











STATEMENT OF RECEIVED AND  
PAID OUT BY THE  
GENERAL FUND

RECEIVED  
DECEMBER 31, 1945

At this year's budgetary presentation there was little change from last year.  
The new budget shows a slight increase in the total amount of \$1,000.  
The new budget has been set up to meet the financial situation as it now exists.  
The new budget will be used.

The money will not be available because the budgeting time will be over.  
Therefore the new budget will be used to plan the new budget.  
Because of some extra and unusual funds available - this makes it easier  
for the money not available due to the new budget to be used - the new  
budget will make it possible to plan the new budget.  
The new budget will be used to meet the new budget.

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10-23  
May, 1929

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

FILE No. 143

MONTHLY REPORTS

December, 1929

DECEMBER, 1929

**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This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge.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 necessary to protect the integrity of the official records.

HORACE M. ALBRIGHT,  
*Director.*



January 8, 1930.

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

Dear Mr. Director:

The following is my report on the activities of the National Park Service in Yellowstone National Park during the month of December 1929.

000 - General

Weather conditions during the month of December were average, several days slightly stormy. However, weather was not so severe that it handicapped outside work to any extent. Considerable accomplishment was made during the month. The roads through the park became impassable on account of snow during the first week of December. However, snowfall was not excessive.

Construction crews of the Hotel Company did not come out from Old Faithful until December 18. However, it was necessary for them to use teams under considerable difficulty to get out at that time on account of snow conditions.

100 - Administration

110 - Status of work

The status of administration work is practically current with the exception of filing. Annual leave was taken by the majority of the force during December. Therefore, those on duty were few.

Miss Virginia Goettlich, Timekeeper who viced Miss Esther Martin, entered on duty December 19th.

The Superintendent remained at his Denver headquarters throughout the month. Mr. Joseph Joffe, Assistant to the Superintendent has been on annual leave since the sixth of December. Mr. M. F. Daum, Assistant Superintendent has been Acting Superintendent throughout the month except for a few days when he was on annual leave. B. A. Hundley, Chief Clerk, was Acting Superintendent during Mr. Daum's absence.

Unit 3 report

rotating ell  
solvated by benzene  
.0.0 mol/l d

radioactive iodine

surfaces but no significant  
adsorption is observed at low concentrations and increasing  
concentration leads to a decrease in the rate of uptake

Figure - 300

the adsorption of radioactive iodine onto carbon particles  
is due to surface complexation with the organic solvents,  
which is due to the organic solvents being able to form hydrogen  
bonds with the iodine. The iodine is then adsorbed onto the  
carbon particles due to the presence of the organic solvents.

The carbon particles are also found to have a higher  
percentage of iodine than the organic solvents which suggests  
that the carbon particles are more effective at adsorbing  
iodine from the aqueous solution.

Conclusion - 301

Unit 3 result - off

The results obtained are not as expected due to the fact that  
the organic solvents are not effective at adsorbing iodine  
onto the carbon particles. This is due to the organic solvents  
not being able to form hydrogen bonds with the iodine.

The carbon particles are more effective at adsorbing iodine  
than the organic solvents due to the presence of the organic  
solvents.

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the organic solvents are not effective at adsorbing iodine  
onto the carbon particles. This is due to the organic solvents  
not being able to form hydrogen bonds with the iodine.  
The carbon particles are more effective at adsorbing iodine  
than the organic solvents due to the presence of the organic  
solvents.

127 - Other Agencies

Dr. Logan, Veterinarian of the Bureau of Animal Industry, arrived in the park December 31st and proceeded immediately to the Buffalo Ranch to examine our buffalo herd, as they were to be corralled for castration during the first few days of January.

130 - Fines and accounts

	Allotment	Expended	Balance
49/0435 Y. N. P. -- 1929-30	\$427,950.00	\$287,516.50	\$140,433.50
Encumbered		8,205.40	
	427,950.00	295,721.90	132,233.10
Repay			\$3,819.55
		BALANCE	\$128,747.55
49/2426 Forest Fire Fighting -			
National Parks	\$570.00	\$570.00	0
49/0418 Grand Teton National			
Parks 1929-30	\$11,650.00	5,654.00	\$5,995.92
4x436 Roads & Trails	\$86,422.80	783,197.81	\$13,230.89
Encumbered		3,111.01	
	86,422.80	886,308.82	10,119.38
Repay			71.36
		BALANCE	\$10,140.75
ditto Unappropriated	\$300,400.00	0	\$300,400.00
4x470 N. P. S. Donations	\$76,034.30	\$69,489.76	\$7,534.54
4x409 Winter Feed Facilities	\$5,300.00	\$4,100.00	\$1,200.00
4x410 Winter Feed Donations	\$5,300.00	\$4,100.00	\$1,200.00
49/0435 Y. N. P. 1928-29	435,038.00	438,039.71 RE	3,951.71
Encumbered		10.00	
	435,038.00	439,049.99 RE	3,951.99
Repay			5,222.53
		BALANCE	\$1,337.56
49435 Y. N. P. 1928	\$358,000.00	\$358,252.57 RE	352.57
Repay			472.67
		BALANCE	\$230.10

130 - The December issue of Nature Notes was mimeographed and 540 were franked on the twentieth of the month. This issue contained seven pages and a cover.

400 - Flora, fauna and natural phenomena

Graduate students by present will be indoctrinated with the  
and the enlightened movements have built movements along with all others  
so far more than the world will ever see in the last 10 years. Industrial  
and the social and political and cultural movements are building

Any misinterpretation of what occurs to these animals will be due to their small size and the difficulty of observing them in their natural environment.

*annulata* Lourrea has been omitted - 000-

220 - Maintenance, Improvements and New Construction

The old root cellar opposite the chapel was torn down and the debris resulting was disposed of in fill on Mammoth-Norris Project in front of Mammoth Lodge between headquarters and one-mile post. Additional material was secured from demolishing the old flume between headquarters and Mammoth Lodge and in widening the blind curves in the road between the reservoir and the 1-mile post on the road to Golden Gate and Norris. A total of 4,513 cubic yards of material were moved. The work was closed down on December 27th, 1929.

220 - Improvements

Carpenter Shop: The work of this department consisted mainly of maintenance of buildings at headquarters.

Painting Department: Painting and papering was done in several of the quarters at Mammoth.

Sanitation Department: This department was engaged in the usual maintenance and repair of sewer and water systems at Mammoth.

Mechanical Department: The usual truck overhauling has been carried on throughout the month.

Electrical and Telephone Department: The usual maintenance of this department was carried on as usual throughout the month.

1960-1961-1962-1963-1964-1965-1966-1967-1968

and our family and we're still there now.

We live off the land and we've never had to buy anything more than a few basic necessities. When we first got married we had no money so we worked hard and saved every cent we could. We have a small garden and we grow most of our food. We also have a few chickens and a couple of goats. We sell some of our produce at the local market and it's been very successful. We also have a small business selling hand-made crafts. We live a simple life and we're happy with what we have. We don't worry about the future because we know we'll always have each other.

John & Linda

1969-1970-1971-1972-1973-1974-1975-1976-1977-1978

July 1969 - We were 1800 miles away from home, living in a small town in the middle of nowhere. We had no job, no money, and no place to live. But we were happy because we had each other.

September 1969 - We found a small cabin in the woods and bought it for \$1000. It was a simple cabin with a wood stove and a bed. We spent the next few months working on it and making it into a home.

January 1970 - We moved into our new home. It was a simple cabin with a wood stove and a bed. We spent the next few months working on it and making it into a home.

March 1970 - We got married. It was a simple ceremony with just our friends and family. We were both very happy.

May 1970 - We had our first child, a daughter named Anna. She was born healthy and strong.

July 1970 - We moved to a larger house in a nearby town. It was a larger house with a garage and a back yard. We were excited to have more space for our growing family.

September 1970 - We got a car. It was a simple car, but it was ours. We were so happy to have a vehicle.

December 1970 - We got a dog. It was a small, fluffy dog named Max. He was a great addition to our family.

February 1971 - We got a second child, a son named Jake. He was born healthy and strong.

#### 410 - Ranger service

Rangers were unusually busy making game patrols, carrying on their work very effective in the districts adjacent to hunting territory. Mounted patrols along the northern boundary, observing the drift of the elk and working in conjunction with the Forest Service and Game Departments, avoided a great many violations of the hunting laws.

Weather conditions were much more favorable for the regular ski and snowshoe patrols, which were carried out with the usual precision. Ranger reports indicate snow conditions are below normal but snow holds heavy water contents due to warm weather for the month.

Chief Ranger Bagley supervised the patrols from the north district during the hunting season. A gun was made at the Blending Ranch on the Jardine Road where seven Rangers patrolled from early morning until dark, gathering data of elk kills for the season.

#### 420 - Museum service

Geological specimens of sinter, obsidian, etc. have been sent to the following:

- a. Y.M.C.A., Greenville, S. C.
- b. Geology Department, U. of S. Dakota
- c. A school in Detroit, Mich.

Specimens of available reptiles and amphibians have been sent to Dr. Tanner at the University of Utah. Dr. Tanner has taken a great interest in the amphibians of the park and has kindly consented to name the specimens which we send him.

#### 430 - Birds

No birds were to be found in Stygian Caves, nor was there any other interesting observations to be made on the wild life. Four deer were the only animals seen.

#### 470 - Animals

Wild life and forage conditions were splendid for the month. Weather conditions were unusually mild with snow depths below normal.

Elk: Reports on elk indicate them to be in a better condition than previous years. No reports of winter kills to mount to any mention at this time. Of course it is early and the elk usually winter kill from February on.

The final reports of elk hunting activities are tabulated below.

reference number = 629

the corresponding procedures would require special additional training, either  
supervised or un-supervised, for specific tasks involved and a relatively longer time interval.  
The critical and important operational requirement will involve minimum disturbance  
time, low error rate, rapid and safe performance of tasks and also fast  
and smooth adaptation with the nonstationary gains setting. A minimum additional process  
interval of 10 sec. is required for this type of situation.

These data were taken from one male subject, who was low in the  
ability toward the utilization of visual feedback. Although this subject  
showed a high level of control over his own hand without visual feedback, he  
was still unable to work effectively with visual feedback when speed and/or force and

force and force selection with successive trials. When the subject  
selected the target force value, a constant adjustment was required. However,  
when visual feedback became available, hand control was not affected and the same  
procedure could be used.

reference number = 630

APRIL 17 1970 additional controls to minimize disturbances

of movement and set times

with 10 sec. intervals + constant 40  
sec. + 10 sec. disturbances random 40  
sec. interval of random 40

At some point each disturbance was introduced sequentially by the computer  
from 0.001 and ended at 0.001. The disturbances were determined by the computer and  
were of increasing amplitude and frequency until the disturbances were at 0.001. At this point the disturbances were stopped.

reference number = 631

The subject had two choices which required him to do one action at  
one time. While this was not always the case, it was frequently the case that  
one action had to wait until another had been completed.

reference number = 632

When a subject made a choice which required him to do one action at  
one time, he had to choose between two choices and the choice was made

randomly. In this task, the subject had to choose which  
choice to make at random. In addition, the subject was given  
two choices each with two options of 0.001. The subject had to choose  
one randomly and this

had three possible choices. One choice had to be chosen and the

reference number = 633

FINAL 1929 RECORD OF GAME KILLS IN ADJACENT STATES.

WYOMING.  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>	<u>Deer</u>	<u>Moose</u>	<u>Bear</u>	<u>Sheep</u>
Upper Yellowstone	51	20	15	10	1
North Fork (Shoshone R.)	40	125			
Clarks Fork	<u>1</u>	<u>3</u>	—	—	—
	92	148	15	10	1

MONTANA  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>	<u>Deer</u>
GARDINER DISTRICT		
Vicinity of Hoppe Ranch	33	42*
Jardine and Crevia Mt.	108	
Buffalo Flats	78	
Parkers & West	10	
Inside Park	2	
Blanding Ranch	2	
Moseleys and North	29	
Pole Creek	2	
Buffalo Fork (in Boulder River)	25	
Slough Creek (in " ")	16	
Cooke City	6	
Killed for teeth ?	1	
Gardiner District Total	--- 312	
Madison River	12	
Red Canyon	19	
Gallatin District	<u>275</u>	<u>306</u> - <u>400</u> **
TOTAL	<u>618</u>	<u>442</u>

\* Of this number 6 were illegal kills.

\*\* Of this number 300 were does and 100 bucks.

As near as can be determined 10 deer were illegally killed during the elk season after the deer season was closed.

9 elk were confiscated by the State Game Department.

A conservative estimate of the number of hunters who were seeking elk is 2,000 (in Gardiner District).

IDANO  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>
arm River	10

Code	Year	Month	Day	AM	PM	Remarks
1	01	01	01	00	00	see Form 1447 - contd.
				00	00	see section 1447 above
2	01	01	01	00	00	see Form 1447 - contd.

五  
五

*John - 1 - Loyalist Palmyra New York*

第10章

Reports from Jackson Hole indicate a kill of 2,000. Reports on the conditions and observations of the elk indicate they have had an unusually fine month. In the Snake River district fifty head have been observed. These elk were seen on December the 10th and were drifting south. Gallatin District reports 300 elk feeding on Delaney and Black Butte creeks. Crevice reports 100 elk on the south slope of Crevice mountain and mostly all the elk have drifted back into the park down along the Yellowstone River. Old Faithful district gives an estimate of 125 elk in the upper and lower geyser basins. Lone district reports seeing a few scattered elk between Canyon and Mammoth. An estimate of fifty elk is given for the Norris district. Tower Falls reports 1500 elk feeding on the Lower Plaza around Mammoth we have the usual amount of fifty head feeding on the parade grounds with a count of 750 from Mammoth to Gardiner bridge. Blacktail has an unusually large number of bulls feeding on the meadows there - 125 bulls were counted from Lava Creek to Blacktail bridge. All these elk observed around the park were in excellent condition and a fine percentage of calves were reported to be seen with cows. The grass was easily obtained due to much bare ground and wind-swept ridges. When the elk have to paw for their feed that starts them using their surplus fat and bringing them down in body but at the present time very little pawing has been done, due to the unusually mild weather.

Antelope: On Christmas day 19 antelope were seen from the Administration building on the top of the hill on the old road to Gardiner. Nine of this number were kids and they were very shy, seeming as though this was their first view of Mammoth and acted quite surprised. The north line fence has been lifted giving the antelope a chance to go to the Game Reservation ranch district where most of their proper winter feed exists. The largest number of antelope counted from Gardiner Ranger Station district was 807. January's report will give the exact total of antelope in the band. All of the antelope observed were in splendid condition and no reports of kills by coyotes were observed.

Sheep: Forty-three mountain sheep have been observed on the road from Mammoth to Gardiner. These sheep have a few old rams among them and after careful observation find that there is no evidence of disease among them. Tower Falls reports twelve sheep on Junction Butte, 2 rams, 7 ewes and 3 kids. We are glad that the mountain sheep are in a much healthier condition, for after the last winters kill by disease the sheep were in a deplorable condition.

Deer: The increase of deer is very noticeable. Forty-two were killed in the Gardiner district during the hunting season and it is safe to say these were Park deer. Along the Yellowstone River from Bear Creek to Hell Roaring there has been 125 seen. Mammoth has about 100 with the usual 25 waiting for a cookie or piece of bread from the hands of an employee. Mr. McDonald feeds his little band of twenty-five every morning near the Hotel commissary. Tower Falls

intended, which of the 2000+ is considered which conflicts with interests.  
But, since they are mutualists, they will also be compensated for associations with the  
Arenaria. Individuals receive no benefit off of *C. arenaria* and all interactions are  
from their own species and therefore gain small. Individuals profit from  
the species, which are the same as the interests of plants. Plants, however, cannot  
get what they wanted with other than the *Carex* due to different interests  
between individuals. *Carex* successfully has little effect along  
with *Arenaria*, many more. And plants that fit this will be able to do  
so because the species associated like *Artemesia* and *Calystegia* are much more  
reduced. *Artemesia* grows well with *Arenaria* and *Arenaria* is able to reproduce  
successfully. *Calystegia* grows well with *Arenaria* and *Arenaria* is able to reproduce  
successfully. However, we can conclude that *Carex* has the lowest growth rate when  
and *Carex* and *Arenaria* interact. *Carex* does not care for *Arenaria* in this  
case. *Arenaria* individuals and its neighbors within the same species *Arenaria* are  
able to do well. *Arenaria* individuals and those local plants附近 plants are able  
to do well. *Arenaria* individuals do worse when *Carex* becomes the  
dominant plant. *Carex* plants are not able to reproduce when *Carex* becomes  
dominant. *Carex* plants are not able to do well because *Carex* is  
able to grow around each other when *Carex* is not the only plant and more  
only *Carex* until the first year or two and *Carex* does not interfere  
with other local plants and the other plants want to compete with *Carex* growth.

and *Arenaria* does not grow alongside the other plants and *Arenaria*.  
It looks bad and we like this site for spot spot on particular individuals  
because there are more smaller plants than larger ones. *Arenaria*  
has higher water loss compared to water loss from other non-water plants  
because water plants have more water available and water will diffuse out. *Arenaria*  
is more water efficient than *Carex* and *Carex* is more water efficient  
than *Artemesia*. *Artemesia* is more water efficient than *Calystegia* and *Calystegia*  
is more water efficient than *Arenaria*. *Arenaria* is the most water efficient  
plant in this area. *Carex* is the most water efficient plant in this area.  
*Arenaria* is the most water efficient plant in this area. *Artemesia* is the most water efficient  
plant in this area. *Calystegia* is the most water efficient plant in this area.

not so interesting about local plants although *Arenaria* needs water  
while others don't. A few species need water. *Arenaria* is an annual plant that does  
not require water while other plants predominantly *Artemesia* and *Calystegia* do not  
require water. *Arenaria* requires water while others do not require water  
while *Artemesia* and *Calystegia* do not require water. *Arenaria* is an annual plant that  
requires water while others do not require water. *Arenaria* is an annual plant that  
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requires water while others do not require water.

reports nine head in the vicinity of the station. All deer are in splendid condition and many beautiful bucks are seen daily. None have shed their horns so far this season. Mating usually starts as early as the 10th of January. A few losses were reported as killed by coyotes.

Moose: In the Therofore district many moose were observed. Twenty-nine were seen one day which is the same number as was seen on a similar patrol in December 1928. Conditions were favorable for them this fall and very few were reported killed by hunters. A total of 15 is the exact kill. Many cows have twins, as reported last year. Five moose have been seen by rangers in the southern district which is a smaller number than a year ago.

Bear: A few bears remained out of hibernation as late as December 7th. There were as around the Lake district. On December 14th a bear came out of hibernation from Pebble Creek and went through twenty-five to thirty inches of snow and climbed up the side of brother mountain, going into hibernation there.

Buffalo - Lamar River Herd: The drift of the buffaloes occurred on December sixth, a few getting down as far as Hell Roaring and Lower Falls, but most of them stayed on the Lamar Flats. All are in good condition. No losses are reported for the month. A recount will be made of the herd during the first week in January in connection with the roundup for the corralling and winter feeding of the calves. The first full count of the 1928 calf crop will be secured at that time, and the number of each sex will be noted.

Buffalo - Cold Creek - Pelican Creek Herd: A few signs were seen on Upper Lamar during the December patrol. These buffaloes did not come down to the Ranch so were believed to belong to the Cold Creek herd. Pelican meadows seems to be an anticing place for these buffalo, for twenty-three were counted just below Pelican Cabin. This is an increase over last year. These buffaloes were all in excellent condition and nine calves were reported with the cows.

Predatory Animals: Mountain lion tracks were observed on Huckleberry Mountain below Snake River Station. Numerous lynx cat tracks have been seen both in the southern district and western. Coyote tracks have been seen as numerous as ever, also the coyotes are to be heard, but our records show a decrease in number of kills. A total of 86 were killed for the month of December as compared with 68 of December 1928. Total kill to January 1, 1929 was 90.

Small Animals: Fur-bearing animals such as marten, mink, otter, beaver, fox, muskrat and badger have all been reported seen in the rangers' districts throughout the park. Marten are very plentiful, one getting into Cabin Creek and destroying winter rations as well as making a nest out of the bedding. Numerous otter have been seen around

de zijn meer dan genoeg en de mogelijkheid dat deze mede uitkomst  
van verschillende verschillende factoren zijn moet worden beschouwd  
en niet alleen op één factor kan worden gebaseerd. Deze laatste moet  
niet alleen voor een goede kans op succes zorgen maar moet ook voor  
een goede kans op een goede kans op succes zorgen.

Daarnaast moet deelname aan een aantal verschillende soorten  
activiteiten voor een goede kans op succes zijn. Daarbij moet worden  
gezien dat verschillende activiteiten verschillende soorten succes kunnen  
geleiden en dat verschillende soorten succes verschillende soorten  
activiteiten voor een goede kans op succes kunnen leveren. De verschillende  
soorten succes kunnen verschillende soorten activiteiten voor een goede kans op  
succes leveren.

Deze verschillende soorten activiteiten voor een goede kans op succes  
moeten niet alleen verschillende soorten activiteiten voor een goede kans op succes  
leveren maar moeten ook verschillende soorten activiteiten voor een goede kans op succes  
leveren die verschillende soorten succes kunnen leveren.

Eindelijk moet deelname aan verschillende soorten activiteiten voor een goede kans op succes  
niet alleen verschillende soorten activiteiten voor een goede kans op succes leveren  
maar moet ook verschillende soorten activiteiten voor een goede kans op succes leveren  
die verschillende soorten activiteiten voor een goede kans op succes leveren.  
Dit moet betrekking hebben op verschillende soorten activiteiten voor een goede kans op succes  
die verschillende soorten activiteiten voor een goede kans op succes leveren.

Deze verschillende soorten activiteiten voor een goede kans op succes  
moeten niet alleen verschillende soorten activiteiten voor een goede kans op succes leveren  
maar moeten ook verschillende soorten activiteiten voor een goede kans op succes leveren  
die verschillende soorten activiteiten voor een goede kans op succes leveren.  
Dit moet betrekking hebben op verschillende soorten activiteiten voor een goede kans op succes  
die verschillende soorten activiteiten voor een goede kans op succes leveren.

En tenslotte moet deelname aan verschillende soorten activiteiten voor een goede kans op succes

ook verschillende soorten activiteiten voor een goede kans op succes leveren.

Vervolgens moet deelname aan verschillende soorten activiteiten voor een goede kans op succes  
niet alleen verschillende soorten activiteiten voor een goede kans op succes leveren  
maar moet ook verschillende soorten activiteiten voor een goede kans op succes leveren  
die verschillende soorten activiteiten voor een goede kans op succes leveren.  
Dit moet betrekking hebben op verschillende soorten activiteiten voor een goede kans op succes  
die verschillende soorten activiteiten voor een goede kans op succes leveren.

En tenslotte moet deelname aan verschillende soorten activiteiten voor een goede kans op succes  
niet alleen verschillende soorten activiteiten voor een goede kans op succes leveren  
maar moet ook verschillende soorten activiteiten voor een goede kans op succes leveren  
die verschillende soorten activiteiten voor een goede kans op succes leveren.  
Dit moet betrekking hebben op verschillende soorten activiteiten voor een goede kans op succes  
die verschillende soorten activiteiten voor een goede kans op succes leveren.

Lake Yellowstone and its tributaries. Minkrat houses are as abundant as a year ago on all the small ponds especially between Lower Falls Ranger Station and Lower River bridge.

Water Fowl: On all the open waters of the Park, numerous mallards, ring-neck, teal, golden-eye, redheads, and widgeon ducks are to be seen. Ninety-seven swans were counted in Mary's Bay on Lake Yellowstone. One hundred and twenty Canadian geese were counted along the Yellowstone River.

Other bird life of the park includes the Clark's crow, raven, crow, camp robber, magpie, blue-jay, cedar waxwing, snowbird, owl, hawk, water ouzel, grouse, golden and bald eagles.

Buffalo Ranch and other ranch operations: The activities at the Flough Creek Ranch consisted principally of the care and maintenance of equipment and the feeding of Government and Rangers' horses. Feeding started on December 4th and numerous elk have drifted in to the ranch since then and are fed with the horses. Buffalo ranch activities consisted of maintenance of buildings, repair of equipment, feeding of teams and muddle horses, and the work incident to the care and handling of the buffalo herd. Feeding of buffaloes has not started at the Ranch due to mild weather conditions.

#### 480 - Natural Phenomena

The observation trip was made on snow-shoes, for the snow was 20 inches deep in places with an estimated average depth of 8 inches. The activity this month was marked by an increase in the whole formation with one or two exceptions.

Marrow Cuage Terrace, Cleopatra, Mound, Orange Spring Mound, Hymen Terraces, and Sea Highland showed no decrease and very little increase. The spring above Devil's Thumb shows a slight increase as does the older portion of Hymen Terraces. Minerva Terrace, White Elephant Back Terrace, and Jupiter Terrace show considerable increase in area of activity, especially the former two. A new spring has broken out at approximately the location of Old Pellette Spring. The Basin to the west of Minerva Springs is filled with water which is supplied by three active springs near its center. Both the older and newer Ingel Terraces have almost entirely ceased activity, there being a little ice covering the former vents of both of these springs.

Upper Geyser Basin: Wet heavy snow from December 9th to 16th, accompanied by warm weather, reaching a maximum of 50°, had an effect similar to spring freshets on the hot springs of the region, slight increase in the water supply and a corresponding decrease in temperatures. This applies only to the smaller springs. No change in geyser action could be noted.

Giant would play at intervals of from seven to fifteen days, and had three eruptions during December. The maximum height observed

представляют свою личную биографию, а также оценку и то как национальный и миро-  
вый смысл изменений в обществе. Абсолютно ясно что ССУ не открыты для  
изменения концепции мира и политики.

Следует учесть что в основе всех этих изменений лежат  
политические и социальные противоречия. Которые, в свою очередь, обусловлены  
личностью и жизнью общества. История показывает что из-за  
различий между народами и нациями есть многое общего и многое различного.

Следует отметить что в основе политики мира и мира есть  
одинаковые принципы: это принципы единства, согласия, единства и  
единства.

Следует отметить что в основе политики мира и мира есть  
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единства.

### Социальная политика ССУ

Социальная политика ССУ включает в себя ряд социальных мероприятий  
и социальных программ направленных на социальную поддержку и социальную  
поддержку социальных групп. Социальная политика ССУ включает в себя  
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и социальных программ направленных на социальную поддержку и социальную

was 150 feet.

Giantess has not played since November 10th.

Bee Hive's last eruption was observed October 8th.

Old Faithful, Castle, Grand, Daisy and the Lion Group show no deviation from regular schedule.

From observations made over Midway and Lower basins the few changes taking place are of the same character as those of the Upper Basin.

The last eruption of the Imperial Geyser to be observed was by Superintendent Toll. There has been no evidence of an eruption since that time. The water in the Crater maintains a constant level, and violent boiling takes place over Main Fissure at regular intervals. The overflow shows no change in volume or velocity.

In a careful survey of the Norris, the increase in water supply marks the only noticeable changes in the activity there.

Congress Pool, a dry steam vent since early summer has filled with water.

The roar of Black Growler has increased in intensity and a temperature of 115° C. recorded there.

The velocity of Tantalus Creek has increased about 5 seconds over a measured 33 ft. channel.

The entire Hot Spring Basin is practically devoid of snow. Thirteen inches of snow on protected ground was not affected by thermal action.

The wires on the Mammoth formations have been read regularly each week as part of the work in cooperating with the Geophysical Laboratory. The Water Gauge in the Gardner River has been read at ten-day intervals in cooperation with the U. S. Geological Survey.

#### 430 - Miscellaneous

A list of the numbers of the permanent and temporary educational staff has, at the request of Mr. Jaffe, been made up, with position, degrees, etc., and sent to the Northern Pacific Railway for purposes of advertising.

Considerable time has been spent on correspondence with Dr. Bumpus, Dr. Castner, Mr. Buschell and Mr. Jones in regard to plans, etc. After the Park Naturalist returned from Berkeley it was necessary to answer all of the collected correspondence which was not taken care of during his absence. This amounted to approximately twenty-five letters, memoranda, etc. No stenographic assistance was available for this work.

Immediately upon the return of the Park Naturalist from Berkeley work was started on the 1930 Ranger Naturalist Manual. The volume will contain the following articles:

1. Revised List of Yellowstone Birds -- Lomax

and the government will be forced to make up for its lack of political  
will by increasing the amount of money it has available to spend. This  
will be done by increasing the amount of money available to the  
central bank and by reducing the amount of money available to the  
central bank to meet its obligations under the new monetary system.  
The new monetary system will be implemented in a gradual  
manner, starting with a small increase in the amount of money available to  
the central bank. This will be followed by a larger increase in the amount of  
money available to the central bank, which will be followed by another  
increase in the amount of money available to the central bank. This  
process will continue until the new monetary system is fully  
implemented.

The implementation of the new monetary system will be gradual and  
will take place over a period of time. The new monetary system  
will be implemented in a gradual manner, starting with a small  
increase in the amount of money available to the central bank, which  
will be followed by another increase in the amount of money available to  
the central bank, and so on.

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money available to the central bank, and so on. This process will

continue until the new monetary system is fully implemented.

2. Ecology as applied to Nature Guiding -- Dr. W. B. McLoughlin
3. The Coloring of Hot Springs -- Plotkin
4. Place Names of Yellowstone Park -- Yeager and Joyner  
(It is planned to make as nearly a complete list of the place names as possible, with a paragraph on each telling the location, history of name, etc.)
5. Big Game Animals of the Yellowstone -- Yeager  
(This article is thought advisable inasmuch as there has been an article written on the habits of our larger animals.)

In addition to the above there will probably be several shorter articles. Work has already begun on the Place Names and it will undoubtedly occupy most of the time for the next few weeks. One thousand cards have been made out, each containing one place name. The paragraphs for the manual will be typed upon these. It is doubtful if the manual can appear before June or July as the amount of typing necessary makes the work very slow.

The manuscript for the Employee's Information Manual has been completed for some time but at the present time it is only about two-thirds copied, due to lack of stenographic assistance. It is hoped, however, that some way will be found to complete this in order to get it in the hands of the printer in time for the summer season.

The Plan of Administration for the Educational Department has been revised in the light of suggestions from the Chief Naturalist. Considerable time has been spent in recopying this Manual but it is hoped that within a few days it will be complete.

No additional books have been received during the past month. Information has been obtained from the Library of Congress relative to the already printed cards. It is estimated that it would be cheaper to buy the library cards already printed than to spend the time typing blank cards at this office. Although no books have been received this month, a complete list of those received since May first has been made out.

Several applications have already arrived for positions on the 1930 Ranger Naturalist Staff. Application blanks and form letters have been obtained from the Chief Naturalist and are being sent to the applicants. It is hoped that it will be possible to obtain all of the applications at an earlier date than usual this year, thus avoiding the last-minute rush to fill the positions. Several excellent applications are at hand and we hope to obtain the finest staff in 1930 of any that we have had so far.

Argued at 11:45 a.m. - opinion written by Justice Lee delivered, 23  
and read - a dissenting note by Justice Mahan filed.

Decided that majority of the members supporting the motion should  
be held responsible or liable for all acts of the majority which  
show an attempt to delay, obstruct or prevent justice and  
that the court be granted judgment and costs.

Motion to reargue and to extend time for  
opinion denied without leave and the cause remanded  
to the trial court for further action in accordance  
therewith.

NOTWITHSTANDING THE OPINION OF THE COURT, IT IS RECOMMENDED THAT

THE TRIAL COURT GRANT RELIEF AND REOPEN TRIALS AND JUDGMENTS  
RENDERED IN THE DISTRICT AND STATE COURTS WHICH WERE MADE PRIOR TO  
THEIR APPROVAL OR PRACTICE BY ATTORNEYS WHO ARE NOT NOW PRACTICING WITH  
THEIR FIRM, SO AS TO

PROVIDE FOR A PROPER TRIAL AND JUDGMENT AND NOT APPROVE OF  
ANY PRACTICE WHICH IS INCONSISTENT WITH THE RULES AND REGULATIONS OF THE  
SUPREME COURT OF CALIFORNIA WHICH REQUIRE THAT NO JUDGE OR ATTORNEY  
SHALL PRACTICE IN ANY COURT OR JURISDICTION UNLESS HE HAS BEEN ADMITTED  
TO THE BAR OF THAT COURT OR JURISDICTION OR HAS BEEN GRANTED A CERTAIN  
NUMBER OF YEARS FROM THE TIME OF HIS OR HER PRACTICE IN ANOTHER STATE OR  
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THEIR FIRM, SO AS TO

11 volumes of Nature Notes have been catalogued as to subjects. By this catalogue the duplication of subjects in this publication is more easily avoided. A set of 57 slides has been picked out and sent to Superintendent Toll for his use during the winter.

From December 1st to 3rd the Park Naturalist was in Yosemite National Park where he attended the conference. From the third to the fifth he was enroute to Seattle. From the fifth to the ninth he took annual leave and arrived in Yellowstone on the tenth. He was on duty until the twenty-fifth of the month, when he took leave until January first. Mr. Joyner has been on duty during the month of December with the exception of two days leave on the twenty-third and twenty-fourth.

#### 510 - Increase of decrease of Travel

The Park is generally closed to travel during December, but like last year this month has been a very unusual one. Cars were driven to eight-mile post on Tower falls road all month as well as to the eight-mile post on the Mammoth to Norris road. Cars were driven from West Yellowstone to Chocolate Pots along Gibbon as late as December 26th. The highway from Gardiner to Mammoth has been free of snow most of the month. The last car to drive to Snake River Station from Moran was noted on December 4th. The travel from Snake River Station to 4-mile post closed on December 8th.

Travel from Livingston to Gardiner has been good and many people drove to the park on December 29th thereby increasing our pre-season travel.

The entrance travel as observed and noted by rangers at the northern and western gateways is reported as follows:

North Gateway - cars 220; people 566
West Gateway - " 1; " 4
Total " 221 " 570

The preceding travel to the close of December this year consists of 3,871 people traveling in 1,342 cars as compared with 2,863 people traveling in 1,020 cars last year, and 2,006 people traveling in 713 cars at the close of December 1927.

#### 520 - General weather conditions

#### 521 - In the Park

The following is submitted by Mr. William T. Lethrop, Meteorologist, showing weather conditions at Mammoth Hot Springs.

TEMPERATURE: While the mean maximum temperature of December averaged slightly lower, the mean temperature of the month was higher

will be introduced. Once central bank has decided to increase its  
policy rate, inflation will rise and real GDP will decrease.  
Thus, there would be a negative feedback loop between the  
central bank's policy and the economy.

Interest rates have a downward effect on both real and nominal output.

Interest rates affect investment by influencing the cost of capital. Investment  
will fall unless real rates fall sufficiently so that firms will  
still find it worthwhile to invest. But interest rates also affect  
output and other elements will be affected because both the AD and  
AS curves depend on factor input costs. Finally, interest rates will  
affect output through their effect on consumption and investment via the multiplier effect. The interest  
rate effect on output is shown below.

#### Interest Rate effect on output = $\Delta Y$

Interest rate effect on output =  $\Delta Y = \frac{1}{1 - MPC} \times \Delta I$   
where  $\Delta Y$  = change in output  
 $\Delta I$  = change in investment  
 $MPC$  = Marginal Propensity to Consume  
Interest rates affect output by changing the cost of capital. If the interest rate  
rises, the cost of capital rises which makes investment less profitable. This  
will cause investment to fall which will reduce output. Interest rates  
will also affect output by changing the cost of factor inputs. Higher  
interest rates increase the cost of factor inputs which reduces output.

Interest rates have a downward effect on nominal output  
because the interest rate affects investment which influences the AD curve and real output.

Interest rates have a downward effect on nominal output  
because they affect the cost of factor inputs.

$$\Delta Y = \frac{1}{1 - MPC} \times \Delta I$$

The following shows why investment is sensitive to interest rates.  
Assume AD<sub>0</sub> = 1000. Consumption is 60 units (C<sub>0</sub>=60), investment is 200 units (I<sub>0</sub>=200) and government spending is 200 units (G<sub>0</sub>=200). Total output is 1000 units. Now assume the interest rate increases to 12%.

#### Interest Rate effect on output = $\Delta Y$

$$\Delta Y = \frac{1}{1 - MPC} \times \Delta I$$

Interest rates have a downward effect on nominal output  
because they affect investment. A higher interest rate reduces investment  
because it makes investment more expensive. Since real output depends on  
investment, real output will fall.

than that of the November just preceding. The December mean minimum was  $13.1^{\circ}$ , while that of November was  $13.4^{\circ}$ . The mean temperature of the months was  $23.0^{\circ}$  and  $23.2^{\circ}$  respectively. In records going back to 1887 colder Novembers appear in only two years, 1898 and 1911. Warmer Decembers are on record in only four years, one of which was 1896, and the last of which was 1917. The year now closing is the third within the period of record in which December was warmer than November.

The thermometer fell to zero but once, - on the 21st, when the minimum temperature was  $-4^{\circ}$ . The highest temperature of the month was  $47^{\circ}$  on the 14th. The mean temperature of the 21st was 12 degrees lower than normal; the mean temperature of the 14th was 21 degrees higher than normal. Every day from the 6th to the 16th inclusive, and from the 23d to the end of the month, was above normal; all days from the 1st to the 3d and from the 17th to the 21st were below normal in temperature.

**Precipitation:** Precipitation, excluding traces, occurred on 16 days, and aggregated about a third of an inch in excess of normal. The accumulated precipitation deficiency for the year 1920 was cut down to 5.65 inches during the month, finally giving just exactly 0.01 inch as the average daily precipitation deficiency of the year. Rain on the 9th and 10th was the heaviest precipitation of the month; on this occasion 0.85 inch was recorded in 24 consecutive hours. Had the automatic rain gage, which was retired to avoid freezing, been in use it is possible that a higher figure would have been recorded.

**Sunshine:** Six days averaged clear, 5 partly cloudy, and 20 cloudy. The duration of bright sunshine was 59% of the possible time.

**Wind:** Average velocity 9.5 miles per hour. Prevailing direction southwest, highest velocity 26 miles per hour on the 12th.

- - - - -

Snow Depths:

	1927	1928	1929
Mammoth	7.5		4.2
Norris	24	27	14
Riverside	22	19	10
Gallatin	17	12	18
Lake	24	16	18
Canyon	30	27	30
Buffalo Ranch	18	8.5	6
Cooke Ranger Station	33	22	50
Norris Canyon Divide	33	33	25
Upper Slough Creek	18	18	13
Hollroaring	8	18	10

and developed a significant relationship with the first year  
student with a high proportion of male students. This suggests  
that a significant number of female students had the same interests  
and goals as their male counterparts. There were some gender differences  
in the types of interests in the first year students. Male first year students  
were found to have more interest in the academic subjects, while female students  
were found to have more interest in the arts and sports.

Other areas which will be given due consideration will include  
those with the educational background. The first year students' parents  
will be asked to indicate their educational level with either self or pre-  
or post secondary such as university, college, vocational school, trade  
and/or any other post secondary education. Parents will also be asked  
about any previous work they have had in the past. This will help to determine  
what sort of family their parents have had and what type of educational  
background all three students have.

In addition, various questionnaires will be used to determine  
the students' job choice as to whether it is their first job or part-time or  
other, name, place and responsibilities and working conditions. This information will be presented  
in a separate section. Other questions will include family size, family income,  
and family background. These will be used to determine the family's  
income and family size. These questions will be used to determine the  
student's job choice, place of work, responsibilities and how satisfied are the  
family members with their job choice. All of this will be used to determine the  
student's job choice.

The last section will be a general discussion with the  
student's family and the student's teacher. The student will be asked  
what he thinks about his/her job choice and why he chose it. The teacher  
will be asked to give his/her opinion on the student's job choice and  
why he chose it. The student will be asked to give his/her opinion on the  
teacher's job choice and why he chose it. The teacher will be asked to give his/her  
opinion on the student's job choice and why he chose it.

Year	Male	Female	Comments
A	80	80	
B	80	80	
C	80	80	
D	80	80	
E	80	80	
F	80	80	
G	80	80	
H	80	80	
I	80	80	
J	80	80	
K	80	80	
L	80	80	
M	80	80	
N	80	80	
O	80	80	
P	80	80	
Q	80	80	
R	80	80	
S	80	80	
T	80	80	
U	80	80	
V	80	80	
W	80	80	
X	80	80	
Y	80	80	
Z	80	80	

Snow Depths (continued)

	<u>1927</u>	<u>1928</u>	<u>1929</u>
Snake River Station, 7-mile post	35	26	41
Aster Creek Cabin	63	42	38
Mylven Pass Station	54	16	18
Crevice		11	24
Therefore		19	30
Fox Creek		40	32
Two Ocean Plateau		35	50
Cold Creek Cabin		30	16
Sportman Lake			45
Bechler	56	36	14
Crystal Springs		24	16
Cub Creek		26	36
Mist Creek			33
Old Faithful			11

Yellowstone Lake froze over on December 19th as against Dec. 21st last year.

Rangers working in conjunction with Reclamation Service report the following snow depths and water contents of same in the southern district taken on December 19th:

	<u>Inches</u>	<u>Water contents</u>
Snake River Station	13	3
Snake River Road, 4-mile post	28	6
" " " 6-mile post	42	8.5
Aster Creek	41	8.5
Cascade	28	6.5
Colter Creek	31	5

600 - Protection

610 - Police Protection - Proceedings of the U. S. Commissioner.

Mr. William B. Asterly was arrested in the Bechler River District for killing a bull elk. Case was tried by Judge Meldrum and Mr. Asterly was fined \$100.00 and costs.

900 - Miscellaneous

Church Services: English Lutheran services were held in the Lodge Room on the evening of Tuesday, December 30, by Rev. Webster H. Clement.

A Christmas service was held in the Chapel on Sunday evening, December 29th by Lt. Rev. J. N. Fox, Bishop of Montana.

Very truly yours,

M. V. Deam,  
Acting Superintendent.

1995 wird Berlins ein 2000-jähriges-ja-habt-euch-nicht-vergessen-ja-habt-euch-nicht-vergessen

non-structural materials can be manufactured in various shapes and sizes and can be used as fillers for soil, as aggregate, and for various other purposes.

Country	Capital	Population (millions)	Area (square miles)
U.S.A.	Washington, D.C.	270	3,717,000
Canada	Ottawa	28	3,855,000
Mexico	Mexico City	75	757,000
Bolivia	Santa Cruz	10	270,000
Argentina	Buenos Aires	35	1,040,000
Uruguay	Montevideo	3	67,000
Chile	Santiago	15	270,000
Ecuador	Quito	10	280,000
Venezuela	Caracas	12	88,000
Brazil	Brasilia	150	3,286,000
Peru	Lima	15	496,000
Colombia	Bogota	15	437,000
Paraguay	Asuncion	2	157,000
Bolivia	La Paz	2	270,000
Surinam	Paramaribo	0.5	65,000
Costa Rica	San Jose	2	18,000
Honduras	Tegucigalpa	2	40,000
Nicaragua	Managua	2	18,000
Panama	Panama City	2	29,000
El Salvador	San Salvador	2	18,000
Grenada	Saint George's	0.1	100
Barbados	Bridgetown	0.2	160
Jamaica	Kingston	2	4,300
Trinidad	Port of Spain	0.5	1,900
Bahamas	Nassau	0.5	3,000
Argentina	Buenos Aires	35	1,040,000
Uruguay	Montevideo	3	67,000
Chile	Santiago	15	270,000
Ecuador	Quito	10	280,000
Venezuela	Caracas	12	88,000
Brazil	Brasilia	150	3,286,000
Peru	Lima	15	496,000
Colombia	Bogota	15	437,000
Paraguay	Asuncion	2	157,000
Bolivia	La Paz	2	270,000
Surinam	Paramaribo	0.5	65,000
Costa Rica	San Jose	2	18,000
Honduras	Tegucigalpa	2	40,000
Nicaragua	Managua	2	18,000
Panama	Panama City	2	29,000
El Salvador	San Salvador	2	18,000
Grenada	Saint George's	0.1	100
Barbados	Bridgetown	0.2	160
Jamaica	Kingston	2	4,300
Trinidad	Port of Spain	0.5	1,900
Bahamas	Nassau	0.5	3,000

merit recipient will make significant contributions to research and basic knowledge relating to health care delivery, public health, and/or medical education.

*and have been considered as being representative of certain areas of the northern plateau to which will be given below.*

WILHELM GÖTTSCHE LOWE: "GOTT GIBT NICHTS BESONDERS, WIE DAS LEBEN SEIN KANN."

FINAL 1929 RECORD OF GAME KILLS IN ADJACENT STATES.

WYOMING.  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>	<u>Deer</u>	<u>Moose</u>	<u>Bear</u>	<u>Roe</u>
Upper Yellowstone	51	20	15	10	1
North Fork (Shoshone R.)	40	125			
Clarks Fork	1	3	—	—	—
	22	148	15	10	1

MONTANA  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>	<u>Deer</u>
MOIMAN DISTRICT		
Vicinity of Hoppe Ranch	35	42*
Jardine and Crevia Mt.	108	
Buffalo Flats	78	
Parkers & West	10	
Inside Park	2	
Blanding Ranch	2	
Mosaleys and North	29	
Pole Creek	2	
Buffalo Fork (in Boulder River)	25	
Slough Creek (in " ")	16	
Cooke City	6	
Killed for teeth ?	1	
Gardiner District Total - - -		312
Madison River	12	
Red Canyon	19	
Galatin District	275	306 - 400**
TOTAL		618 442

\* Of this number 6 were illegal kills.

\*\* Of this number 300 were does and 100 bucks.

As near as can be determined 10 deer were illegally killed during the elk season after the deer season was closed.

9 elk were confiscated by the State Game Department.

A conservative estimate of the number of hunters who were seeking elk is 2,00 (in Gardiner district).

ID-AZ  
(Adjacent to Park)

<u>District</u>	<u>Elk</u>
Warm River	10

(See *note* above.)

<u>Model</u>	<u>Model</u>	<u>Model</u>	<u>Model</u>	<u>Model</u>	<u>Model</u>
1	0.1	0.1	0.0	0.0	0.0
			0.1	0.0	0.0
2	—	—	—	—	0.0

#### Answer

While *Arenaria* was a genus which had been split into two parts, *Arenaria* sensu stricto now contains only 30 species, while the genus *Chionophila* contains 61. Furthermore, one new species has been added.

(start of message)

SUMMARY OF PRE-SEASON TRAVEL BY GATEWAYS WHICH  
INCLUDES ALL TRAVEL UP TO SEPTEMBER 26, 1929.

North Gateway.

	Cars	Visitors
October	496	1406
November	169	372
December	230	366
TOTAL	<u>895</u>	<u>2344</u>

West Gateway.

October	375	1230
November	60	210
December	1	4
TOTAL	<u>436</u>	<u>1464</u>

East Gateway.

Closed for road construction on September 20th.

South Gateway.

October	21	61
---------	----	----

Total of pre-season travel by all gateways is as follows:

Total cars	-	1342
Total visitors	-	3571

as compared with pre-season travel of 1928:

Total cars	-	1030
Total visitors	-	2853

DEPARTMENT OF DEFENSE  
DEFENSE INFORMATION SYSTEMS AND TECHNOLOGY

ACQUISITION	DATA	TEST	DEVELOPMENT	MANUFACTURE
DATA	DATA	TEST	DEVELOPMENT	MANUFACTURE
TEST	TEST	TEST	DEVELOPMENT	MANUFACTURE
DEVELOPMENT	DEVELOPMENT	TEST	DEVELOPMENT	MANUFACTURE
MANUFACTURE	DATA	TEST	DEVELOPMENT	MANUFACTURE
			DEVELOPMENT	MANUFACTURE
			MANUFACTURE	MANUFACTURE

DEPARTMENT OF DEFENSE INFORMATION SYSTEMS AND TECHNOLOGY

DATA TEST DEVELOPMENT MANUFACTURE

10-157

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

TRAVEL REPORT

Yellowstone

December 1929

National Park for the Month of .....

	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 .....	221	1218	82	981	237	24	1
Cars reentry .....		134		36	98		2444
Motorcycles .....		0		3	- 3		
Total motor vehicles .....	221	1342	82	1020			
Persons entering via motor vehicles .....	570	3871	163	2853	1018	55	
Persons entering via other private transportation .....							
Total persons entering via private transportation .....	570	3871	163	2853	1018	55	

OTHER TRANSPORTATION:

Persons entering via stages ..	570	3871	163	2853	1018	55
Persons entering via trains ..						
Persons entering otherwise ..						
Total other transportation ..	570	3871	163	2853	1018	55
<u>GRAND TOTAL ALL VISITORS ..</u>						

	This Year	Last Year	Increase
			Number   Percent

Automobiles in public camps during month .....

Campers in public camps during month .....

DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE  
UNITED STATES

ТЯО҆РЭЯ ЛЕВАЯ Т

National Park to the north of

1

	100	200	300	400	500
~ 44	30	40	50	60	70
R =	5			7	8
	0.001	0.01	0.02	0.03	0.04

1980 1981 1982 1983 1984 1985 1986 1987

100 200 300 400 500

| Year |
|------|------|------|------|------|------|------|
| 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |

OUR OWN SIGHTS AT VICTORIA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

## STATUS OF PERSONNEL

**Yellowstone****December 1929**

National Park for the Month of .....

	This Month	This Month Last Year
Number of employees beginning of month .....	25 76	68
Number of additions. . . . .	2 3	0
Total . . . . .	27	68
Number of separations. . . . .	21 3	1
Number of employees close of month . .	16 76	67
<hr/>		
Number of promotions during month. . .	0	0
<hr/>		
Aggregate amount of annual leave taken .....	150 569	333½
Aggregate amount of sick leave taken .	28 46	33
Aggregate amount of leave without pay. .	14 29	6
<hr/>		

UNITED STATES

## DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

## STATISTICS OF PERSONNEL

National Park for the Month of

Last Year	This Month	This Year
-----------	------------	-----------

## UNITED STATES

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

**Yellowstone**

National Park for the Month of

**December 1929**

	This Month	This Month Last Year	Increase	Percent Increase
--	---------------	----------------------------	----------	---------------------

LOCAL BUSINESS

Miles of circuit maintained . . . . .	528	498	30	.06
No. of telephones connected . . . . .	161	151	10	.065
No. of measured service calls . . . . .				
No. of other local calls . . . . .				
Total No. of local calls . . . . .	4072	4574	- 502	
Peak load in calls per day . . . . .	260	223	43	

Receipts from measured service calls. . . . .

Receipts from coin boxes. . . . .

Receipts from telephone rental . . . . .

TOTAL RECEIPTSLONG DISTANCE BUSINESS

No. Outbound calls. . . . .	51	54	- 3
No. Inbound calls . . . . .	79	75	4

TOTAL LONG DISTANCE CALLS

Peak load in calls per day. . . . .	6	11	- 5
Receipts from Long Distance business. . . . .	\$47.00		

TELEGRAPH BUSINESS

Messages via Western Union . . . . .

Messages via . . . . .

TOTAL MESSAGES

Receipts from telegraph business. . . . .			
No. of money transfer messages. . . . .			
No. of money transfer receipts. . . . .			

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPT-

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

SACRAMENTO, CALIFORNIA, SEPTEMBER EIGHTH, ONE THOUSAND NINETEEN

RECEIVED - FEDERAL BUREAU OF INVESTIGATION

SEARCHED	INDEXED	SERIALIZED	FILED
SEARCHED	INDEXED	SERIALIZED	FILED

FEDERAL BUREAU OF INVESTIGATION

SEARCHED	INDEXED	SERIALIZED	FILED
SEARCHED	INDEXED	SERIALIZED	FILED

SEARCHED INDEXED SERIALIZED FILED  
SEARCHED INDEXED SERIALIZED FILED  
SEARCHED INDEXED SERIALIZED FILED

SEARCHED INDEXED SERIALIZED FILED

SEARCHED INDEXED SERIALIZED FILED

SEARCHED INDEXED SERIALIZED FILED  
SEARCHED INDEXED SERIALIZED FILED

TOTAL PAGES DESTROYED CANCELED

SEARCHED INDEXED SERIALIZED FILED

SEARCHED INDEXED SERIALIZED FILED  
SEARCHED INDEXED SERIALIZED FILED  
SEARCHED INDEXED SERIALIZED FILED

SEARCHED INDEXED SERIALIZED FILED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

**Yellowstone** \*ELECTRICITY GENERATED, SOLD, USED, ETC. December 1930

National Park for the Month of DECEMBER

~~XXXXXX~~

	This Month	This Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number   Percent
	65150.0	41620.0	60580	451000.0	-14250.0 <del>5%</del> -3
Current generated, . . . . .	465.4	42742.5	307.1 33486.7	-50097.2	3.2 -37
Sold to park operators, . . . . .					
Sold to others, . . . . .					
Furnished to other Governmental agencies, . . . . .					
Used by National Park Service, lost in transit, etc., . . .	64634.6	354077.5	60874.9 337810.5	10467.2* 4.8 <i>6%</i>	3.3 -3
Total current generated, . . .	65150.0	41620.0	60580.0 451000.0	14250.0	

\* ~~Increase~~

23.27

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

\* Indicated by K. W. H.

UNITED STATES

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

\*ELECTRICITY GENERATOR, SOLD, USED, ETC.

MATERIALS PARK FOR THE MOUNTAIN OF

Mountains	To State	Years	Years	Mountains	Travel	This	This	Last	Indicates for
Mountains	To State	Years	Years	Mountains	Travel	This	This	Last	Travel Years

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

## REPORT OF PARK REVENUES

**Yellowstone**

National Park for the Month of

December 1939

	This Year	Last Year
Park revenue on hand beginning of month . . . . .	None	None
Received. . . . .	\$5,173.61	\$3,173.61
Total. . . . .	\$8,173.61	\$3,173.61
Remitted. . . . .	\$3,173.61	\$3,173.61
On hand close of month. . . . .	None	None
<hr/>		
Park revenues received this year to date. . . . .	\$178,879.24	
Park revenues received last year to date. . . . .	158,305.08	
Increase. . . . .	\$ 20,574.16	
Percent of increase . . . . .	8	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

B E B O R T O F P A R K R E V E N U E S

National Park for the Mouth of

This  
Year  
Last

10 - Ranger Department and Game Service  
Rangers were unusually busy making game  
trods carrying on their work very effective in the  
districts adjacent to hunting territory. Mounted  
trods along the northern boundary, observing the  
lift of the elk, and working in conjunction with  
Forest Service and Game Departments avoided a  
at many violations of the hunting laws.

Weather conditions were much more  
favorable for the regular ski and snowshoe patrols  
which were carried out with the usual precision.  
Anger reports indicate snow conditions are  
below normal but snow holds heavy water contents  
due to warm weather for the month.

Chief Ranger Bayley supervised the patrols  
on the North district during the hunting season.  
Camp was made at the Blanding Ranch on  
Jardine Road where seven Rangers patrolled  
in earling morning till dark, gathering data of  
kills for the season.

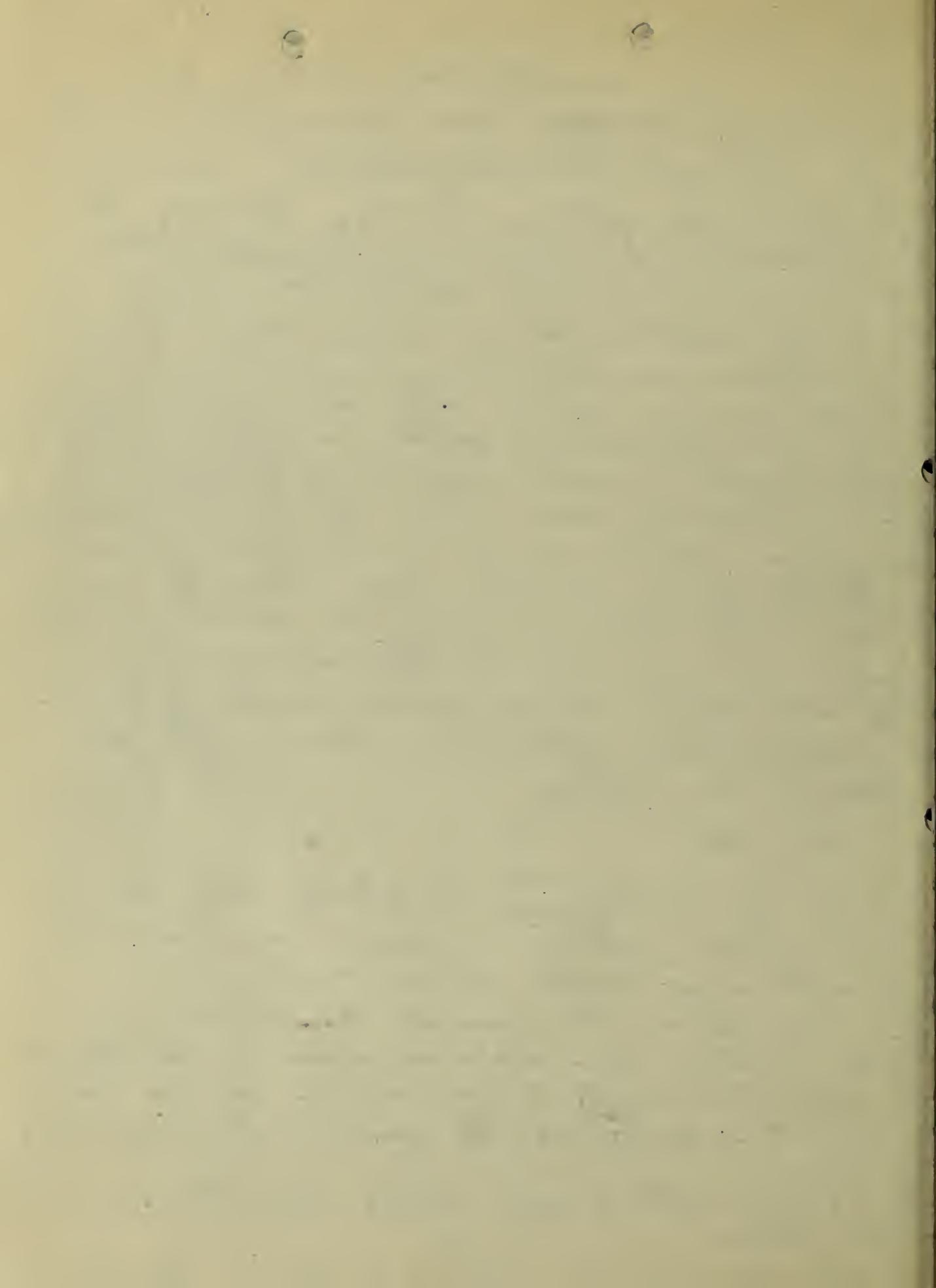
### Animals

Wild life and forage conditions were splendid  
for the month. Weather conditions were unusually  
cold with snow depths below normal.

Elk: Reports on Elk indicate them to be in  
better condition than previous years. No reports of  
inter kills to amount to any mention at this time.  
course it is early <sup>and</sup> the elk usually winter kill from  
now on.

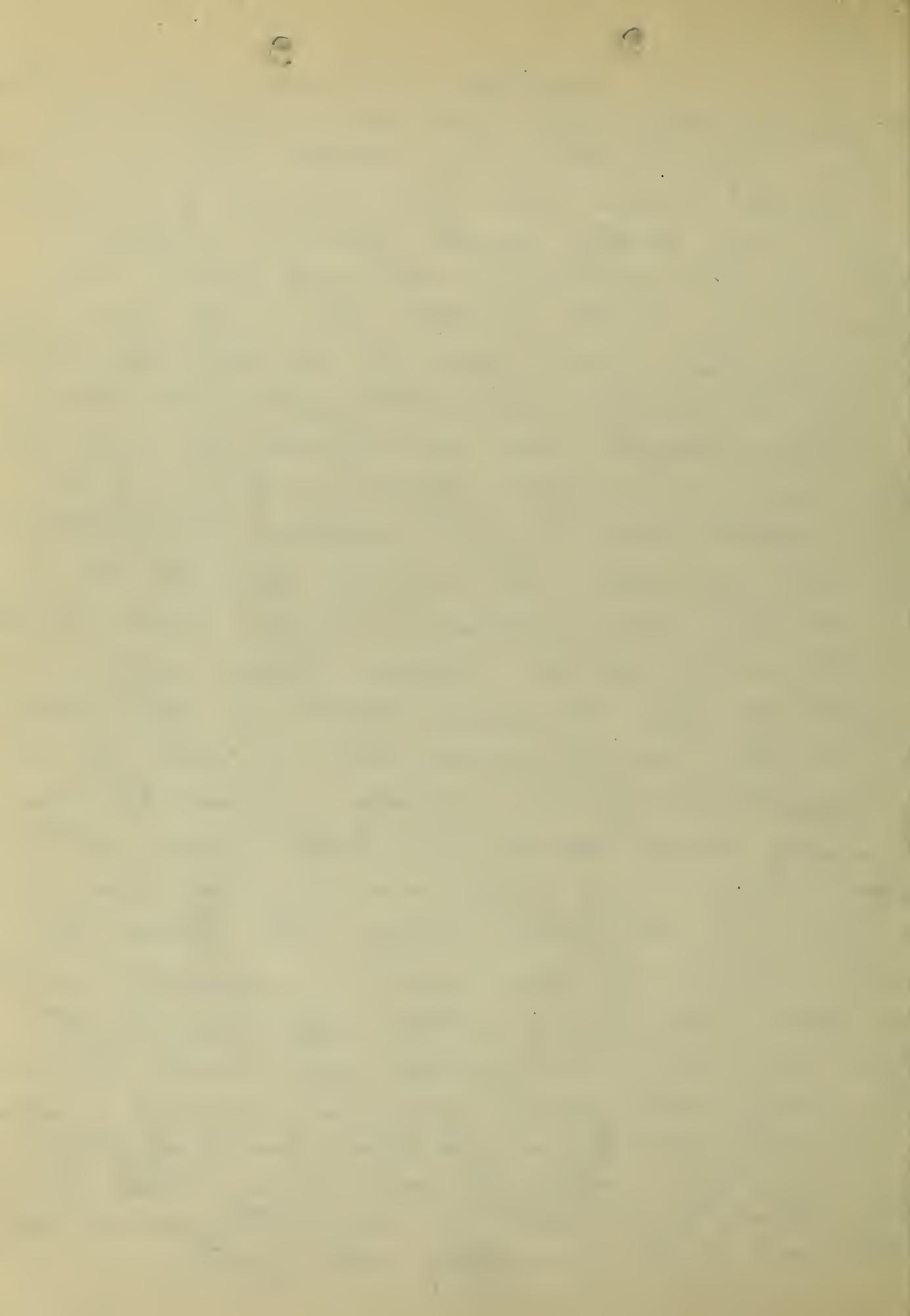
The final reports of elk hunting activities are  
related below.

Reports from Jackson hole indicate a kill of 2000



# Elk

Reports on the conditions and observations of the elk indicate they have had an unusually fine north. In the Bechler river district fifty head have been observed. These elk were seen on December the 1<sup>st</sup> and were drifting south. Gallatin district reports 500 elk feeding on Daisy and Black Butte flats. Crivice reports 100 elk on the south slope of Crivice mountain and most all the elk have drifted in to the park down along the Yellowstone River. Faithful district gives an estimate of 1,250 elk in the upper and lower geyser basins. Lake district reports seeing a few scattered elk between Canyon and Mammoth. An estimate of fifty elk is given for the Norris district. Town Falls reports 90 elk feeding on the Lamar Flats around Mammoth we have the usual amount of 150 head feeding on the Parade grounds, with a count of 750 from Mammoth to Gardiner bridge. Blacktail has an unusually large number of bulls feeding on the meadows there. 125 bulls were counted from Soda Creek to Blacktail bridge. All these elk herded around the Park were in excellent condition. A fine percentage of calves were reported to be seen with cows. The grasses were easily obtained - to much bare ground and wind swept ridges in the elk have to paw for their feed that starts in using their surplus fat and bringing them down body but at the present time very little pawing has been done due to the unusually mild weather.



ntelope:

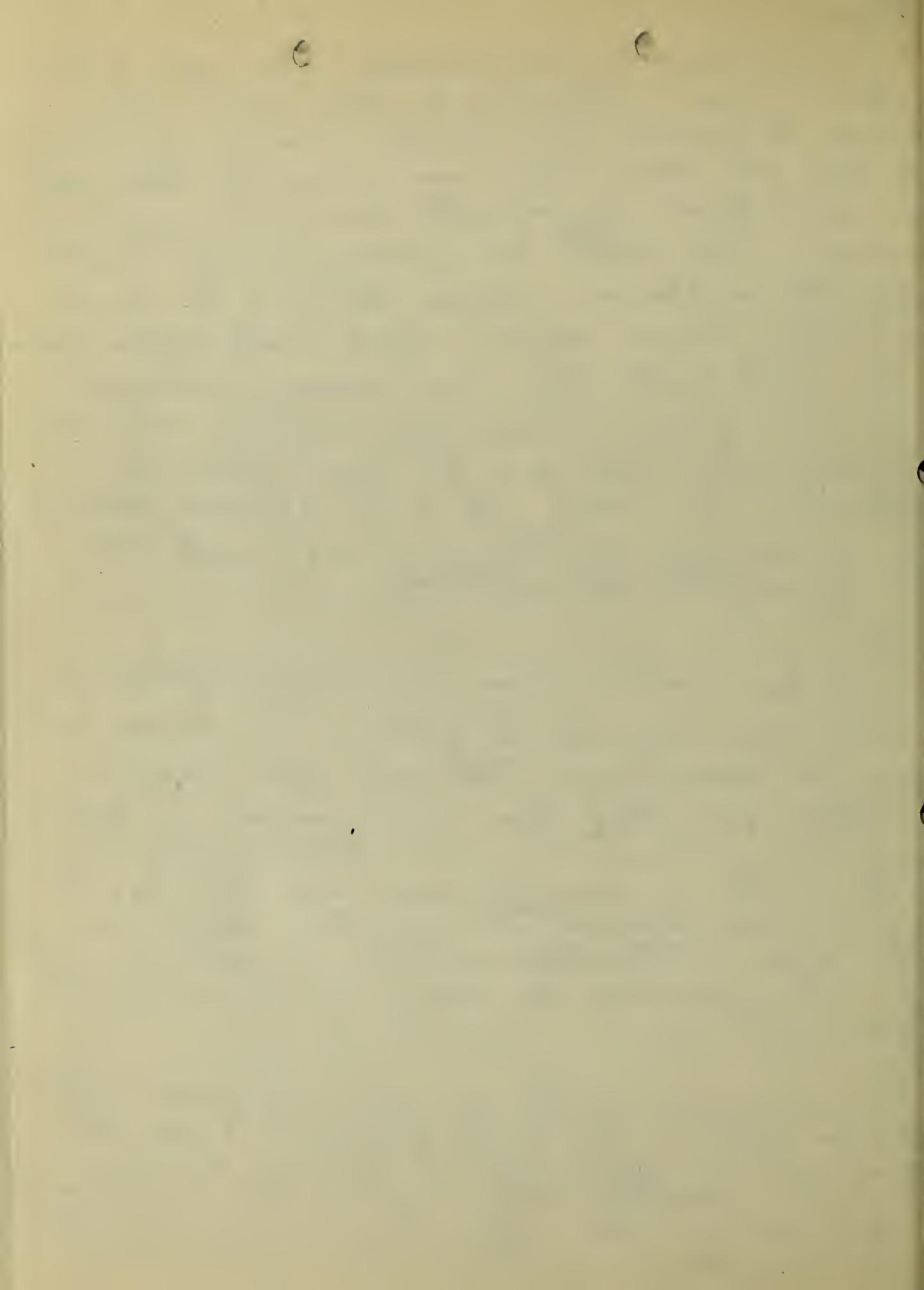
On Christmas day 19 antelopes were seen from a Administration building on the top of the hill on old road to Gardner. Nine of this number were kids and they were very stay, seeming as tho this was their first year of mammoth and acted quite untrained. The north line fence has been lifted giving the antelopes a chance to go to the game reservation ranch ~~that~~ where most of their proper winter feed exists. The largest number of antelopes noted from Gardner Ranger Station district was 207. Orman's report will give the exact total of antelopes in the band. All of the antelopes observed are in splendid condition and no reports of kills by coyotes were observed.

Sheep:

Forty three mountain sheep have been observed on road from mammoth to Gardner. These sheep have few old rams among them and after careful observations find that there is no evidence of disease among them. Tower Falls reports twelve sheep on mountain Butte 2 rams, 7 ewes, and 3 kids. We are glad to be informed <sup>that</sup> the mountain sheep are stated to be in a <sup>much</sup> healthy condition, for after the last winters kill by disease the sheep were in a deplorable condition.

Deer:

The increase of deer is very noticeable. Forty two were killed in the Gardner district during the hunting season and it is safe to say these were park deer. along the Yellowstone River from Bear Creek to Gibbonsburg it has been 125 seen. Mammoth has about 100 with usual 25 waiting for a cookie or piece of bread from



the hands of a I employee, Mr. McDonald feeds a little band of twenty five every morning near Hotel commissary. Tower falls reports nine head in the vicinity of the station. All deer are in sound condition and many beautiful bucks are seen daily. None have shed their horns ~~so far~~ <sup>as far as</sup> starting this process usually being as early as the 15<sup>th</sup> of January. A few losses are reported as killed by coyotes.

In the Thorofare District many moose were observed twenty nine were seen one day which is the same number as was seen on a similar patrol in December 28. Conditions were favorable for them this fall and very few were reported killed by hunters a total of is the exact kill. Many cows have twins, as reported last year. Five moose have been seen by rangers in the southern district which is a smaller number than a year ago.

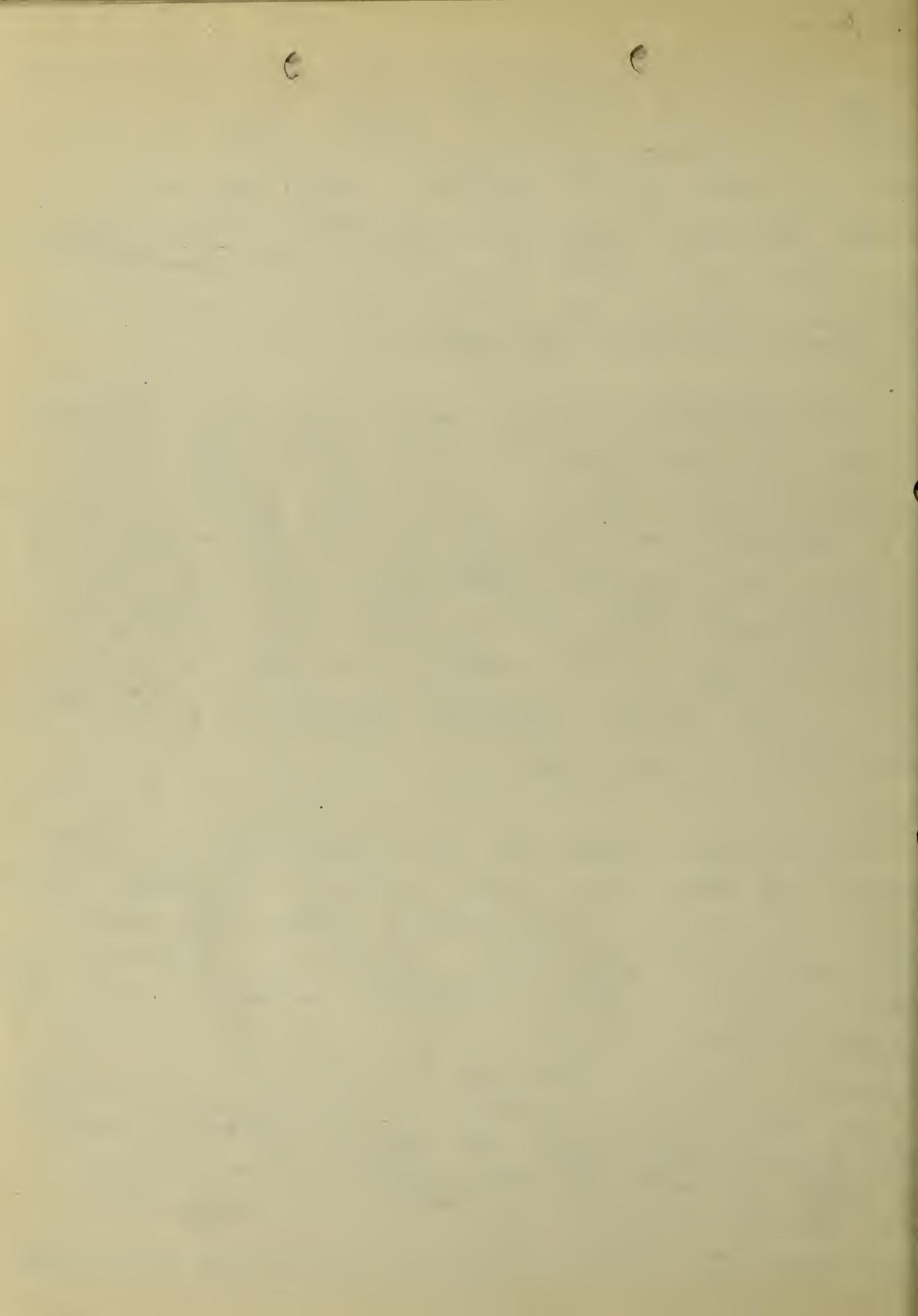
#### Bears:

A few bears remained out of hibernation as late as Dec 7<sup>th</sup> these were seen around the Lake District. Dec 14 a bear came out of hibernation from Bob Creek and went thru twenty five to thirty inches snow climbed up side of a rather mountain going into hibernation there.

#### Buffalo: Lamar River Herd.

The drift of the buffaloes accrued on December the 1<sup>st</sup>. a few getting down as far as Hellroaring and Falls, but most of them stayed on the Lamar flats. All are in good condition. No losses are reported for the month.

A recount will be made of the herd during the



Buffalo: Lamar River Herd.

First week in January in connection with the roundup for the corralling and winter feeding the calves. The first full count of the 1928 calf crop will be secured at that time and the number of each sex will be noted.

Buffalo. Cold Creek. Pelican Creek Herd:

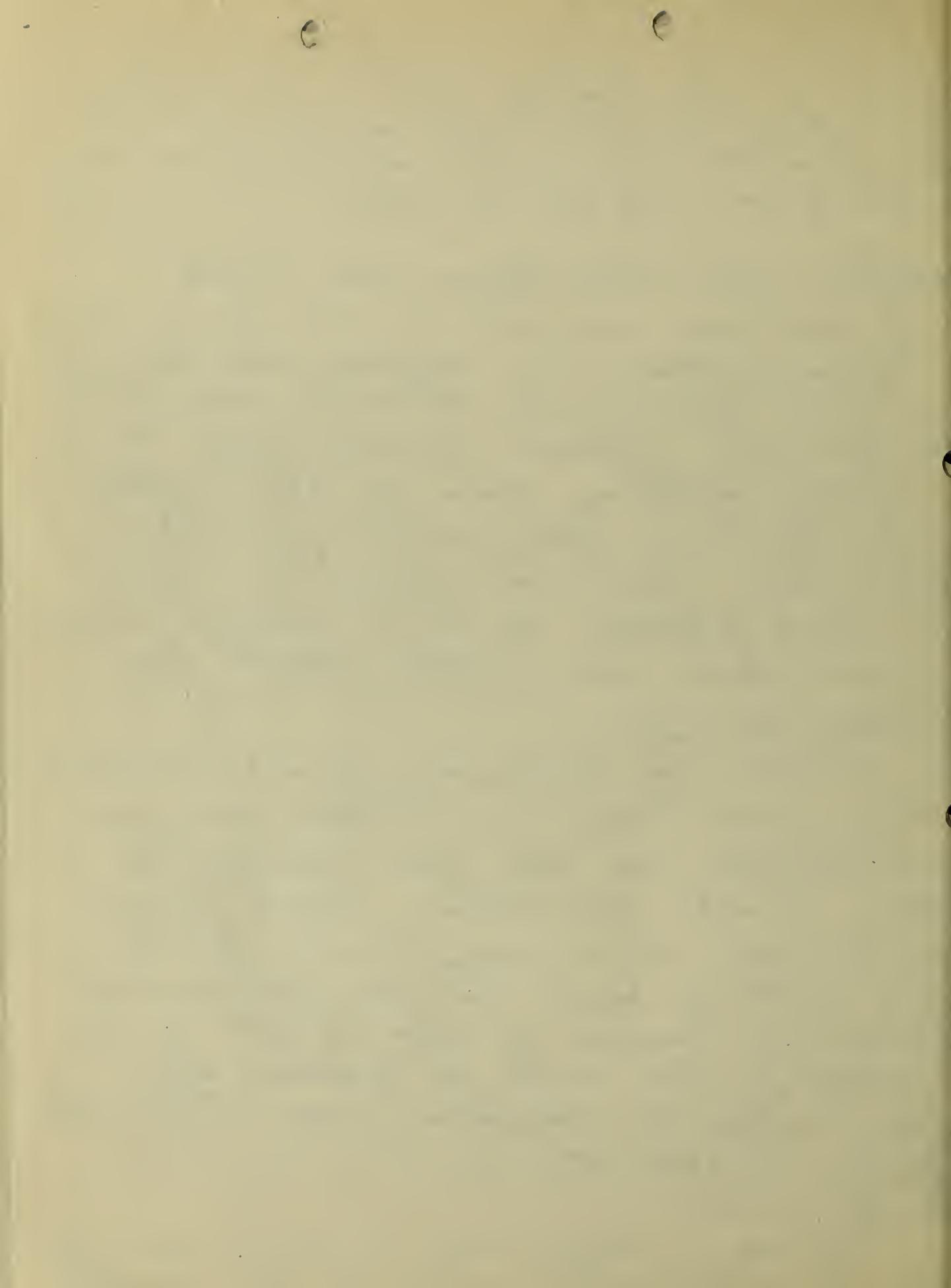
A few signs were seen on upper Lamar during December Patrol. These buffaloes did not come down to the Ranch so were believed to belong to the Old Creek herd. Pelican meadows seems to be an enticing wintering place for these buffaloes. Twenty-three were counted just below Pelican Cabin. This is an increase over last year. These buffaloes were all in excellent condition and nine calves were reported with the cows.

Predatory Animals. -

Mountain Lion tracks were observed on Huckleberry Mountain below Snake River Station. Numerous Gray Cat tracks have been seen both in the northern district and western. Coyote tracks have been seen as numerous as ever also the foxes are to be heard but our records show decrease in number of kills. A total of 24 were killed for the month of December as compared with 68 of December 1928. Total kill January 1<sup>st</sup>, 1929-90.

Small Animals:

Fur bearing animals such as Martin, mink, Otter, Beaver, Fox, muskrat, + Badger, have all been reported.



seen in the Ranger districts throughout the park  
ravens are very plentiful, one set is into Cabin  
creek and destroying winter rations as well as  
aking a nest out of the bedding. Numerous  
trout have been seen around Lake Yellowstone and  
its tributaries. Muskrat houses are as abundant  
as a year ago on all the small ponds especially between  
Upper Falls Ranger Station on Lamar River Bridge.

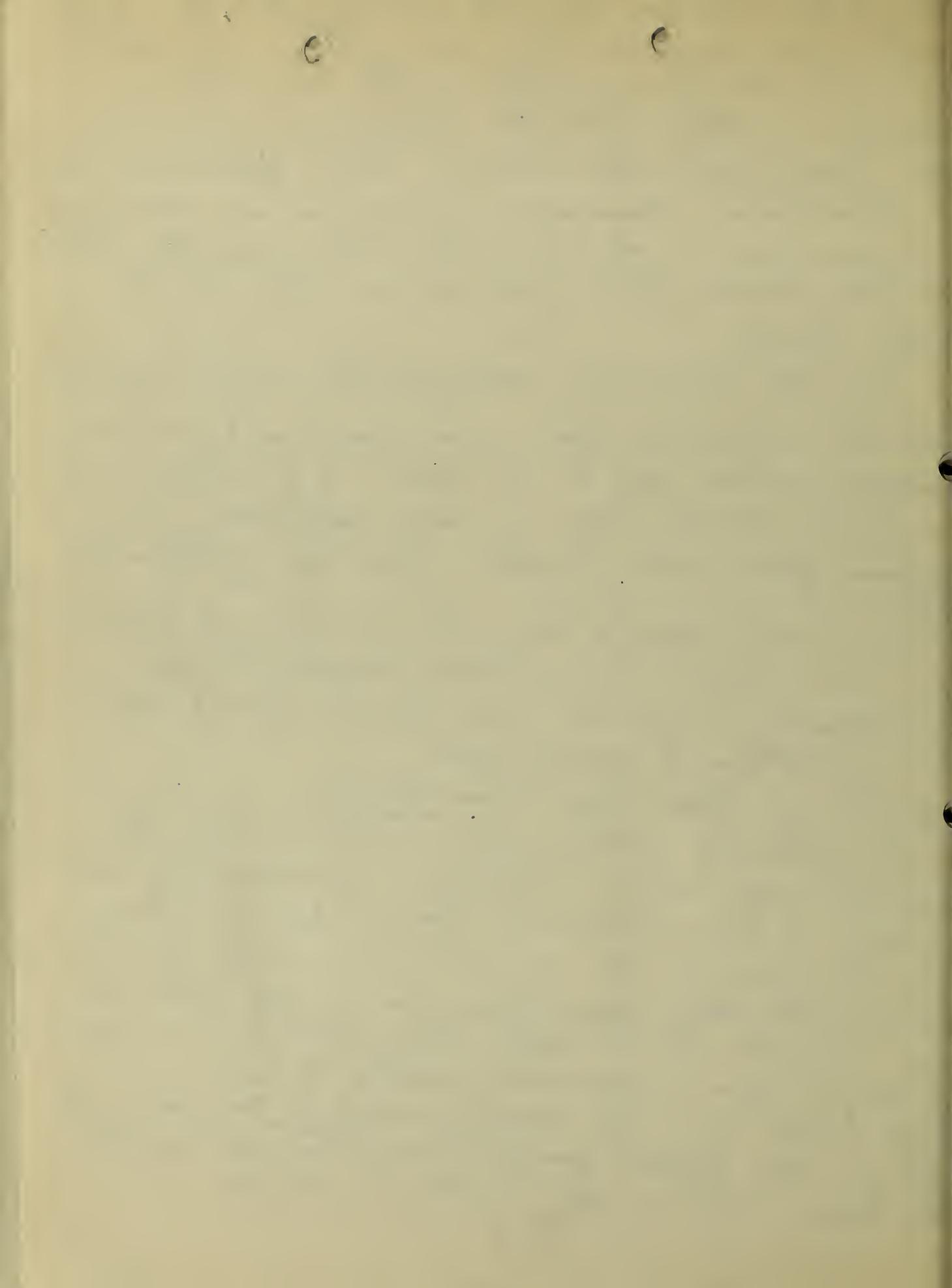
#### Water Fowl:

On all the open waters of the park numerous  
mallards, merganser, teal, golden-eye, redheads, and  
ring-neck ducks are to be seen. 97 Swans were  
counted in Mariposa Bay on Lake Yellowstone. 123  
canadian geese were counted along the Yellowstone  
river.

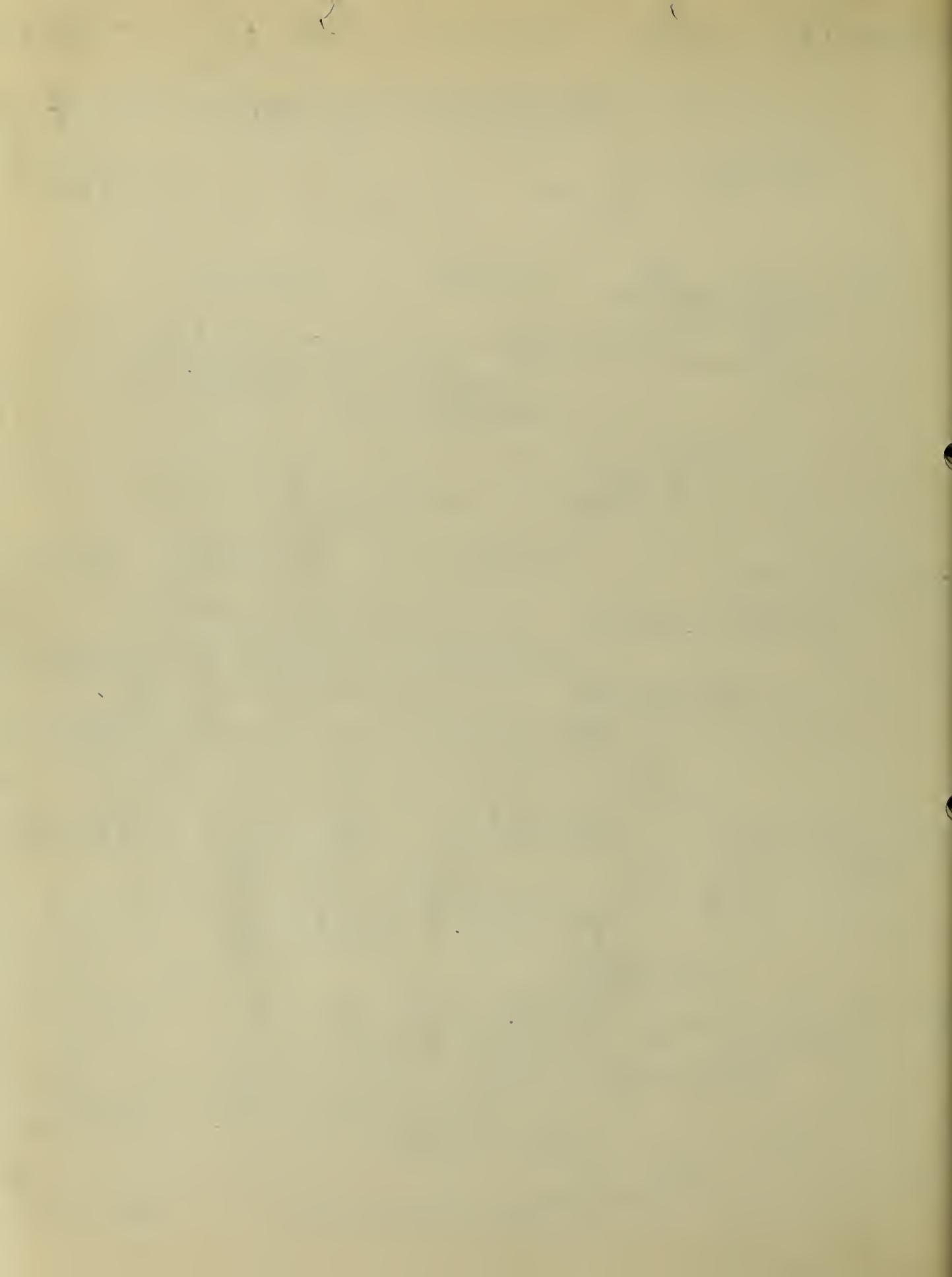
Other bird life of the park includes the Clark's  
owls, Raven, Crow, Camp Robber, magpie, Blue-jay,  
Lor Warbler, Snow-bird, Owl, Hawk, Water Ouzel,  
rouse, Golden and Bald Eagles.

#### Buffalo and other Ranch Operations

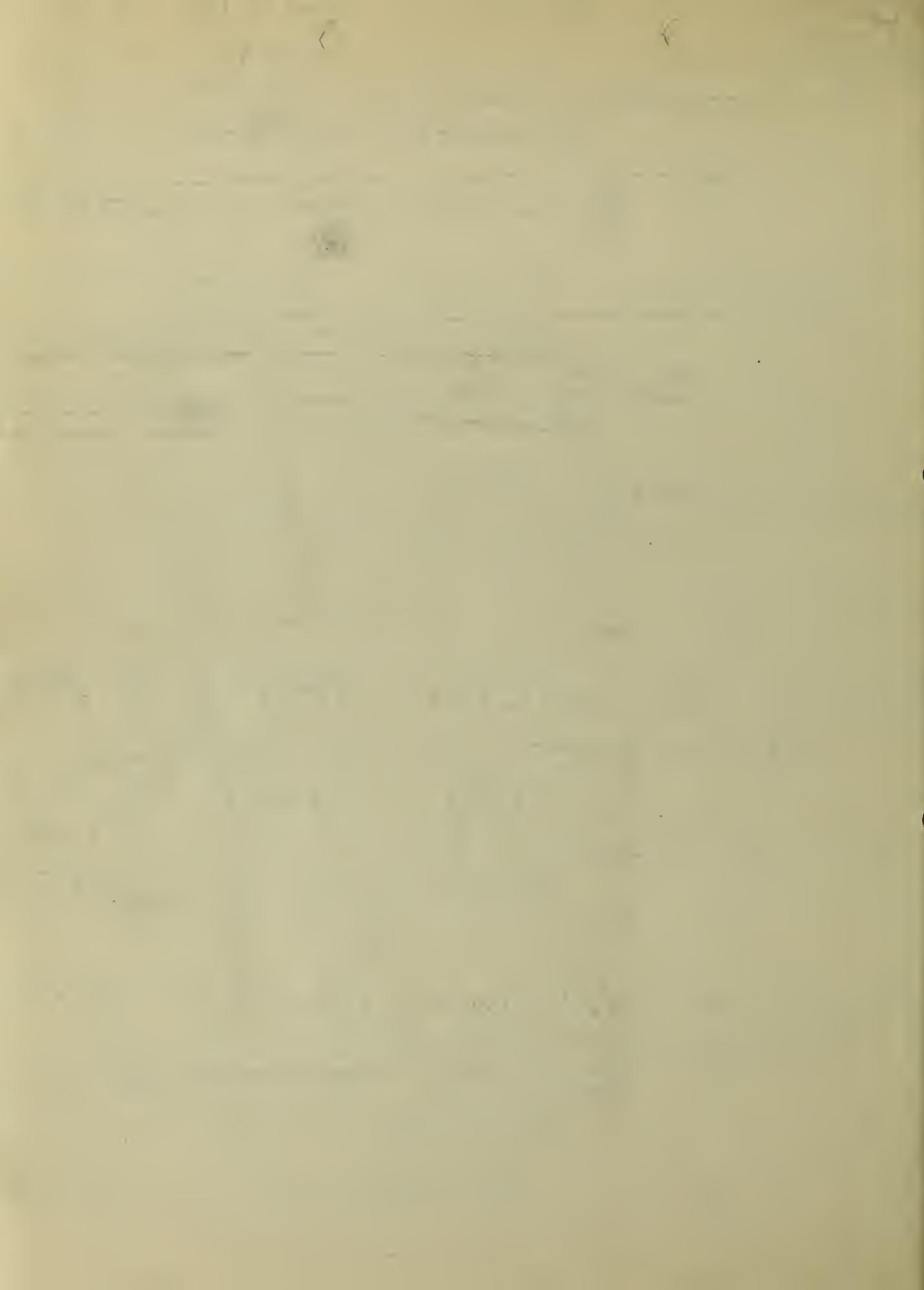
The activities at the Slough Creek Ranch consisted  
necessarily of the care and maintenance of equipment and  
feeding of Government and Rangers horses. Feeding  
began on December the 4<sup>th</sup> and numerous elk have  
been turned in to the ranch since then and are fed with the  
buffalo. Buffalo Ranch activities consisted of maintenance  
of buildings, repair of equipment, feeding of teams and  
dole horses, and the work incident to the care and  
feeding of the buffalo herd. Feeding of buffaloes has not started  
at the Ranch due to mild weather conditions.



130 -	Allotment Encumbered		Balance
10433 YNP 1979-80	477950.00	.37516.50 8,705.40	140433.50
Encumbered			
	477950.00	395,721.90	137778.10 3519.55
Rearrs			
Balance			135747.65
105 Forest Fire Fighting	570.88	570.88	0
Neil Park			
Encumbered			0
	570.88	570.88	0
Rearrs			0
Balance			0
10418 Getay 24-30	11550.00	5654.08	5895.92
Encumbered		0	
	11550.00	5652.08	5895.92
Rearrs			0
Balance			5895.92
36 Roads & Streets	896428.80	883197.81	1323039
Encumbered		3111.01	
	896428.80	886308.82	10119.38 71.38
Rearrs			
Balance			
10 Unappropriated	300400.00		10199.76
Encumbered		0	
	300400.00	0	300400.00
Rearrs			0
Balance			300400.00



	Allotment	Expenditure	Balance
470 WPS Donations Encumbered	76024.30	68489.76	7534.54
	<u>76024.30</u>	<u>68489.76</u>	<u>7534.54</u>
Repay			
Balance			<u>7534.54</u>
09 Winter Seed Encumbered	5300.00	4100.00	1200.00
	<u>5300.00</u>	<u>4100.00</u>	<u>1200.00</u>
Repay			
Balance			<u>1200.00</u>
410 Winter Seed Donations Same as 4x409			
9433 YTP 28.29	435088.00	439039.71	RE 3951.71
Encumbered		10.28	
	<u>435088.00</u>	<u>439049.99</u>	<u>RE 3961.99</u>
Repay			<u>5299.55</u>
Balance			<u>1337.56</u>
177 47 P 1,928	358000.00	358252.57	RE 252.57
Encumbered			
	<u>358000.00</u>	<u>358252.57</u>	<u>RE 252.57</u>
Repay			<u>472.67</u>
Balance			<u>270.10</u>



480 Thermal activity for December.

### Upper Geyser Basin.

Wet heavy snows from Dec. 9<sup>th</sup> to 16<sup>th</sup> accompanied by warm weather, reaching a maximum of 50° had an effect similar to spring freshets on the hot springs of the region, slight increase in the water supply and a corresponding decrease in temperatures. This applies only to the smaller springs, no changes in geyser action could be noted.

Giant playing at intervals of from seven to fifteen days, three eruptions during December, maximum height observed 150 ft.

Giantess has not played since Nov. 10.

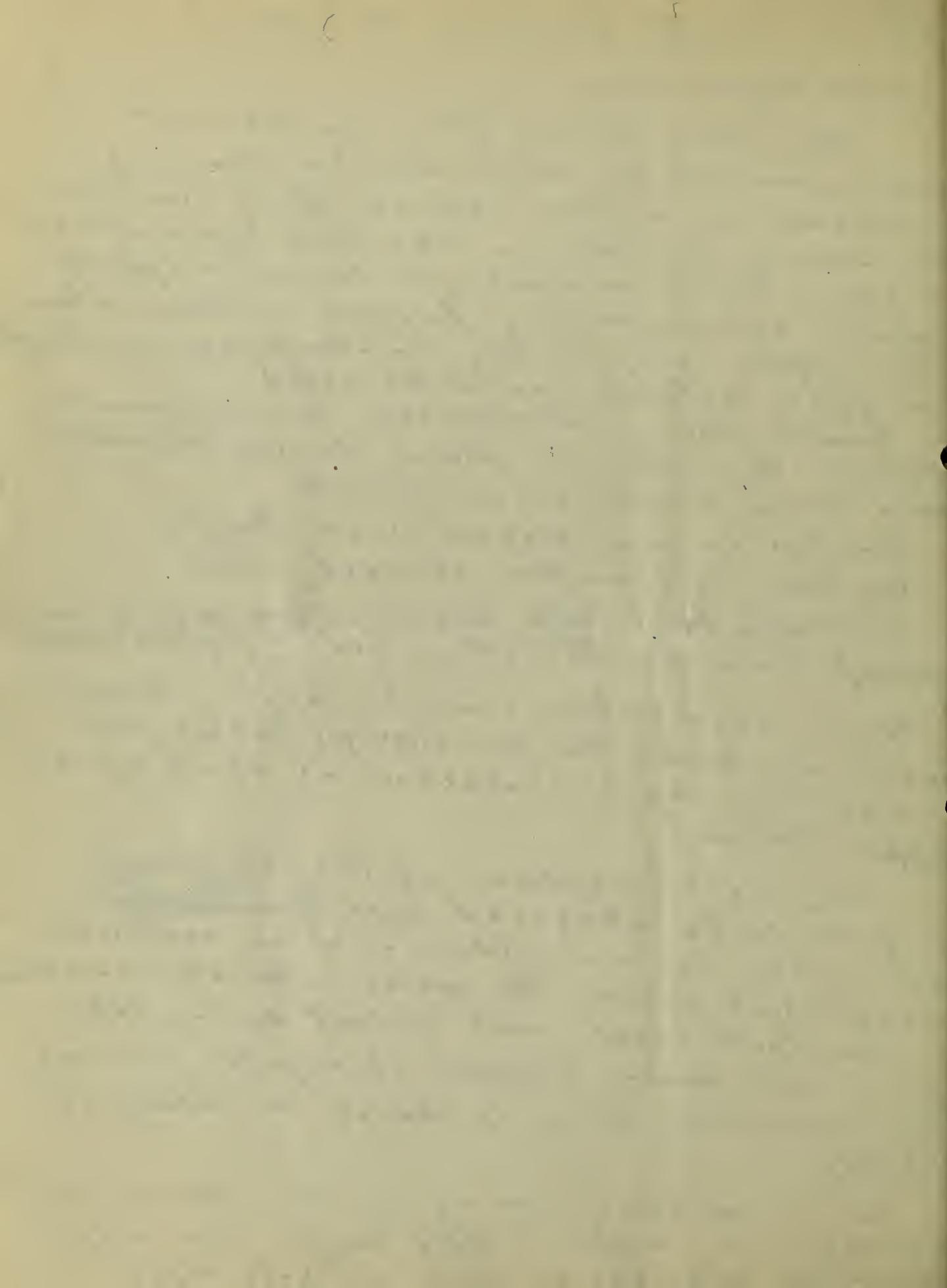
Beehive, last eruption observed, Oct. 8.

Old Faithful, Castle, Grand Daisy and the Lion group show no deviation from regular schedule.

From observations made over mid-way and lower Basins, the few changes taking place are of the same character as those of the upper Basin.

The last eruption of the important geyser to be observed was on ~~Sept. 27~~ <sup>Impor. Geyser</sup>. There has been no evidence of an eruption since that time. The water in the crater maintains a constant level, and violent boiling takes place over main fissure at regular intervals. The overflow shows no change in volume or velocity.

In a careful survey of the Norris the increase in water supply marks the only noticeable changes in the activity there.



Congress P. 31, a dry steam vent since early summer, has filled with water.

The roar of Black Growler has increased in intensity and a temperature of  $118^{\circ}\text{C}$  recorded there.

The velocity of Tantalus Creek has increased about 5 seconds over a measured 35 ft channel.

The entire hot spring basin is practically devoid of snow.

13" of snow on protected ground not affected by thermal action.

Signed: Allen Hawks.



410  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE  
YELLOWSTONE NATIONAL PARK  
YELLOWSTONE PARK, WYO.

FICE OF THE SUPERINTENDENT

REPORT OF THE  
PARK NATURALIST FOR  
DECEMBER  
1929.

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

YELLOSTONE NATIONAL PARK

YELLOSTONE PARK, WYO.

EFFECTIVE OF THE SUPERINTENDENT

REPORT OF THE

YEAR INSTITUTED FOR

DECEMBER

1939.

## I - Current Operation

### D. Cooperation With Outside Agencies

H80 1. Wiers, Water Gauge, etc.: The wiers on the Mammoth formations have been read regularly each week as part of the work in cooperating with the Geophysical Laboratory. The Water Gauge in the Gardiner River has been read at ten day intervals in cooperating with the U.S. Geological Survey.

H72 2. Geological Specimens, etc.: Geological specimens of sinter, obsidian, etc. have been sent to:

- a. Y.M.C.A., Greenville, S.C.
- b. Geology Department, U. of S. Dakota
- c. A School in Detroit, Mich.

H72 Specimens of available reptiles and amphibians have been sent to Dr. Tanner at the University of Utah. Dr. Tanner has taken a great interest in the amphibians of the park and has kindly consented to name the specimens which we send him.

H90 3. Northern Pacific Railway: A list of the members of the permanent and temporary educational staff has, at the request of Mr. Joffe, been made up, with position, degrees, etc., and sent to the Northern Pacific Railway for purposes of advertising.

### E. Correspondence, etc.:

H90 1. Considerable time has been spent on correspondence with Dr. Bumpus, Dr. Oastler, Mr. Russell and Dr. Jones in regard to plans, etc. After the Park Naturalist returned from Berkeley it was necessary to answer all of the collected correspondence which was not taken care of during his absence. This amounted to approximately twenty-five letters, memoranda, etc. No stenographic assistance was available for this work.

## II - Permanent Projects:

### A. Ranger Naturalist Manual:

H90 Immediately upon the return of the Park Naturalist from Berkeley work was started on the 1930 Ranger Naturalist Manual. The volume will contain the following articles:

1. A Revised List of Yellowstone Birds -- Kensies
2. Ecology as Applied to Nature Guiding --Dr. W.B. McDougal
3. The Coloring of Hot Springs -- Flottman
4. Place Names of Yellowstone Park --Yeager and Joyner  
(It is planned to make as nearly a complete list of the place names as possible, with a paragraph on each telling the location, history of name, etc.)
5. Big Game Animals of the Yellowstone -- Yeager  
(This article is thought advisable inasmuch as there has never been an article written on the habits of our larger mammals.)

H90 In addition to the above there will probably be several shorter articles. Work has already begun on the Place Names and it will undoubtedly occupy most of the time for the next few weeks. One thousand cards have been made out, each containing one place name. The paragraphs for the manual will be typed upon these. It is doubtful if the manual can appear before June or July as the amount of

I - Current Operations

- D. Cooperation With OASIS and ARA  
 Dr. Miles. After some discussion on the matter it was decided to send to the work in good  
 man need less technical than those now in progress. The work is to be done by the  
 best fitting with the capabilities of the organization. The work is to be done by the  
 the higher tier of the few who have had experience in cooperation.  
 2. Geological Specimens  
 Geological specimens of interest, etc. Geological specimens of interest,  
 have been sent to:  
 a. U.S. Geological Survey  
 b. Geological Department, U.S. State  
 c. A School in Detroit, Michigan.
- Specimens of various kinds and descriptions have been sent to:  
 Dr. Turner at the University of Utah. Dr. Turner has taken  
 a great interest in the work and has kindly  
 consequences of which were the same of the specimens which were sent.  
 3. Mortgaged to the government  
 Mortgaged to the government to the first to the members of the permanent  
 and temporary staff of the institution, etc., and sent to the  
 need made up, with position, address, etc., and sent to the  
 Mortgaged to the permanent staff of the institution, etc., and sent to the  
 consequences of which were the same of the specimens which were sent.
- E. Correspondence, etc.:  
 Dr. Gossler has been sent on correspondence with Dr. Barnes,  
 Dr. Osterler, Mr. Russell and Dr. Jones in regard to these, etc.  
 After the first meeting between them Dr. Barnes said it was necessary  
 of answer to it to the corresponding work was not taken  
 care of during his absence. This somewhat of a shock to the  
 care of this work.  
 Dr. Barnes has been sent to the  
 Mortgaged to the permanent staff of the institution, etc., and sent to the  
 consequences of which were the same of the specimens which were sent.

II - Permanent Projects:

- A. Binder Material Project:  
 Immensely about the time of the first meeting from Belknap  
 work was started on the 1930 Binder Material Project. The following  
 will consist the following activities:  
 1. A trip to the Yellowstone Park -- National  
 2. Geological as Applied to Yellowstone Park -- Dr. W.B. Rogers  
 3. The Geology of Hot Springs -- Tolman  
 4. The same to Yellowstone Park -- Tolman and Tolman  
 It is planned to make as nearly a complete trip  
 to the three areas as possible, with a brief stop  
 no road leading to the location of work, etc.  
 5. Big Game Animals to the Yellowstone -- Tolman  
 This trip is planned to include the animals  
 and never need as little work as possible.  
 In addition to the above will be several months  
 work has already begun on the Big Game  
 animals. One  
 month ago a good deal of time for the next few weeks. On  
 the other hand, there is no country in the world to  
 the best suited for the purpose. If it is found  
 that it is better to do the work as quickly as pos-

H90  
typing necessary makes the work very slow.

B. Nature Notes:

The December issue of Nature Notes was mimeographed and 540 were franked on the twentieth of the month. This issue contained seven pages and a cover.

H90  
C. Employee's Information Manual: The manuscript for the Employee's Information Manual has been completed for some time but at the present time it is only about two thirds copied, due to lack of stenographic assistance. It is hoped, however, that some way will be found to complete this in order to get it in the hands of the printer in time for the summer season.

D. Plan of Administration:

H90  
The Plan of Administration for the Educational Department has been revised in the light of suggestions from the Chief Naturalist. Considerable time has been spent in recopying this Manual but it is hoped that within a few days it will be complete.

E. Libraries:

H90  
No additional books have been received during the past month. Information has been obtained from the Library of Congress relative to the already printed cards. It is estimated that it would be cheaper to buy the library cards already printed than to spend the time typing blank cards at this office. Although no books have been received this month, a complete list of those received since May first has been made out.

F. 1930 Ranger Naturalist Staff:

H90  
Several applications have already arrived for positions on the 1930 Ranger Naturalist Staff. Application blanks and form letters have been obtained from the Chief Naturalist and are being sent to the applicants. It is hoped that it will be possible to obtain all of the applications at an earlier date than usual this year, thus avoiding the last minute rush to fill the positions. Several excellent applications are at hand and we hope to obtain the finest staff in 1930 of any that we have had so far.

G. Miscellaneous: #

H90  
All volumes of Nature Notes have been catalogued as to subjects. By this catalogue the duplication of subjects in this publication is more easily avoided.

A set of 57 slides have been picked out and sent to Superintendent Toll for his use during the winter.

H. Personnel:

H90  
From December first to third the Park Naturalist was in Yosemite National Park where he accompanied the conference. From the third to the fifth he was enroute to Seattle. From the fifth to the ninth he took annual leave and arrived in Yellowstone on the tenth. He was on duty until the twenty fifth of the month, when he took leave until January first.

Mr. Joyner has been on duty during the month of December with the exception of two days leave on the 23d and 24th.

Respectfully submitted,

m Toll  
Dorr G. Yeager  
Park Naturalist

tabling necessary makes the work very slow.

B. Letter Notes:

The December issue of Marine Notes was misappropriated and P.O. were unable to find it in the monthly. This issue contained seven pages and a cover.

C. Employee's Information Bureau: The Bureau is responsible for the information and news concerning the Bureau and its work.

It is the Bureau's duty to send copies of our publications to all members of the Bureau, and to keep them up to date, however, there is some difficulty in doing so. It is the Bureau's duty to keep the Bureau informed of the progress of the campaign to stop the summer season.

D. Plan of Administration:

The Plan of Administration for the District Department was prepared by the Bureau of General Services from the Bureau's own needs and the need of the Chief Master-At-Arms. It is the Bureau's duty to consider this plan carefully and to submit it to the Bureau's Commandant.

E. Proprietary:

No individual member need ever buy the Bureau's products unless he has a valid reason to do so. The Bureau's products are not to be sold to anyone who does not need them.

If it is necessary to buy Bureau products, it is the Bureau's duty to buy them from the Bureau's Office. Anybody may buy Bureau products at any time during the year, but they must be used for Bureau purposes. It is the Bureau's duty to see that Bureau products are not sold outside of Bureau hours.

F. 1920 Bureau Information List:

Several subject lists are available for Bureau members to use. These lists are to be used by Bureau members to help them in their work. They are to be used by Bureau members to help them in their work.

If it is necessary to buy Bureau products, it is the Bureau's duty to buy them from the Bureau's Office. Anybody may buy Bureau products at any time during the year, but they must be used for Bureau purposes. It is the Bureau's duty to see that Bureau products are not sold outside of Bureau hours.

G. Misclassifications:

If a letter is misclassified, it is the Bureau's duty to correct it. If a letter is misclassified, it is the Bureau's duty to correct it.

A letter is misclassified if it is sent to the wrong Bureau or if it is sent to the wrong Bureau.

H. Personality:

The December issue of Marine Notes was misappropriated and P.O. were unable to find it in the monthly. This issue contained seven pages and a cover.

Mr. Young was given no duty during the month of December with

absolute authority.

Port G. Yeager

Bureau Master

Report  
of  
Mammoth Hot Springs  
for  
December, 1929

The observation trip was made on snow-shoes, for the snow was 20 inches deep in places with an estimated average depth of 8 inches. The activity this month was marked by an increase in the whole formation with one or two exceptions.

*H80*  
Narrow Gauge Terrace, Cleopatra, Mound, Orange Spring Mound, Hymen Terraces, and New Highland showed no decrease and very little increase. The spring above Devil's Thumb shows a slight increase as does the older portion of Hymen Terraces. Minerva Terrace, White Elephant Back Terrace, and Jupiter Terrace show considerable increase in area of activity, especially the former two. A new spring has broken out at approximately the location of Old Pallette Springs. The Basin to the west of Minerva Spring is filled with water which is supplied by three active springs near its center. Both the older and newer Angel Terraces have almost entirely ceased activity, there being a little ice covering the former vents of both of these springs.

*H60*  
No birds were to be found in Stygian Caves, nor was there any other interesting observations to be made on the wild life. Four deer were the only animals seen.

Jan. 2, 1930

Respectfully submitted  
Newell F. Joyner

7505

10

RECEIVED AT STERLING

11

1961, 10:00 A.M.

YESTERDAY, 10:00 A.M., I WENT TO THE  
O'DELL GARDEN RESTAURANT IN 31ST AND KELLY, TO HAVE  
A MEETING WITH THE DIRECTOR OF THE FILM "THE SEDUCTRESS"  
AND SOME OTHER PEOPLE.

WE HAD DINNER AT O'DELL'S, AND THEN I TALKED WITH  
THE DIRECTOR OF THE FILM, MR. RICHARD HARRIS, AND HIS ASSISTANT,  
MR. ROBERT COOPER. WE HAD A LONG CONVERSATION.  
MR. HARRIS TALKED ABOUT THE PRACTICAL ASPECTS OF  
MAKING A FILM, AND HOW TO GET THE MATERIAL FOR IT.  
HE ALSO TALKED ABOUT THE PROBLEMS OF CASTING AND DIRECTING.  
HE ADVISED ME TO TRY AND GET A COUPLE OF WRITERS TO  
COME UP WITH A STORY, AND THEN HE WOULD TRY TO  
GET SOMEONE TO WRITE A SCREENPLAY BASED ON IT.  
HE ALSO ADVISED ME TO TRY AND GET A COUPLE OF DIRECTORS  
TO COME UP WITH A STORY, AND THEN HE WOULD TRY TO  
GET SOMEONE TO WRITE A SCREENPLAY BASED ON IT.

WE SPENT A LOT OF TIME TALKING, AND I LEARNED A LOT  
ABOUT THE FILM INDUSTRY, AND HOW TO GET INVOLVED IN IT.

DELL, LOS ANGELES, CALIFORNIA

OCT 1, 1961

## 10.- Increasing or Decrease of Travel

The Park is generally closed to travel in December but like last year this month has been very unusual one month. Cars were driven to the mile post on Tower Falls road all month as well as to the eight mile post on the Mammoth to Norris road. Cars were driven on West Yellowstone to Chocolate Pots along Gibbon late as Dec 24<sup>th</sup>. The highway from Gardiner, Mammoth has been free of snow most of the month. Last car to drive to Snake River station from Moran was noted December 4<sup>th</sup>. Travel from Snake River Station to 4 mile post closed on 6<sup>th</sup>. Travel from Livingston to Gardiner has been good and many people ~~were~~<sup>were</sup> driven into the park Dec 29 thereby increasing our pre season total.

The entrance travel as observed and noted by rangers at the northern and western gateways reported as follows

North Gateway.	220 cars.	566 people
West Gateway.	<u>1 "</u>	<u>4 "</u>
Total	221 cars	570 people

The preseason travel to the close of December this year consists of 3871 people traveling in 1342 cars as compared with 2,853 people traveling in 1020 cars last year and 2005 people traveling in 713 cars at the close of December 1927.



5-20

WEATHER CONDITIONS AT MAMMOTH HOT SPRINGS  
December, 1929

*Temperature*

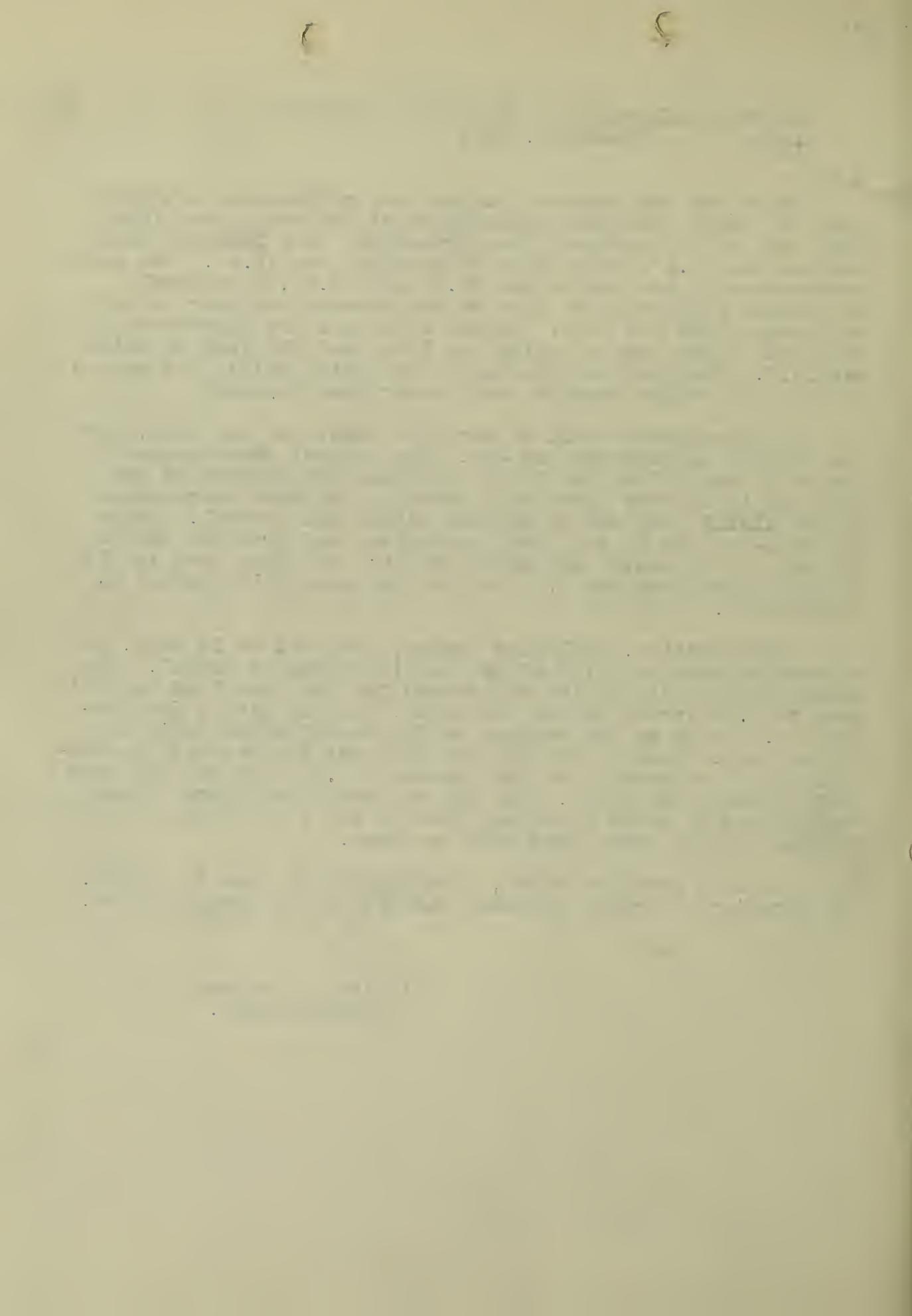
While the mean maximum temperature of December averaged slightly lower, the mean temperature of the month was higher than that of the November just preceding. The December mean minimum was  $19.1^{\circ}$ , while that of November was  $13.4^{\circ}$ . The mean temperature of the months was  $25.9^{\circ}$  and  $23.2^{\circ}$ , respectively. In records going back to 1887 colder Novembers appear in only two years, 1896 and 1911. Warmer Decembers are on record in only four years, one of which was 1896, and the last of which was 1917. The year now closing is the third within the period of record in which December was warmer than November.

The thermometer fell to zero but once,- on the 21st, when the minimum temperature was  $-4^{\circ}$ . The highest temperature of the month was  $47^{\circ}$  on the 14th. The mean temperature of the 21st was 12 degrees lower than normal; the mean temperature of the ~~XXXXX~~ 14th was 21 degrees higher than normal. Every day from the 6th to the 16th, inclusive, and from the 23d to the end of the month, was above normal; all days from the 1st to the 3d and from the 17th to the 21st were below normal in temperature.

Precipitation, excluding traces, occurred on 16 days, and aggregated about a third of an inch in excess of normal. The accumulated precipitation deficiency for the year 1929 was cut down to 3.65 inches during the month, finally giving just exactly 0.01 inch as the average daily precipitation deficiency of the year. Rain on the 9th and 10th was the heaviest precipitation of the month; on this occasion 0.83 inch was recorded in 24 consecutive hours. Had the automatic rain gage, which was retired to avoid freezing, been in use it is possible that a higher figure would have been recorded.

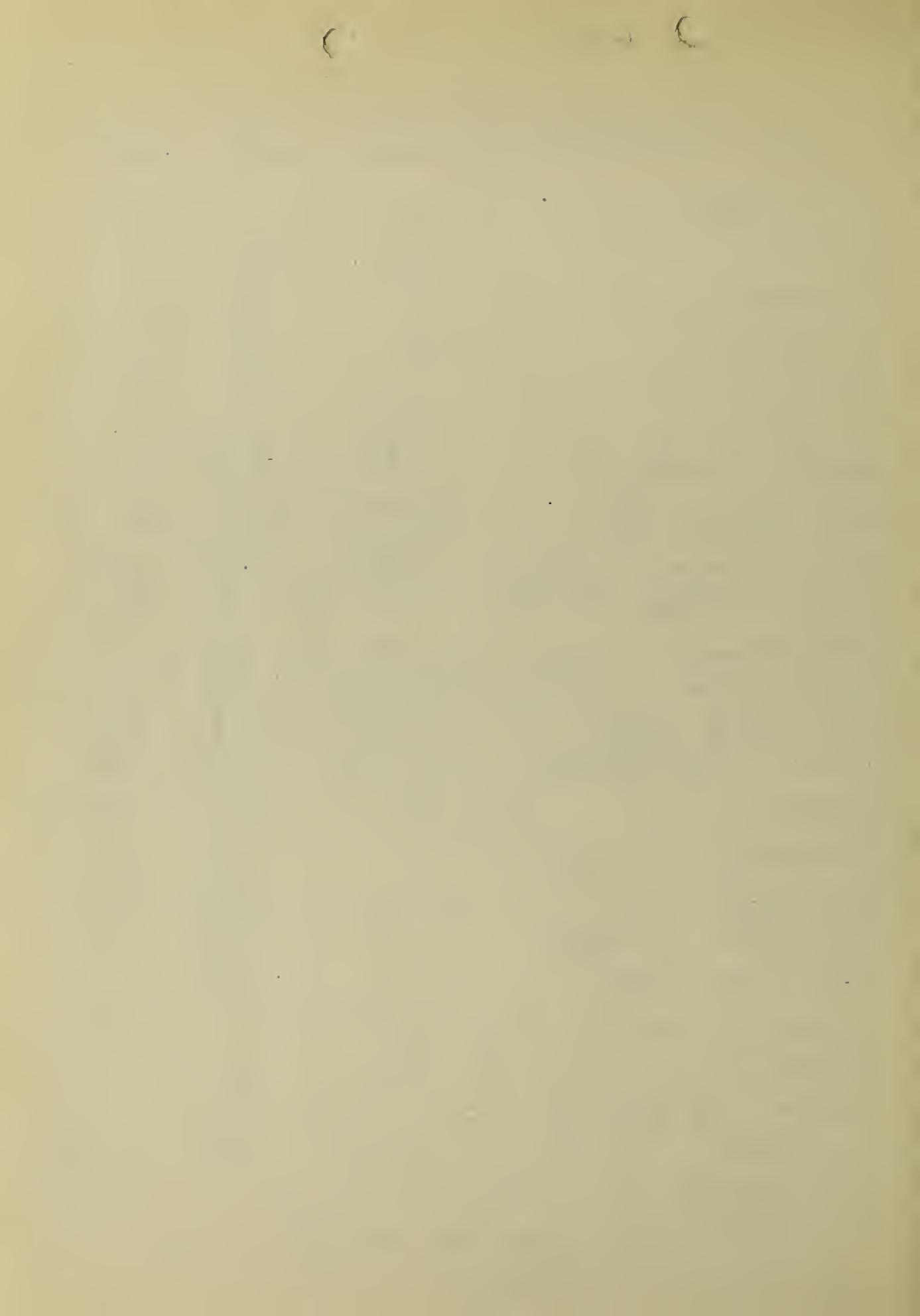
Six days averaged clear, 5 partly cloudy, and 20 cloudy. The duration of bright sunshine was 39% of the possible time.

William T. Lathrop,  
Meteorologist.



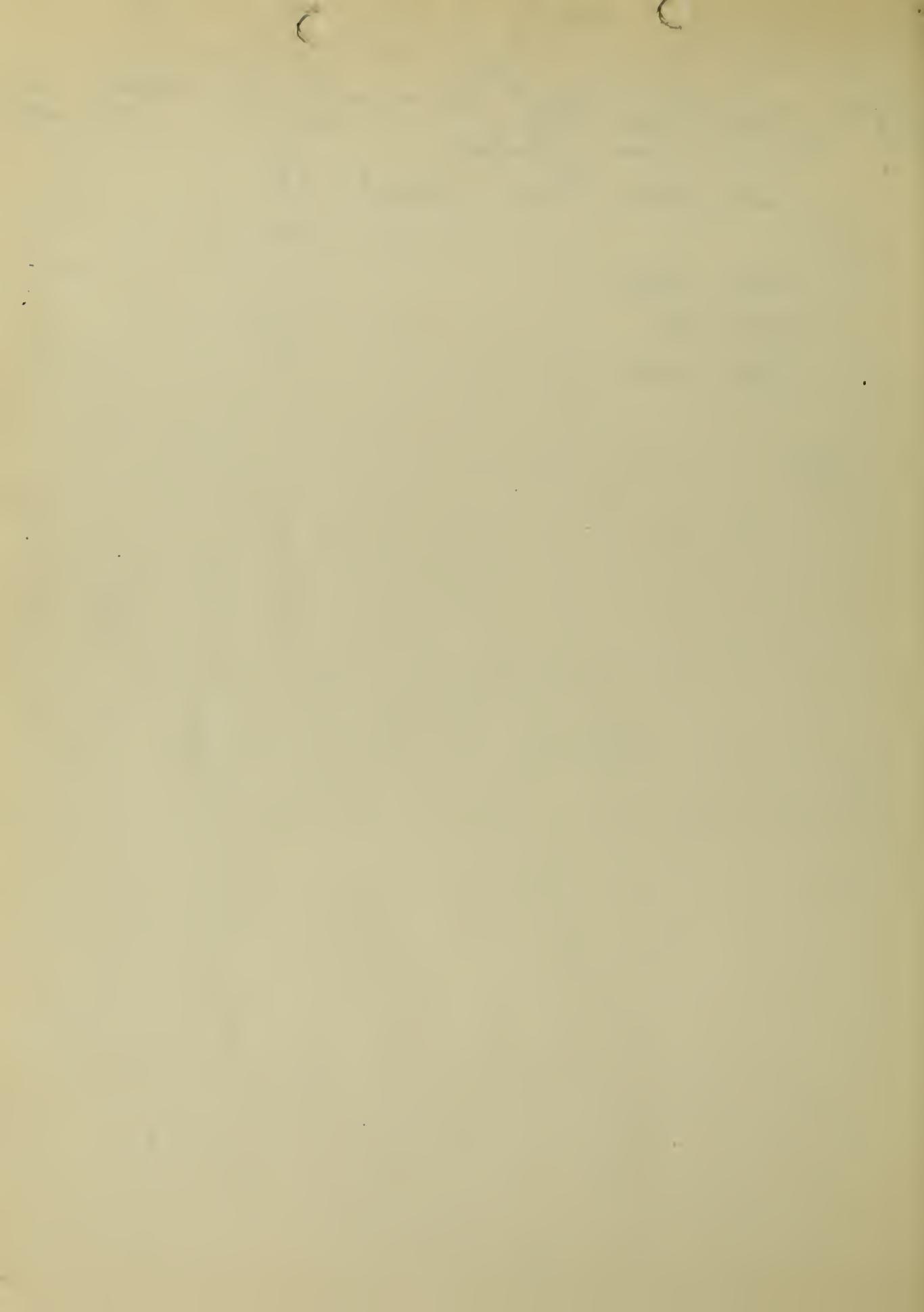
## 521 - Snow Depths

	1927 inches	1928. inches	1929 inches
mammoth.	7.5		4.2
norris.	24.	27	14
Riverside	22	19	10
Gallatin.	17	12	18
Lake.	24.	14	18
Canyon	34	27	20
Buffalo Ranch	18	8.5	6
Cooke Ranger Sta.	28	22	30
norris Canyon Divide	38	33	26
upper Slough Creek.	18	18	13
Hellroaring.	8	18	1.0
Snake River Station. 7 mile post		33.	24 - 4
aster Creek Cabin.	63	42.	38
Sylvan Pass Station	32,	14	18
Brice.		11	24
Thorofare.		19	30
Fox Creek		40	32
Two Ocean Plateau		55	50
Cold Creek Cabin		30	16.
Sportsman Lake			45-
Beebler	54	34	14
Crystal Springs.		24.	16.
Cub Creek.		28.	30
Mint Creek			33
Old Faithful			11
Yellowstone Lake froze over on Dec. 19 as against Dec. 21 last year			



cont

21 - Rangers working in conjunction with Reclamation Service report the following Snow depths and water contents of same in the Southern Dist. taken on December 18 <sup>th</sup>		inches	water contents
Snake River Station.		13	3.
Snake River Road 4 mile post.		28.	6.
" " "	6 11 "	42	8.5
Aster Creek.		41.	8.3
Cascade.		28	6.5
Colter Creek		21.	5.



Police Protection  
Proceedings of the U. S. Commissioner.

Mr William B. Asterly was arrested in  
Bechler River District for killing a bull  
K. Case was tried by Judge Meldrum and  
Asterly was fined \$100.00 and costs.



900-Music -)

# United States Post Office

Second CLASS

Yellowstone Park, Wyo., Jan'y 8, 1930.

Data for December, 1929, monthly Report.

## CHURCH SERVICES:

English Lutheran services were held in the Lodge Room on the evening of Tuesday, December 3d, by Rev. Webster H. Clement.

A Christmas service was held in the Chapel on Sunday evening, December 29, by Rt. Rev. N. H. Fox, Bishop of Montana.

## POST OFFICE:

Nothing special to report.

caf

Month	Cars	Visitors
October	21	61

Total of preseasong Travel by all Gateways as follows

Total Cars. 1342.

Total Visitors. 3871.

As compared with preseasong Travel of 1928.

Total Cars - - . 1020.

Total Visitors - - 2,853

0000 2006 0007 0008

10 Summary of Pre-season Travel by  
Gateways which includes all Travel after Sept 26 - 1929

### North Gateway

	Cars	Visitors
October	496	1408
November	169	372
December	220	566
Total	885	2346

### West Gateway

	Cars	Visitors
October	375	1250
November	60	210
December	1	4
Total	436	1464

### East Gateway

Closed for Road Construction on Sept 20

### South Gateway

	Cars	Visitors
October	21	61

Total of preseasong Travel by all Gateways is  
as follows

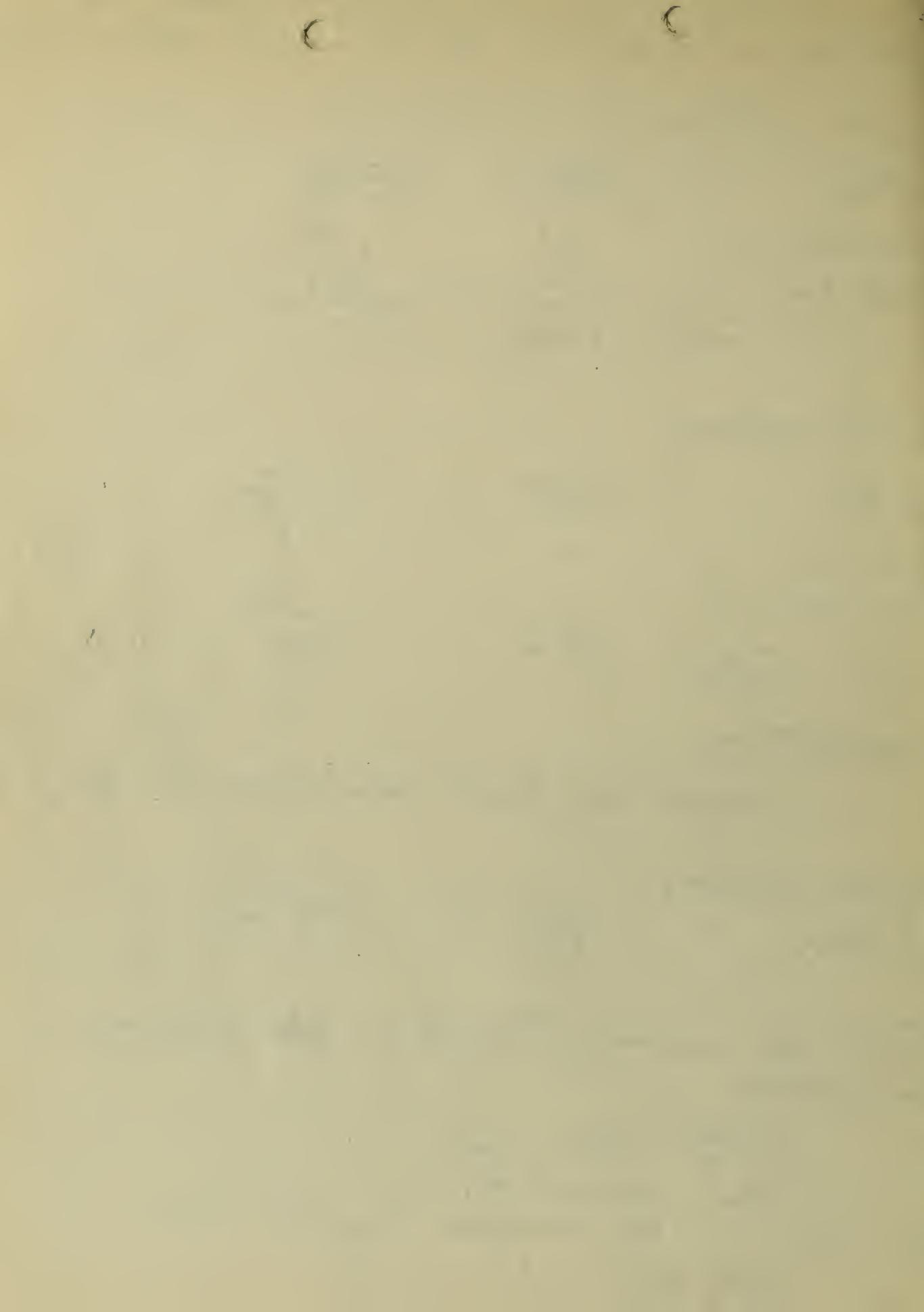
Total Cars. 1342.

Total Visitors 3871.

As compared with preseasong Travel of 1928

Total Cars - - 1020

Total Visitors - - 2,853



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## MONTHLY METEOROLOGICAL SUMMARY.

Station, Yellowstone Park, Wyo., month, December, 1929.

Date.	TEMPERATURE. (Degrees Fahrenheit.)			Precipita- tion. (In inches and hundredths.)	Character of day.	% Possi- ble Sun- shine	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)									
	Max.	Min.	Mean.				Mean	30.17	highest	30.70	date	3	lowest	29.56	date	6
22	42	4	15	.01	Clear	.97										
25	25	2	14	0	Clear	100										
34	34	9	22	0	Clear	100										
17	17	17	27	0	Clear	.93										
35	35	11	23	T.	Pt. Clry	64										
34	34	20	27	.11	Cloudy	.57										
32	32	22	27	.01	Cloudy	0										
36	36	22	29	.03	Cloudy	2										
59	36	58	58	.30	Cloudy	0										
42	58	40	40	.70	Cloudy	0										
42	34	34	38	.08	Cloudy	0										
40	34	32	37	.06	Cloudy	0										
44	18	41	41	.07	Cloudy	0										
47	59	43	43	0	Pt. Clry	.76										
46	58	42	42	0	Cloudy	0										
41	17	22	22	.36	Cloudy	0										
26	9	18	18	T.	Cloudy	.47										
19	4	12	12	0	Cloudy	.24										
23	9	16	16	.04	Cloudy	2										
21	1	11	11	.02	Pt. Clry	.66										
19	-4	8	8	0	Cloudy	.37										
25	14	20	20	0	Clear	.21										
29	20	24	24	.01	Cloudy	3										
32	24	28	28	.01	Cloudy	0										
34	26	30	30	T.	Cloudy	0										
31	19	25	25	0	Pt. Clry	.65										
26	20	23	23	T.	Cloudy	0										
31	19	25	25	T.	Cloudy	.6										
36	18	27	27	0	Clear	100										
35	24	30	30	.02	Cloudy	0										
30	9	20	20	.01	Pt. Clry	.59										
Lean	32.7	19.1	25.9	1.84	Total											

NOTE.—"T" indicates trace of precipitation.

In the autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.

\* Local Mean Time.

William T. Lathrop,

Weather Bureau

U. S. DEPARTMENT OF AGRICULTURE,

WEATHER BUREAU.

## METEOROLOGICAL SUMMARY.

MONTHLY

STATION

MONTH

, 19

8-1680

REPORT FOR DECEMBER 1929.

The construction work on the Mammoth-Norris project during December consisted in steam shovel excavation and hauling by truck to build the fill in front of Mammoth Lodge. At the first of the month the shovel was located at the crest of the hill where the old exit road from the Lodge enters the main road and was engaged in demolishing the old concrete flume leading part way around Capitol hill.

After this excavation was completed the shovel was moved to the sharp turn at the beginning of the formation loop road. Here the road was widened a maximum of eleven feet from the ditch line and the shovel was moved successively to the third, first, and second blind turns above the water reservoir; each bank being rounded off about eleven feet in the center of the cut and the material used for embankment in front of the Lodge. Then the shovel was moved to the sharp turn at the one-mile post, and this turn was cut back and the excavation used close at hand in filling about the curve.

This completed widening the turns and increasing the visibility of the road leading past the formation. The shovel was then placed at the knoll near the south west corner of Mammoth Lodge and part of this excavated for a parking space. A side road was constructed leading down from the new road and connecting with the old one past the swimming pool. The work was carried as far as weather conditions would permit at this time of year but due to the frozen condition of the ground the finishing will have to be done in the spring.

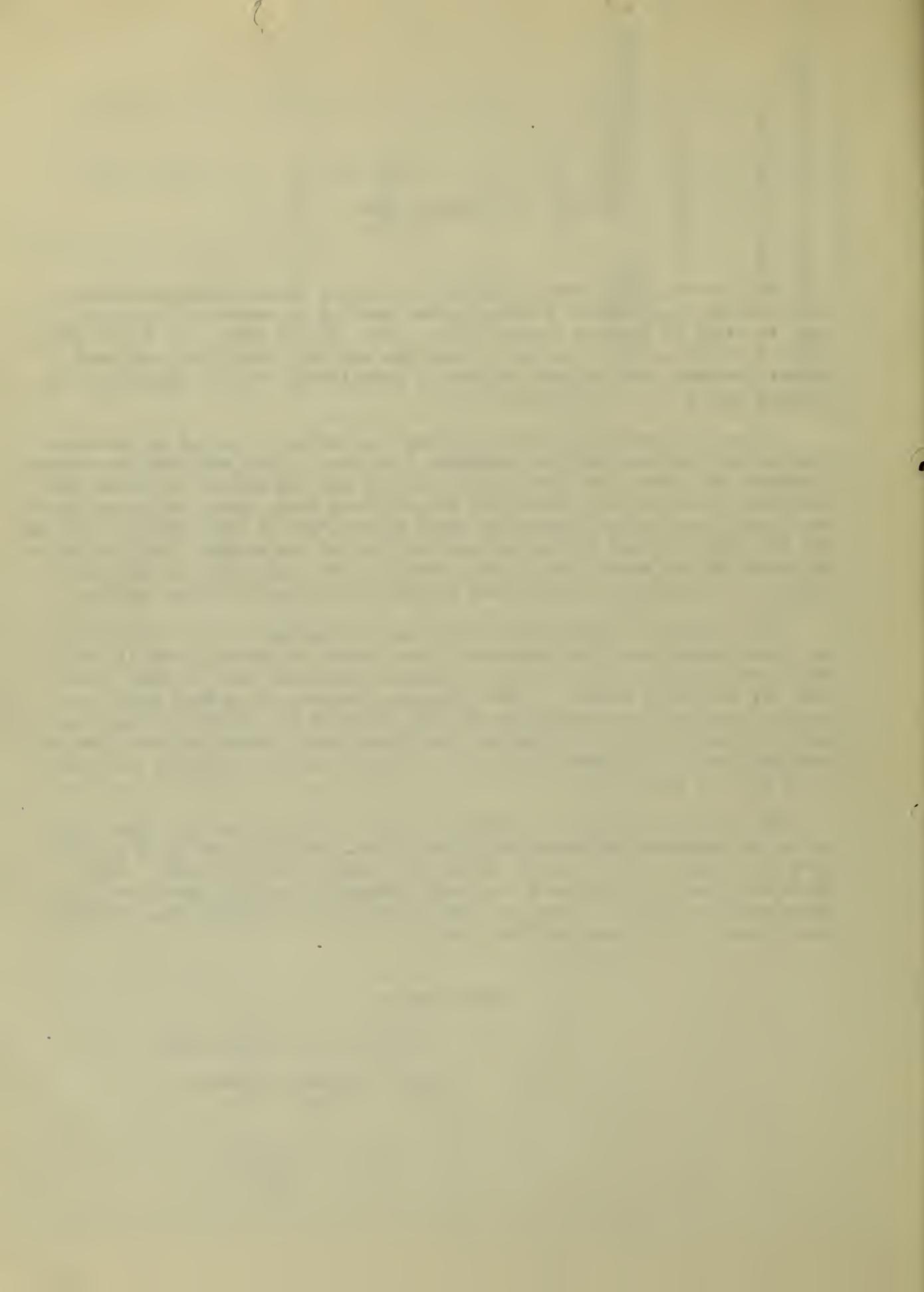
The crew consisted of a foreman, shovel operator, and six other men, while the equipment included the steam shovel, two F W D trucks and three Ford dump trucks with drivers, and an oil truck to supply water. The Fords were used on other work at times. Yardage moved this month was 1107 cubic yards of fill in place and 3406 cubic yards of excavation. The work was closed down on December 27th. 1929.

Submitted by

Lloyd C Regnell

Ass't Resident Engineer

1107  
3406  
4513



## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

National Park for the Month of

*December*

	This Month	This Month	Increase	Percent Increase
	Last Year			

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 . . . . .	4072	4574	- 502	
Peak load in calls per day . . . . .	266	223	43	

Receipts from measured service calls . . . . .				
Receipts from coin boxes . . . . .				
Receipts from telephone rental . . . . .				

## TOTAL RECEIPTS

LONG DISTANCE BUSINESS

No. Outbound calls . . . . .	31	54	- 23	
No. Inbound calls . . . . .	79	75	4	

## TOTAL LONG DISTANCE CALLS

Peak load in calls per day . . . . .	8	11	- 3	
Receipts from Long Distance business . . . . .	47.60			

TELEGRAPH BUSINESS

Messages via Western Union . . . . .				
Messages via . . . . .				
TOTAL MESSAGES				

Receipts from telegraph business . . . . .				
No. of money transfer messages . . . . .				
No. of money transfer receipts . . . . .				

TOTAL RECEIPTS TELEPHONE &amp; TELEGRAPH DEPT-

UNITED STATES

50-14

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

BUREAU OF SURVEYING AND MAPPING BUREAU

RECEIVED - APRIL 26 1947 FOR THE NATIONAL PARK SERVICE

STATE	NAME	TYPE	DATE
WYOMING	GRANGE	1000	1947
WYOMING	GRANGE	1000	1947
WYOMING	GRANGE	1000	1947

MAPS PUBLISHED

DESIGNATION: WYOMING  
DESCRIPTION: STATE MAP  
SHEET NUMBER: 1  
SCALE: 1:250,000  
DATE: APRIL 26, 1947  
PUBLISHER: U.S. GOVERNMENT  
PRINTING OFFICE  
PRINTED IN U.S.A.  
BY: U.S. GOVERNMENT

MAPS PUBLISHED  
BY: U.S. GOVERNMENT  
PRINTING OFFICE  
PRINTED IN U.S.A.  
BY: U.S. GOVERNMENT

MAPS PUBLISHED

MAPS PUBLISHED

MAPS PUBLISHED  
BY: U.S. GOVERNMENT  
PRINTING OFFICE  
PRINTED IN U.S.A.  
BY: U.S. GOVERNMENT

TOTAL STATE DISTANCE METERS

TOTAL STATE DISTANCE METERS  
BY: U.S. GOVERNMENT  
PRINTING OFFICE  
PRINTED IN U.S.A.  
BY: U.S. GOVERNMENT

TOTAL STATE DISTANCE METERS

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BY: U.S. GOVERNMENT

MAPS PUBLISHED

MAPS PUBLISHED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

T R A V E L      R E P O R T

*Yellowstone* National Park for the Month of *December 1928*

	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, . . . . .	221 - 1218 - 82 - 941 - 237 - 24
Cars reentry, . . . . .	124                    36 - 88 - 244.4
Motorcycles, . . . . .	0                    3 - 3.
Total motor vehicles, . . .	<u>221 - 1342 - 82 - 1020 -</u>
Persons entering via motor vehicles, . . . . .	<u>570 - 3871 - 163 - 2853 - 1018 - 39</u>
Persons entering via other private transportation, . . . . .	
Total persons entering via private transportation, . . .	<u>570 - 3871 - 163 - 2853 - 1018 - 39</u>

OTHER TRANSPORTATION:

Persons entering via stages, . . .	
Persons entering via trains, . . .	
Persons entering otherwise, . . . . .	
Total other transportation, . . .	<u>570 - 3871 - 163 - 2853 - 1018 - 39</u>
<u>GRAND TOTAL ALL VISITORS, . . .</u>	

	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

National Park Service Monthly Report

Number   Period	Year													

## PRIVATE TRANSPORTATION:

Air - 72 - 198 - 89 - 151 - 152

Bus - 98 - 34 - 154

Car - 8 - 3

Motorcycle - 103 - 153

Train - 101 - 154 - 155 - 156

Total motor vehicles

Passenger carrying via motor

Passenger carrying via other

Total passenger carrying via

## OTHER TRANSPORTATION:

Passenger carrying via air

Passenger carrying via rail

Passenger carrying otherwise

Total other transportation

## GRAND TOTAL ALL VISITORS:

Number   Period	Year						

Yellowstone Park Wyo.  
January 1st, 1930

WORK REPORT FOR DECEMBER 1929

Garrage .

Put in wireing and connected up new emery wheel grinder.

Mr. Lords Qts,

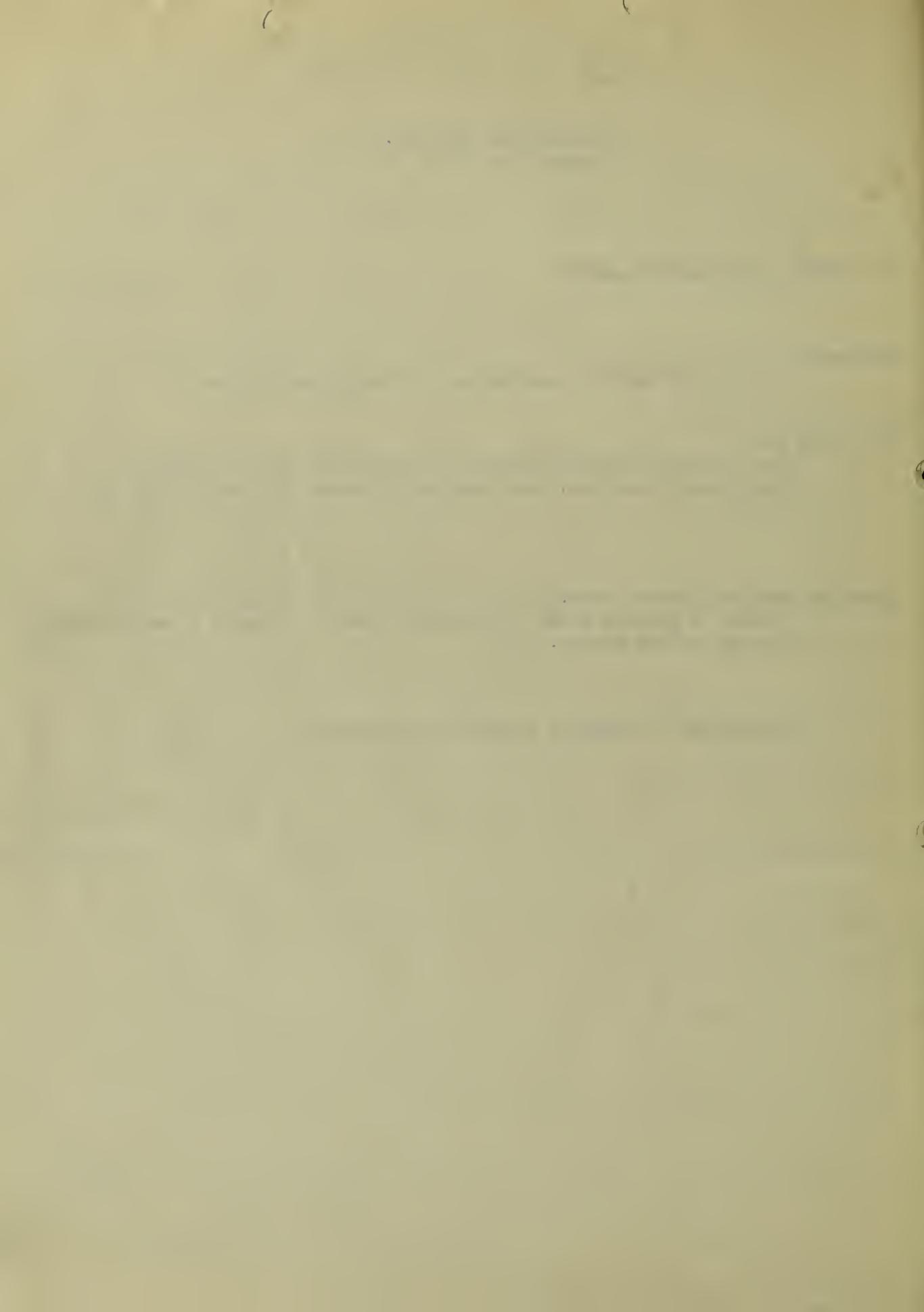
One additional circuit strung in, several additional lights & base plugs installed. also hung new fixtures in living & dining rooms.

Blanding ranch on Jardine road.

Strung in service wires & installed phone for Rangers & Game wardens during hunting season.

Electrical & Telephone maintenance as usual.

C. D. Dale



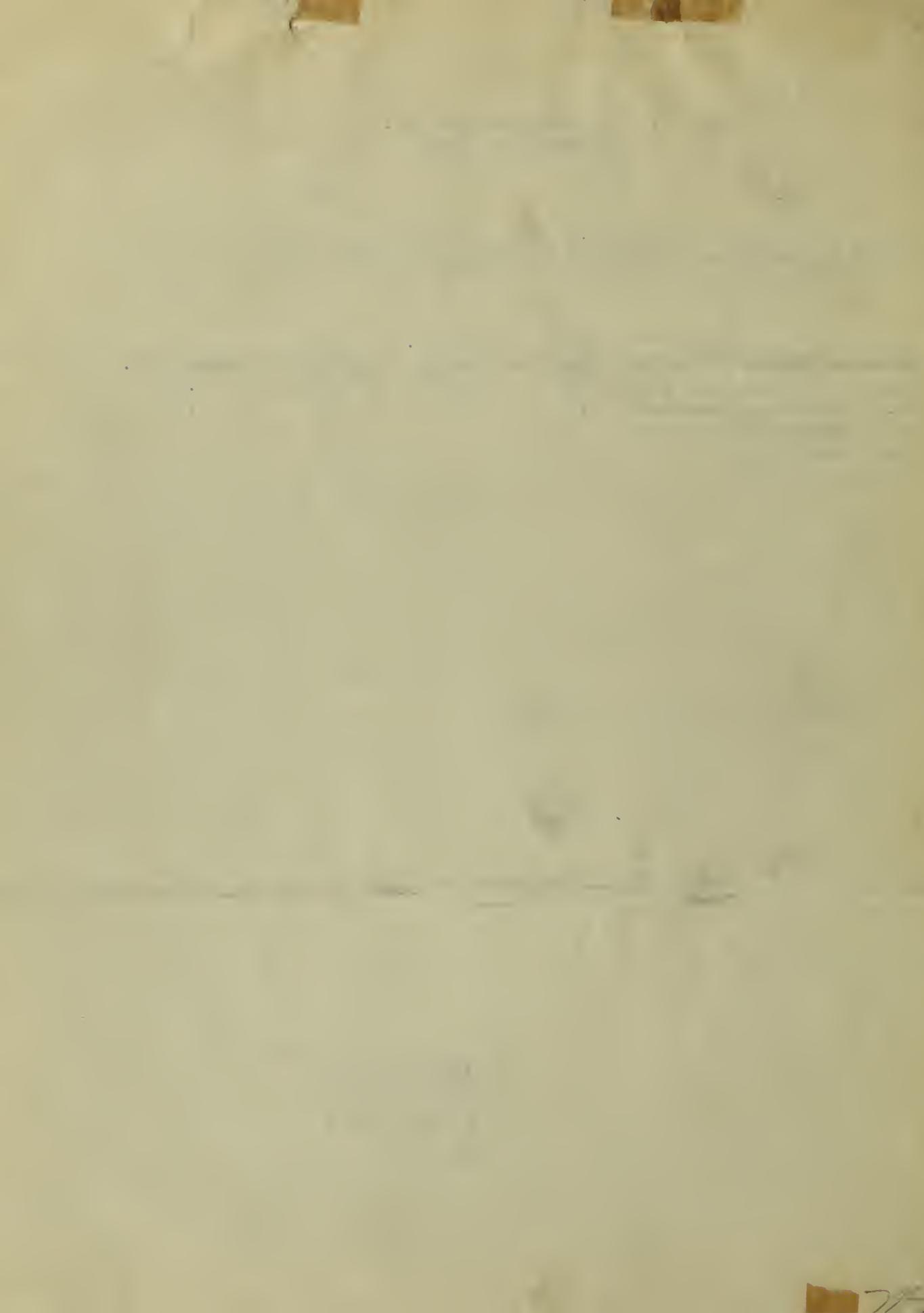
Yellowstone Park Wyo.  
January 1st, 1930

REPORT OF ELECTRICAL & TELEPHONE BUSINESS FOR DECEMBER 1929

<u>Miles of circuit maintained</u>	<u>This Month</u>	<u>This Mo.</u>	<u>Last Yr.</u>	<u>Increase</u>	<u>Percent Inc.</u>
Miles of circuit maintained	528		498	30	.06
No. of telephones connected	161		151	10	.065
No. of measured service calls					
No. of other calls					
Peak load in calls					

C. D. Dale

YELLOWSTONE  
NATIONAL PARK  
LIBRARY  
4630











DIETER  
BINDS  
BETTER

