a ski patrol and tour of inspection in the Western and Southern Supervisory Territories from the 13th to 20th inclusive, proceeding via Norris and Madison Junction to Riverside Station, near West Yellowstone, and from thence to the Bechler River Station along the west boundary, distance 96 miles. Snow depths along the west boundary were noted as follows: West Yellowstone 60 inches, South Riverside Cabin 102 inches, Buffalo Lake Cabin 118 inches, Boundary Creek Cabin 108 inches, Bechler River Station 107 inches. Blizzard conditions prevailed throughout the west boundary patrol and he broke through waist deep at many points. The South Riverside to Buffalo Lake patrol, distance 16 miles, required a ski trip of 17 hours' duration. His plans to patrol east from Bechler

Station along the south boundary to Snake River, Upper Yellowstone and along the east shore of Yellowstone Lake were postponed in order to comply with a request of the Park Superintendent that a count of the Yellowstone elk herds be submitted to the Washington Office at the earliest practicable date. He proceeded from Bechler Station to Ashton, Idaho, on the 21st and from thence by train to park headquarters, arriving on the 23rd. The elk count has been in progress since the 24th and a detailed report will be submitted on or about March 2nd.

Assistant Chief Ranger Trischman has made extensive patrols in the western and central areas during the month. He has covered the entire west boundary during the last half of the month. His patrols earlier in the month were from Riverside to Old Faithful, and from thence to park headquarters from which point he patroled the district lying west and north of Sepulcher Mountain and later return to his duty station, via Norris and Madison Junction, on the 15th. He is now patroling the elk range in the Gallatin District.

Assistant Chief Ranger Douglas has been engaged in the following activities during the month: Routine work at headquarters station, supervision of elk and deer feeding at Slough Creek and Mammoth, assisting with elk captures for shipments, mounted patrols and tours of inspection in the Northern Supervisory Territory, repairs and maintenance to telephone lines and assisting with the elk count now in progress.

Assistant Chief Ranger Lick has been in the Southern and Central areas throughout the month; his patrols have included the Canyon, Lake, Thumb and Snake River Districts. He reports unusual snow depths and generally good conditions at all points covered by his patrols.

Assistant Chief Ranger Greer was engaged in the routine work of the Chief Ranger's office during the first 12 days of the month, consisting in part of correspondence with applicants for temporary ranger appointments, preparation of the protection department estimate for the fiscal year 1929, the preparation of a special report of plans and equipment for forest fire prevention and control in Yellowstone Park with recommendations for future improvements. He also assisted with the Nature Notes publication, and on the 13th to 15th inclusive accompanied the Chief Park Ranger on a ski patrol from headquarters to Riverside Station. He proceeded from Riverside Station on annual leave on the 17th enroute to Ashton, Idaho, to attend the annual dog derby. The trip was made on skis along the railroad right of way, distance 56 miles, during an interval of 3 days' travel time. He returned to headquarters by train on the 26th, and has since been engaged in report compilation and the other routine work of the Chief Ranger's Office.

The duties of rangers in the various station districts have consisted of the regular winter season patrols, predatory animal hunting, emergency repairs and maintenance to telephone lines, snow removal from buildings, horse feeding at the Yancey Ranch, wild animal feeding in the Mammoth and Slough Creek Districts, assisting with the capture of elk for shipment, special mounted and ski patrols in connection with the elk count

now in progress and routine station duties. All patrols have been regularly made throughout the park, and conditions are good.

470 - Animals

Forage conditions have materially improved since the January report. Mild temperatures and warm winds have caused the snow to rapidly disappear from the lower levels and many of the exposed ridges are now windswept. Extensive areas of good forage have been uncovered during the past two weeks. The elk, deer and other wild animals are wintering splendidly. Losses resulting from lack of forage and winter season severities have been slight.

Elk: A special count of the Yellowstone elk herds has been in progress since the 24th and a detailed report will be included herein. Representatives of the Forest Service and the State Game Department of Montana are cooperating with us in our efforts to secure the best possible count. Practically the entire ranger personnel in the Northern and Western Supervisory Territories, has been assigned to this work. The elk are widely scattered over their winter range. Very little of this range within the park can be covered under present conditions by mounted patrols. Skis and snowshoes are used almost exclusively. Six hundred and fifty elk have been fed at the Slough Creek ranches throughout the month. Barely more than 200 have been frequenting the feed ground at Mammoth and their appearances have been somewhat irregular during the past two weeks as many of the nearby ridges are now uncovered and they prefer the natural forage to artificial feed. Shipments have been made during the month as follows:

| | | |
|---|---|---|
| State Game Warden of Arizona, 1 carload shipment, of 41 cows and 14 bulls ..... | | 55 |
| Col. W. W. Johnson of Mexico, Mo., 1 bull..... | | 1 |
| | Total..... | 56 |

The Arizona shipment arrived at its rail destination without loss but I am informed that a loss of seven was occasioned by their removal from the car to the various distant points where they were finally released. The young bull shipped to Mexico, Mo., is reported to have died en route and we are now corresponding with the consignee with the view of shipping him another to cover the loss. Our elk shipments this season to date total 74, with a loss of only one en route. One car load shipment of 30 to the State Fish and Game Department of Montana has been recently authorized by the Director and we plan to make the shipment, if possible, on or about the 6th of March. Five losses from winter kills and accidental causes have been observed during the month which together with 20 previously reported makes a total of 25 this season to date.

The special count of the Yellowstone elk herds as directed by the Park Superintendent is reported in detail as follows:

| | |
|---|---|
| Cooke City Ranger Station to Soda Butte Cabin | 186 |
| Mt. Norris, Cache Creek, Soda Butte & Lamar River | 238 |
| Miller Creek and Upper Lamar River District | 35 |
| Soda Butte to Rose Creek | 352 |
| Slough Creek above the canyon | 777 |
| Slough Creek to Rose Creek along north side of Lamar R. | 113 |
| Amethyst Creek to Tower Falls along the summit of Specimen Ridge | 419 |
| Amethyst Creek to Tower Falls along the north slope of Specimen Ridge | 498 |
| Tower Falls and vicinity | 334 |
| Tower Falls to Blacktail between highway and Yellowstone River | 685 |
| Slough Creek to Hellroaring, area north of Slough Creek, Lamar and Yellowstone Rivers | 838 |
| Blacktail to Gardiner River along west slope of Mt. Everts | 81 |
| Area southwest of Old Blacktail Cabin | 115 |
| Area southeast of Old Blacktail Cabin and south of Tower Falls Road | 132 |
| Lava Creek from Gardiner River to points in the vicinity of Wraith Falls | 108 |
| Rescue Creek and vicinity | 227 |
| Northwest slope of Mt. Everts | 270 |
| North slope of Mt. Everts and target range | 665 |
| Mammoth Parade Grounds and vicinity of Buffalo Corral | 61 |
| East of power plant and in vicinity of catching pen near Gardiner River | 189 |
| Ball park near 1 mile post north of Mammoth | 62 |
| Ice Lake and vicinity | 132 |
| East slope of Sepulcher Mountain from horse pasture to Hoppe Creek | 900 |
| Along Hoppe Creek | 250 |
| Horse pasture and Primrose Creek | 104 |
| Bull Mountain, Hellroaring and Coyote Creek vicinity | 97 |
| Hellroaring Creek to Crevice Station along east side of Yellowstone River, including Crevice and Cottonwood Basins | 1059 |
| Crevice Station along park boundary to Buffalo Flats | 221 |
| Snow Pass, Glen Creek and southwest slope of Sepulcher Mountain | 104 |
| Along highway from Golden Gate to Norris | 22 |
| On meadows along Gibbon River between Norris and Madison Junction | 38 |
| On meadows along the Madison and Firehole Rivers, including the Y.W. pasture in the Riverside District | 248 |
| Grayling Creek District and Madison National Forest | 150 |
| Pelican Meadows, Lake District | 23 |
| Warm basins in Snake River District | 44 |
| Warm basins along Boundary Creek-Bechler River Dist. | 13 |
| Solfatara Basin, Canyon District | 7 |
| Meadows along east arm of Yellowstone Lake | 10 |
| Total of counts within the park | 9,807 |

Counts on area north of Park Boundary along the Yellowstone River

| | |
|---|---|
| Power House on Bear Creek, Decker's Ranch and vicinity of McCauley Mill | 250 |
| East side of Yellowstone River from Dailey's Basin to Jardine | 1890 |
| Head of Tepee Creek, Green Lake and Quaking Ash Hollow | 23 |
| Sphinx Creek, Yankee Jim Ridge and West Side of Lower Molheron Creek | 35 |
| Cinnabar Mountain | 272 |
| Upper Molheron Creek | 65 |
| Vicinity of Aldrich | 30 |
| Reece Creek | 285 |
| Land within Game Preservation Ranch and on forest land back of it | 386 |
| Total of counts outside the Park | 3236 |
| Total count exclusive of the Gallatin Herd | 13043 |
| Plus addition of 10% allowed for all that escaped observation and not included in above actual counts | 1304 |
| Plus estimated total of the Gallatin Herd | 3000 |
| Grand Total | 17347 |

The estimated total of the Gallatin Herd is based on counts secured by the State Fish and Game Department of Montana and the Forest Service and Park Service men after the close of the hunting season early in the winter, and it is agreed that a total of 3,000 is a conservative estimate of the number in this herd.

The counts within the park include 1149 prime bulls. The spike bulls were not separately counted. The reports from outside the park contained no separate counts of the bulls although it was noted that the number seen was considerably less than the number known to be in the district. Nearly all the bull counts submitted were from remote points along the high ridges and it is presumed that a great many escaped observation as the bands were more widely scattered than ever before at this season of the year. These conditions were considered when 10% was added to the actual count. Only 5 dead elk were seen during the entire count. One of these had bogged down in a sinkhole in the Blacktail District, another had drowned in Slough Creek and three were winter kills. Herd conditions are, in general, the best ever seen at this season of the year. Some losses, however, are anticipated among the old animals on the feed ground at Slough Creek and a few old cows and weak calves along the east side of the Yellowstone River between Hellroaring and Crevice Mountain.

Deer: There were no unusual deer counts submitted during the month although they have been seen in their usual numbers at points noted in previous reports. The losses observed during the month consist of 5 coyote kills; 1 occurred in the Mammoth District, 1 in the Gardiner District and 3 in the Hellroaring District, total 5. The season total is 26, exclusive of the kills made by hunters. Total losses from all causes 136.

Dockets on area north of Fort Dougherty along the Salisbury River

Power House on Fort Street, Jones's Bluff and vicinity of Salisbury Mill 450
East side of Salisbury River from Dally's Dock to Jackson 1,000
Road of Depot Street, Grove Ave and Dunlap and Bailey Quarter Street, Jackson Ave Ellis and East Side of Lower Salisbury Creek 35
Dinsmore Avenue 275
Upper Salisbury Creek 50
Fielding of Alfred 5
Dock Street 340
Land within Dam Preservation Lands and of Forest Land Lake of it 750
Total of Acres outside the Park 2,015
Total Acres acquired of the Delisle Tract 1,840
Total Addition of Lot allowed for all that Secondary Conservation and not included in above actual acreage 1,001
Plus acquisition total of the Delisle Tract 2,015
Grand Total 4,856

The acquisition total of the Delisle Tract is based on tracts acquired by the Town Plan and Dam Department of Trustees and the Forest Service and Park Service now after the close of the Depression years early in the century, and it is agreed that a total of 2,000 is a conservative estimate of the acreage in this tract.

The Delisle village the park inside 1,840 prime land. The prime walls were not separately counted. The reports from actual the park contained no separate counts of the walls although it was noted that the number seen was considerably less than the number found in the 19 prints. Nearly all the well known associated were from remote points along the high ridges and it is presumed that a great deal more regional preservation in the hills were widely scattered then were before as this season of the year. These conditions made measurement when 10% was added to the actual count. Only 8 dead elk were seen during the entire count. One of these had lodged down in a ravine in the Glendell District. Another had trampled in dense cover and there were slight rills. Bad conditions are, in general, the best ever gave as this season of the year. Some lambs. However, gun motivated among the animals on the road grades at dusk and a few old foot and wood, and we along the west side of the Salisbury River crossing Salisbury and Dewville Bridge).

Deer: There were no cougar deer crossing road this during the month although they have been seen in their usual numbers at points noted in previous reports. The lamps observed during the month consist of 2 engage rills; 1 observed in the Dunn's District, 1 in the Dewville District and 2 in the Glendale District, total 4. The season total is 26, equivalent of the rills made by hunters. Total losses from all causes 126.

There will be some losses among the old does and fawns in the Hellroaring District as quite a few have been recently observed in a weakened condition. However, it is not considered that these losses will be in excess of normal.

Antelope: There are now 230 antelope on their winter range outside the park. Their movements and condition are observed daily by the ranger assigned to the special antelope patrol. There is very little snow in this area andforage conditions are good. A loss of one, a winter kill, occurred during the month. The snow is rapidly disappearing from their range within the park and the bands are all in excellent condition. 198 were counted on the north slope of Mt. Everts on the afternoon of February 28th and several small bands are ranging the slopes of Sepulcher Mountain. There has been a loss of only 4 this season to date.

Sheep: The following sheep counts have been submitted by rangers on patrol during the month: Mt. Norris 38, Specimen Ridge 83, including 27 rams, Junction Butte 12, Junction of Slough Creek and Lamar River 18, Mt. Everts 24, Yellowstone Canyon near mouth of Bear Creek 11, Hellroaring District along the Yellowstone 21, total 207. No losses have been observed during the month.

Moose: The moose reports of the past month have not been unusual in any particular. Their condition is excellent and no losses are known to have occurred.

Buffalo - Lamar River Herd: There has been an average of 600 buffalo on the feed ground throughout the month. All the hay on the upper meadows had been fed by the 21st and on this date they were removed to a new feed ground on the lower meadows. They were extremely restless prior to their removal to the new feed ground and four stampedes occurred. Five cows have aborted during the month. The herd is in excellent condition. The calves have been segregated from the main herd since January and they are in equally as good condition as the adults.

Buffalo - Cold Creek-Pelican Creek Herd: Rangers on patrol in the districts frequented by this herd have observed a band of 12 near Saddle Mountain, a band of 6 on Mt. Norris and a band of 5 near the Pelican Creek Cabin. A few signs were also observed in the vicinity of Cold Creek.

Two buffaloes are reported to have recently appeared in the vicinity of Riverton, Wyo., and there is reason to believe that they have drifted from one of the remote bands on the headwaters of the Lamar. It is quite possible that their drift was down Pelican Creek and along the east shore of Yellowstone Lake and that they left the park via the Upper Yellowstone. This drift could be variously estimated at from 250 to 300 miles. An inquiry has recently been addressed to Dr. Thomas E. Winecoff of Riverton, Wyo., requesting all information obtainable concerning these animals.

There will be more lumber upon the old farm and farms in the Hollycorning District in view a few years hence, certainly enough to a material condition. However, it is not anticipated that large losses will be encountered.

Livestock: There are now 295 milking cows in Black River Township. Their owners and conditions are observed daily by the Ranger assigned to the township patrol. There is very little snow in this area. Sufficient conditions are good. A loss of one, a minor bill, occurred during the month. The above is actually distributed from their range within the park and the herds are all in excellent condition. Off park grazing in the north slope of Mt. Morris on the afternoon of February 27th one cow, several small calves are roaming the slopes in impulsive movements. There has been a loss of only 4 this season to date.

Fishing: The following stocks lakes have been established by rangers on patrol during the month. Morris 2, Grassmere Lake 1, Lockington 27, Moon, Jacobin Lake 12, Junction of Black River and Lake River 12, Ca. Trout 12, Lollipop Lake 2, Lower Moon of Lower Green 12, Whitewater Lake along the Ellenbrook 12, total 97. No losses have been observed during the month.

Game: The game reports of the park month have not been unusual in any particular. Daily conditions in wildlife and in losses are found to be normal.

Mining - Lower River Park: There has been an average of 600 miners on the Lower Green Ecological the month. All day as the upper reaches had been fed by the rain and on this date they were reported to a few gravel on the lower reaches. The were generally receives going to their regular in the few fine gravel and their equipment analyses. Fire come here another during the month. The base is in excellent condition. The mains have been segregated from the milk but which should and they are in equally as good condition as the mains.

Mining - Joli Gravel-Ration Green Park: Miners as usual in the district disposed of this part have operated a head of 12 men during November, a head of 6 on Mt. Morris and a head of 2 near the Falcon Trees depth. A few signs were also observed in the vicinity of Lake Green.

The activities are confined to some country remaining in the vicinity of Lockington, Ont. and there is reason to believe that they have drifted from one of the people north on the Junction of the Lower. It is quite possible that some drift are down Falcon Trees and along the main part of Lockington Lake and that they left the park on the upper Falcon-crum. This drift would be certainly followed as from 250 to 300 miles. In January has recently been delivered to Dr. Dunne a. Ministry of Interior, Ont., regarding all information obtainable concerning these subjects.

Bears: A large black bear that has been hibernating under the hotel at Yellowstone Lake appeared on the trails in the vicinity of the buildings on the 19th. He was out during an interval of 2 days. His activities consisted in part of the theft of a ham from the winter keeper and after finding nothing further of interest he returned to his den. This is the first and only activities of bears reported since late last fall with the exception of the captive bear Juno at headquarters station. Frequent visits have been made to his den during the past two months and we find that he is easily aroused but is very sluggish in his movements; he accepts very little food and rarely emerges from his den. His disposition is harmless and gentle.

Predatory Animals: No lion or wolf signs were observed during the month and there has been very few signs of predatory activities by lions or wolves this season. This is the mating season for coyotes and they have been seen in unusual numbers during the past 3 weeks. It is not unusual to see from 2 to 4 running together. They are always seen in close proximity to bands of elk, deer, antelope or sheep, but they have made comparatively few kills this season to date. Twenty-three coyotes were killed by park rangers during the month, which, together with 185 previously reported, makes a total of 208 this season to date as compared with 225 to March 1st last year, and 163 to March 1st, 1925.

Small Animals: There is nothing of special interest concerning small animals at this time.

Water Fowl: Ducks and geese are increasing in numbers along the Yellowstone and Madison Rivers and their tributaries and swan have been seen as usual at several points.

Buffalo and Other Ranch Operations: The principal activities at Buffalo Ranch have consisted of the care and feeding of the herd. Considerable difficulty has been experienced in keeping them on the feed ground and four stampedes have occurred. There has been an average of 600 on the feed ground throughout the month exclusive of the calf herd which numbers 109. Other activities have consisted of the care and feeding of horses and routine work at the ranch. One hundred and eighty-five tons of hay was fed to the buffalo and 7 tons was fed to the horses during the month.

The activities at the Slough Creek Ranch have consisted principally of elk feeding and the care and feeding of the ranch horses. Elk feeding began at this point on January 18th. There has been an average of approximately 650 on the feed ground daily and 84 tons of hay has been fed. Other activities have consisted of routine work incident to the maintenance and upkeep of the ranch property.

The activities at the Yancey Ranch during the month have consisted of the care and feeding of the Park Service and ranger horses by the ranger

Bears: A large black bear that has been wandering under the motel at Yellowstone Lake appeared on the trails in the vicinity of the building on the 19th. It was met during an interval of 2 days. His activities consisted in part of the theft of a lunch from the window ledge and after finding nothing further of interest he returned to his den. This is the first and only activities of bears reported since late fall with the exception of the capture near Jackson of bandit-bear bicycles. Frequent visits have been made to his den during the past two months and he did not be in really stressed but is very sluggish in his movements. He accepts very little food and rarely emerges from his den. His disposition is mentioned and gentle.

Predatory Animals: No lions or wolf packs were observed during the month and there has been very the signs of predatory activities by lions or wolves this season. This is the months reason for coyotes and they have been seen in numbers during the past 2 weeks. It is not unusual to see from 2 to 3 running together. They are always seen in close proximity to herds of elk, deer, antelope or sheep, but they have not successfully for kills this season in each. Nearly-three coyotes were killed by park rangers during the month, together with 157 previously reported, making a total of 208 this season to date as compared with 285 to March 1st last year, and 157 to March 1st, 1925.

Small Animals: There is no thing of special interest concerning small animals in this time.

Water Fowl: Swans and geese are increasing in numbers along the Yellowstone and Madison Rivers and their protection and care have been under a careful policy.

Bufflo and Other Range Animals: The principal activities at Buffalo Ranch have consisted of the care and feeding of the herd. Considerable difficulty has been experienced in keeping them on the feed ground and their movements have varied. There has been an average of 300 on the feed ground throughout the month exclusive of the calf herd which numbers 109. Other activities have consisted of the care and feeding of horses and routine work at the ranch. One hundred and eighty-five bales of hay was fed to the buffalo and 7 tons was fed to the horses during the month.

The activities at the Elkhorn Creek Ranch have consisted principally of elk feeding and the care and feeding of the ranch horses. All feeding began at this point on January 10th. There has been an average of approximately 550 on the feed ground daily and 55 head of hay has been fed. Other activities have consisted of routine work incident to the maintenance and upkeep of the ranch property.

The activities at the Lamar Ranch during the month have consisted of the care and feeding of the fish hatchery and ranger duties by the ranger

in charge at Tower Falls Station. The only activities at the Gardiner Ranch have consisted of hay hauling for elk and deer feeding at Mammoth. This work was performed by rangers. A detailed report of all hay fed at the various ranches during the winter season will be submitted when these activities are concluded. Measurements of the balance on hand at the various ranches at that time will enable us to determine the exact amount fed. The weights submitted from month to month are necessarily inaccurate as the hay is not measured or weighed at the time it is removed from the stacks.

480 - Natural Phenomena

Mammoth Hot Springs: It would appear that the hot springs are resuming their activity - one of the earliest signs of preparation for the coming season. The only changes since last month are for the better.

The lower spring on Hymen Terrace is very hot and there is more water coming out of it than there has been for some time. The main spring here and the one at the foot of Devil's Thumb are barely existent.

Cleopatra evidences more activity than all during the past summer, the spring nearest the Terrace Trail having covered a large area with ice and a new opening having appeared on the north face of the old terrace which has been dry for a number of years.

The east face of Mound, tho it has been covered with snow all winter, has not lost its yellow coloring which has been there since last season when it was active. At present this portion seems to be warming up as from some of the cracks steam is issuing. The western spring is very active again, flowing down on two sides and covering the formation between Mound and Pulpit with a sheet of ice nearly two hundred yards square.

The Jupiter Springs are much the same as they were at the beginning of last summer. A great quantity of very hot water is issuing from the spring farthest south, the two pools are both full and the largest one is overflowing somewhat toward the west but none over the face of the terrace, and the new spring which broke out at the close of the season is about as active as it was at this time last month.

All of the springs above the level of Jupiter are about the same as they were last month with no activity on or about Angel Terrace, White Elephant, Orange Spring, Bath Lake or Soda Spring. Stalactite and Stygian Caves are both very beautiful, being filled with icicles, some of them as much as fifteen feet long. Devil's Kitchen was again carefully examined for bats and as before no traces were found.

Many squirrel, mouse, jack rabbit, snowshoe rabbit, elk, deer and two marten tracks were noted in the vicinity of the formations.

is charge of Tower Falls station. The only activities at the Yellowstone hotel have consisted of bag handling for six and more twelve month. This work was performed by Indians. A detailed report of all map for at the Yellowstone meeting during the winter months will be submitted when these activities are completed. Preparations of the Yellowstone on hand of the various features of that time will enable us to identify the exact amount for. The activity additional from month to month are necessarily inconvenient as the map is not constructed as valuable by the time it is received from the press.

4b - Natural Resources

Research for geologist. It would appear that the last section has remaining field activity - one of the earliest aims of preservation for the geologic events. The only geologic aims that month are for the winter.

The lower spring on Tower Falls is very hot and there is more water coming out of it than that was seen for some time. The rain during June and the end of the rest of April's fogs are highly evaporating.

Geysers - Yellowstone were definitely down all during the past season. The spring between the Twelve Trail having formed a lower area with the end a bar growing having appeared on the north face of the old terrace which has been dry for a number of years.

The east face of Mount, but it has been covered with some all winter, but not just the yellow material which has been there since last season when it was melted. It remains this position from 9 to 12 morning as the time down of the shade phase is lessened. The western spring is very active again, flowing down on her side and covering the formation between Mount and Pilgrim with a depth of the nearly the Sunset terrace spring.

The Jupiter Springs are much the same as they were at the beginning of last summer. A great quantity of very hot water is issuing from the spring further south, the two pools are full and the largest was overflowing somewhere toward the west but since the time of the terrace, and the spring coming from out of the side of the terrace, which is now at this time last month.

All of the springs above the level of Jupiter are down the same as they were last month so actively on or about Sunset Terrace, Pink Cauldron, Orange Spring, Hot Lake or Silk Spring. Valentine and Pilgrim Terrace are both very quietly, being filled with liquid. Some of them made as fifteen feet long. Devil's Kitchen was again currently revisited for bake and as before as three year found.

Bang spring, Cooper, Jane Roberts, Sunshine Point, etc, Lake and hot water springs were noted in the vicinity of the Fountains.

Upper Geyser Basin: The geyser activity during the month has been, on the whole, noticeably more vigorous than the corresponding month last year. While there has been a marked slowing down in many cases it in no way equals the exceptional irregularity of the preceding winter.

The outstanding event of the month was an unusually vigorous eruption of the Giant on February 4th. The last eruption was on October 20th an interval which is quite consistent with the three months period over which this geyser appears to be operating.

Riverside is performing very close to its summer standard; the interval is unchanged (7½ hours) and there is only a slight reduction of water being ejected. The same is true of Daisy althe its indicator, Bonita Pool, is so irregular as to be quite undependable. Grotto seems to be in eruption less frequently than usual. Its partner, Rocket, is displaying unwonted vigor. Castle is still playing in its ordinary spurting manner; this is the longest period without a "big eruption" ever witnessed.

Grand has been observed in eruption somewhat less frequently than in January but more so than in February of 1926. There is little change in the character of its activity. Sawmill has become very erratic, playing continuously for a day or more and then becoming dormant for an equal period. The Lion Group has not fulfilled its early promise of unusual activity. However, the Dragon, a minor geyser nearby, has been extremely active in its small way. Both Giantess and Beehive have been dormant during the two months of the current year.

While Old Faithful is playing much more nearly on its summer schedule than last winter it still departs somewhat from its usual clock-like regularity. Six consecutive eruptions averaged 67 minutes; however, irregular intervals (45 to 75 minutes) are more frequent than in summer. There is practically no change in the elevation attained but the duration of the eruption is conspicuously shorter.

Lone Star Geyser has not been seen in consecutive eruptions but the single eruptions were quite normal. Biscuit Basin is unchanged and the same may be said for Black Sand Basin except for the fact that the Spouter drained early in the month and remains so at the time of writing.

500 - Use of Park Facilities by the Public

510 - Increase or decrease in travel

All entrance and exit travel during the month was via the Gardiner Gateway. There was no travel beyond park headquarters. Winter season visitors are not registered and we have no exact check of the travel. However, travel conditions have been good between Livingston,

Montana, and park headquarters, and there has been a limited number of local visitors. Thirty-two traveling in 15 cars are known to have journeyed to headquarters since the last report. The preseason travel to date consists of 1299 visitors traveling in 479 cars, as compared with 514 visitors traveling in 164 cars for the same period of preseason travel last year.

520 - General weather conditions

521 - In the park

Temperature: Monthly mean, 22.9°. is 3.3° above normal. Comparatively mild temperatures prevailed throughout the month, except a few days of moderately cold weather at the beginning of the second week. No adverse winter conditions occurred. The highest temperature was 40° on the 21st; lowest -9° on the 9th.

Precipitation: Total, 0.86 inch, is 0.98 inches below normal. Light snow occurred at frequent intervals. The greatest 24-hour precipitation was .28 inch, mostly rain, on the 20-21st.

Snowfall: Total 6.9 inches; normal 14.8 inches. The greatest depth of snow on the ground was 7.8 inches on the 1st; at the end of the month there were 6.8 inches of compact snow, slightly crusted.

Wind: Average hourly velocity was 10.4 miles; normal 8.1 miles. The unusually light wind movement of the first half of the month was followed by a week of strong velocities, the highest being 40 miles per hour from the southwest on the 21st.

Sunshine: Percentage of possible 41; normal 54. Number of days clear 3, partly cloudy 9, cloudy 16, with .01 inch or more precipitation 19.

Form 1030 is attached hereto.

Snow Depths: Snow depths throughout the park with comparative figures for 1926 and 1925 are noted as follows:

| Station | Inches 1925 | Inches 1926 | Inches 1927 |
|---|---|---|---|
| Buffalo Ranch | 16 | 13 | 17 |
| Soda Butte Cabin | 14 | 14 | 24 |
| Cooke City Station | 37 | 40 | 62 |
| Tower Falls | 19 | 10 | 18 |
| Old Faithful | 41 | 33 | 52 |
| Lake | 34 | 37 | 44 |
| Thorofare | 48 | 39 | 60 |
| Hellroaring | 17 | 8 | 16 |
| Norris | 28 | 22 | 36 |
| Canyon | 43 | 42 | 54 |

Gardens, and Park Headquarters, and there has been a limited amount of local visitors. Drive-in traffic travelling in 17 cars was known to have journeyed to headquarters since the last report. The precession crowd in June numbers of 1957 visitors travelling in 47 cars, as compared with 51 visitors travelling in 161 cars for the same period of previous travel last year.

§20 - General weather conditions

§21 - In the park

Temperature: Mainly warm, 72.9°. is 1.9° above normal. Generally mild temperatures prevailed throughout the month, though a few days of moderately cold weather at the beginning of the second week. No severe winter conditions occurred. The highest temperature was 90° on the 28th; lowest -3° on the 7th.

Precipitation: Total, 0.56 inch, is 0.92 inches below normal. Light rain prevailed at frequent intervals. The greatest 24-hour precipitation was .40 inch, mainly rain, on the 20-21st.

Humidity: Total 5.7 inches; normal 4.4 inches. The greatest depth of dew on the ground was 7.4 inches on the 1st; at the end of the month dews were 0.3 inches of frozen dew, slightly treated.

Wind: Average hourly velocity was 10.4 miles; normal 8.1 miles. The usually light wind movement of the first half of the month was followed by a week of strong velocities. The highest being 35 miles per hour from the northwest on the 21st.

Sunshine: Percentage of possible 60: normal 54. Number of days clear 5, partly cloudy 7, cloudy 18, with .01 inch or more precipitation 12.

Here ends the climatical summary.

Park usage: Park usage statistics for park also comparative figures for 1958 and 1957 are noted as follows:

| Station | Indian 1959 | Indian 1958 | Indian 1957 |
|---|---|---|---|
| Artist Point | 18 | 15 | 17 |
| Two Mile Point | 18 | 14 | 16 |
| Cross City Drive | 37 | 26 | 28 |
| Tower Falls | 13 | 10 | 13 |
| Old Faithful | 42 | 33 | 34 |
| Lake | 34 | 37 | 34 |
| Shoshone | 38 | 35 | 38 |
| Bridge Bay | 17 | 8 | 18 |
| Berry | 40 | 0 | 36 |
| Canyon | 49 | 42 | 34 |

Snow Depths (Continued):

| Station | Inches 1925 | Inches 1926 | Inches 1927 |
|---|---|---|---|
| Thumb | 40 | 36 | 45 |
| Riverside | 40 | 24 | 50 |
| Gallatin | 31 | 26 | 24 |
| Sylvan Pass | 41 | 30 | 55 |
| Snake River | 67 | 49 | 75 |
| Bechler River | 80 | 75 | 107 |
| Upper Slough Creek Station | 34 | 42 | 36 |

Snow depths at other points are indicated as follows:

Buffalo Divide 65 inches, Cottonwood Basin 42 inches, Crevice Mountain 44 inches, Park Point 34 inches, Cabin Creek 38 inches, Thorofare 60 inches, Fox Creek Divide 96 inches, Aster Creek 108 inches, Seven Mile Post north of Snake River 144 inches, Harebell Cabin 70 inches and Heart Lake Cabin 72 inches. Snow depths along the west side are noted as following: Boundary Creek 108 inches, Buffalo Lake 118 inches, South Riverside Cabin 102 inches and West Yellowstone District 50 inches. There is 64 inches on the Norris-Canyon Divide. Temperatures have been comparatively mild throughout the month.

540 - Special Visitors

Mr. D. E. Pettis, State Game Warden of Arizona, was a visitor at Park headquarters early in the month. He arrived via Butte and Livingston on the 2nd and departed via Livingston and Billings on the 7th. He was keenly interested in the wild life activities in the Mammoth District and was an interested observer of the Mammoth Hot Springs formations. The primary purpose of his visit was to receive and accompany a carload of elk consigned to his address in Arizona. He assisted with their capture and delivery to the carrier and enjoyed the experience immensely. He left here with a fine spirit of enthusiasm for Yellowstone Park.

900 - Miscellaneous

Hospital and Medical Service: Dr. Richard R. Brady, the Resident Physician, reports 24 office calls and 21 house calls during February.

Post Office: Nothing unusual to report for February.

Church Services: Religious services were held in the Park during February, at Mammoth Hot Springs, in the lodge room, as follows: English Lutheran by Rev. Webster H. Clement on Tuesday evening, February 1; Episcopal by Rev. John F. Como on Sunday evening, February 6th, and on Sunday morning, February 20th; Methodist by Rev. Otto G. Ponath on Wednesday evening, Feb. 23rd.

The small room in the Amusement Hall known as "The Lodge Room" was thoroughly renovated and put in splendid condition during the month of February; and is now a very suitable room for church and other small community gatherings.

Some depths (Continued):

| Station | Inches 1957 | Inches 1958 | Inches 1957 |
|---|---|---|---|
| Chase | 45 | 18 | 45 |
| Riverside | 40 | 24 | 40 |
| Halstein | 31 | 20 | 24 |
| Upper Pass | 41 | 32 | 32 |
| Canoe River | 57 | 13 | 17 |
| Smoular River | 65 | 17 | 107 |
| Upper Stump Creek Station | 34 | 42 | 36 |

Snow depths at other points are indicated as follows:

Suffolk divide 69 inches, Cottonwood Basin 62 inches, Drewlo Mountain 44 inches, Pine Pole 53 inches, Basin Creek 33 inches, Dewdrop 60 inches, Pine Creek divide 56 inches, Lower Creek 109 inches, Seven Mile Pass north of Canoe River 144 inches, Kamsell Basin 70 inches and Upper Cow Basin 73 inches. Snow depths along the west side are noted as follows: Summary Creek 108 inches, Suffolk Lake 118 inches, Fraser Riverside Basin 102 inches and West Twin Creek District 90 inches. Snow is 64 inches on the Upper Canyon divide. Temperatures have been comparatively mild throughout the month.

500 - Special visitors

Mr. G. H. Pettis, State Game Warden of Idaho, and a visitor at Yard Headquarters early in the month. He arrived via Burns and Kingsmen on the 3rd and departed via Livingston and Elkhorn on the 7th. He was keenly interested in the wild life activities in the Kootenay District and was an interested observer of the Ranger's Dog Training Programme. The primary purpose of his visit was to receive the commission of a Ranger and pledge to his duties in Lakes. He enjoyed with their company and hatchery in the country and enjoyed the experience immensely. He left here with a clear spirit of co-operation for fellowcome fees.

500 - Miscellaneous

Hospital and Medical Service: Dr. Richard R. Craig, our Resident Physician, reports 24 office calls and 03 house calls during February.

Post Office: Nothing unusual to report for February.

Canoe Services: Helicopter services were held in the Park during February, at Kootenay Lake Hydroelectric, in the Lake Area, as follows: Daylight Inspection by Ser. Ranger R. Clement on Tuesday evening, February 1; physical by Ser. John F. Cope on Sunday evening, February 5th; and on Sunday morning, February 8th; Archivist by Ser. Otto S. Wright on Thursday evening, Feb. 9th.

The small room in the arc event hall known as "The Lodge Room" was thoroughly renovated and put in splendid condition during the month of February and is now a very suitable room for dances and other small community gatherings.

Izaak Walton League: The local chapter held one business meeting during the month, namely on the evening of February 8th. Good interest was manifested, and renewal of memberships is reported as coming in satisfactorily. The meeting was unusually well attended and considerable interest was manifested in the business transacted. Pleasing results were announced in connection with the campaign for new members and membership renewals and it was stated that there is now a paid up membership of 49. It is believed that most delinquents will renew and that we will have a total membership of approximately 90. Mr. Ernest Miller of the Elk Horn Ranch and Mr. J. T. Gratiot of Dubois, Wyo., will probably be named as delegate and alternate to the National Convention in Chicago. The next regular meeting will be held on March 8th.

On February 26th a dance, sponsored by the Mammoth Community, was held in the Post Canteen. This dance was attended by practically all of the Mammoth residents and a very enjoyable evening was had by every one. There has been a number of social functions among the ladies of the community during the month and a very friendly spirit has existed among the people of the community.

Cordially yours,

LEROY HILL
Acting Superintendent.

The Director,
National Park Service,
Dept. of the Interior,
Washington, D.C.

ASM

Lyman Patton lawyer the local chapter held one business meeting during the month, mainly on the evening of February 6th. Good interest was manifested, and renewal of membership is reported as coming in satisfactorily. The meeting was unusually well attended and special interest was manifested in the conference program. Planning committees were numerous in connection with the campaign for new members and encouraging reports are made that there is now a good go membership, at 47. It is believed that most delinquents will renew and that we will have a total membership of approximately 50. Mr. Lamont Miller of the Bit Horn Press and Mr. L. L. Stewart of Decorah, Iowa, will probably be asked to delegate and alternate to the National Convention in Chicago. The next regular meeting will be held in March 6th.

On February 20th a dance, sponsored by the Decorah Community, was held in the Fire Station. This dance was attended by practically all of the Decorah residents and a very enjoyable evening was had by every one. There was some a number of social functions among the ladies of the community during the month and a very friendly spirit was evinced among the people of the community.

Cordially yours,

Lyman Patton
Acting Superintendent.

The Director,
National Park Service,
Dept. of the Interior,
Washington, D.C.

LP

10-157

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

# TRAVEL REPORT

YELLOWSTONE National Park for the Month of FEBRUARY

| | This Month | This Travel Year To Date | This Month Last Year | Last Travel Year To Date | Increase for Travel Year | |
|---|---|---|---|---|---|---|
| | | | | | Number | Percent |
| PRIVATE TRANSPORTATION: | | | | | | |
| Cars first entry | 15 | 479 | | 164 | 315 | 192 |
| Cars reentry | | | | | | |
| Motorcycles | | | | | | |
| Total motor vehicles | 15 | 479 | | 164 | 315 | 192 |
| Persons entering via motor vehicles | 32 | 1299 | | 514 | 785 | 153 |
| Persons entering via other private transportation | | | | | | |
| Total persons entering via private transportation | 32 | 1299 | | 514 | 785 | 153 |
| OTHER TRANSPORTATION: | | | | | | |
| Persons entering via stages | | | | | | |
| Persons entering via trains | | | | | | |
| Persons entering otherwise | | | | | | |
| Total other transportation | | | | | | |
| GRAND TOTAL ALL VISITORS | 32 | 1299 | | 514 | 785 | 153 |

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

# TRAVEL REPORT

YELLOWSTONE National Park for the Month of JANUARY

| | This Month | This Travel Year To Date | This Month Last Year | Last Travel Year To Date | Increase or Decrease Number | Percent |
|---|---|---|---|---|---|---|
| **PRIVATE TRANSPORTATION.** | | | | | | |
| Cars first entry | 15 | 479 | | 164 | 315 | 192 |
| Cars reentry | | | | | | |
| Motorcycles | | | | | | |
| Total motor vehicles | 15 | 479 | | 164 | 315 | 192 |
| Persons entering via motor vehicles | 32 | 1299 | | 514 | 785 | 153 |
| Persons entering via other private transportation | | | | | | |
| Total persons entering via private transportation | 32 | 1299 | | 514 | 785 | 153 |
| **OTHER TRANSPORTATION.** | | | | | | |
| Persons entering via stages | | | | | | |
| Persons entering via trains | | | | | | |
| Persons entering otherwise | | | | | | |
| Total other transportation | | | | | | |
| **GRAND TOTAL ALL VISITORS** | 32 | 1299 | | 514 | 785 | 153 |

| | This Year | Last Year | Increase or Decrease Number | Percent |
|---|---|---|---|---|
| Accommodations in public camps during month | | | | |
| Campers in public camps during month | | | | |

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

# STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of FEBRUARY 1927

| | This Month | This Month Last Year |
|---|---|---|
| Number of employees beginning of month, | 63 | 64 |
| Number of additions, . . . . . | 0 | 2 |
| Total, . . . . . | 63 | 66 |
| Number of separations, . . . . . | 0 | 0 |
| Number of employees close of month,. . | 63 | 66 |
| Number of promotions during month | 0 | 0 |
| Aggregate amount of annual leave taken, | 83½ | 96½ |
| Aggregate amount of sick leave taken, | 8 | 5 |
| Aggregate amount of leave without pay, | 0 | 0 |

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

# STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of FEBRUARY 1937

| | This Month | This Month Last Year |
|---|---|---|
| Number of employees beginning of month | 63 | 64 |
| Number of additions | 0 | 2 |
| Total | 63 | 66 |
| Number of separations | 0 | 0 |
| Number of employees close of month | 63 | 66 |

| | | |
|---|---|---|
| Number of promotions during month | 0 | 0 |

| | | |
|---|---|---|
| Aggregate amount of annual leave taken | 83½ | 96½ |
| Aggregate amount of sick leave taken | 8 | 5 |
| Aggregate amount of leave without pay | 0 | 0 |

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE National Park for the Month of FEBRUARY 1927

| | This Month | This Travel Year To Date | This Month Last Year | Last Travel Year To Date | Increase for Travel Year Number | Increase for Travel Year Percent |
|---|---|---|---|---|---|---|
| Current generated, . . . . . | 44090.0 | 496890.0 | 48810.0 | 471090.0 | 25800. | .05 |
| Sold to park operators, . . . | 199.8 | 79605.9 | 317.3 | 74691.3 | 4914.6 | .06 |
| Sold to others, . . . . . | | | | | | |
| Furnished to other Governmental agencies, . . . . . | | | | | | |
| Used by National Park Service, lost in transit, etc., . . . | 43890.2 | 417284.1 | 48492.7 | 396398.7 | 20885.4 | .05 |
| Total current generated, . . | 44090.0 | 496890.0 | 48810.0 | 471090.0 | 25800.0 | .05 |

Amount receivable from the sale of electricity, . . . . . $ 9.99

* Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC

YELLOWSTONE ..... National Park for the Month of JANUARY 1927

| | This Month | This Year To Date | This Month Last Year | Last Year To Date | Increase for Travel Year Number | Increase for Travel Year Percent |
|---|---|---|---|---|---|---|
| urrent generated, . . . . . | 44090.0 | 495890.0 | 48810.0 | 471090.0 | 25800. | .05 |
| old to park operators, . . . | 199.8 | 79605.9 | 317.3 | 74691.3 | 4914.6 | .06 |
| old to others, . . . . . | | | | | | |
| urnished to other Governmental agencies, . . . . . | | | | | | |
| sed by National Park Service, lost in transit, etc., . . . | 43890.2 | 417284.1 | 48492.7 | 396398.7 | 20885.4 | .05 |
| Total current generated, . . | 44090.0 | 495890.0 | 48810.0 | 471090.0 | 25800.0 | .05 |

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mount receivable from the sale of electricity, . . . . . $ 9.99

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Indicated by K. W. H.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of FEBRUARY 1927

| | This Month | This Month Last Year | Increase | Percent Increase |
|---|---|---|---|---|
| LOCAL BUSINESS | | | | |
| Miles of circuit maintained, | 391 | 363 | 28 | .02 |
| No. of telephones connected, | 141 | 132 | 9 | .06 |
| No. of measured service calls, | | | | |
| No. of other local calls, | | | | |
| Total No. of local calls, | 5397 | 4819 | 578 | 12 |
| Peak load in calls per day, | 303 | 262 | 41 | 15 |
| Receipts from measured service calls, | | | | |
| " " coin boxes, | | | | |
| " " telephone rental, | | | | |
| TOTAL RECEIPTS | | | | |
| LONG DISTANCE BUSINESS | | | | |
| No. Outbound calls, | 39 | 68 | -29 | -42 |
| No. Inbound calls, | 46 | 85 | -39 | -45 |
| TOTAL LONG DISTANCE CALLS | | | | |
| Peak load in calls per day, | 6 | 8 | -2 | -25 |
| Receipts from Long Distance business, | $39.67 | $21.71 | | |
| (All of this revenue accrues to the Mountain States Telephone & Telegraph Co.) | | | | |
| TELEGRAPH BUSINESS | | | | |
| Messages via Western Union, | | | | |
| Messages via | | | | |
| TOTAL MESSAGES | | | | |
| Receipts from telegraph business, | | | | |
| No. of money transfer messages, | | | | |
| " " " " receipts, | | | | |
| TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS- | | | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of FEBRUARY 1927

| | This Month | This Month Last Year | Increase | Percent Increase |
|---|---|---|---|---|
| **CAL BUSINESS** | | | | |
| les of circuit maintained. | 391 | 363 | 28 | .02 |
| of telephones connected. | 141 | 132 | 9 | .06 |
| of measured service calls. | | | | |
| of other local calls. | | | | |
| tal No. of local calls. | 5397 | 4819 | 578 | 12 |
| ak load in calls per day. | 303 | 262 | 41 | 15 |
| ceipts from measured service calls. | | | | |
| " " coin boxes. | | | | |
| " " telephone rental. | | | | |
| TOTAL RECEIPTS | | | | |
| **NG DISTANCE BUSINESS** | | | | |
| Outbound calls. | 39 | 68 | -29 | -42 |
| Inbound calls. | 46 | 85 | -39 | -45 |
| TOTAL LONG DISTANCE CALLS | | | | |
| ak load in calls per day. | 6 | 8 | -2 | -25 |
| ceipts from Long Distance business. $39.67 | | | | |
| ll of this revenue accrues to the Mountain States Telephone & Telegraph Co.) | | | | |
| **LEGRAPH BUSINESS** | | | | |
| sages via Western Union. | | | | |
| sages via | | | | |
| TOTAL MESSAGES | | | | |
| ceipts from telegraph business. | | | | |
| of money transfer messages. | | | | |
| " " " receipts. | | | | |
| TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS- | | | | |

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

# REPORT OF PARK REVENUES

YELLOWSTONE National Park for the Month of FEBRUARY 1927

| | This Year | Last Year |
|---|---|---|
| Park revenue on hand beginning of month, | 0 | 0 |
| Received, | 3,743.53 | 424.88 |
| Total, | 3,743.53 | 424.88 |
| Remitted, | 3,743.53 | 424.88 |
| On hand close of month, | 0 | 0 |

| | |
|---|---|
| Park revenues received this year to date, | $ 216,161.23 |
| Park revenues received last year to date, | 338,604.38 |
| ~~Increase~~ Decrease | 122,443.15 |
| Percent of ~~increase~~ decrease | 36 |