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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

✓	OY	✓
	JOHNSON	
✓	JOFFE	
	SOLLE	✓
	ACBTT	
	SHO	
	QUIST	
	SOMERILL	
✓	BAUER	✓
✓	BARROWS	MS
	E. LIOTT	✓
	EVANS	✓
	CHAPMAN	✓
	WOHLBRANDT	✓
	ROBINSON	✓

FILE NO. 207-02,3

YELLOWSTONE NATIONAL PARK

MONTHLY REPORT

For

DECEMBER

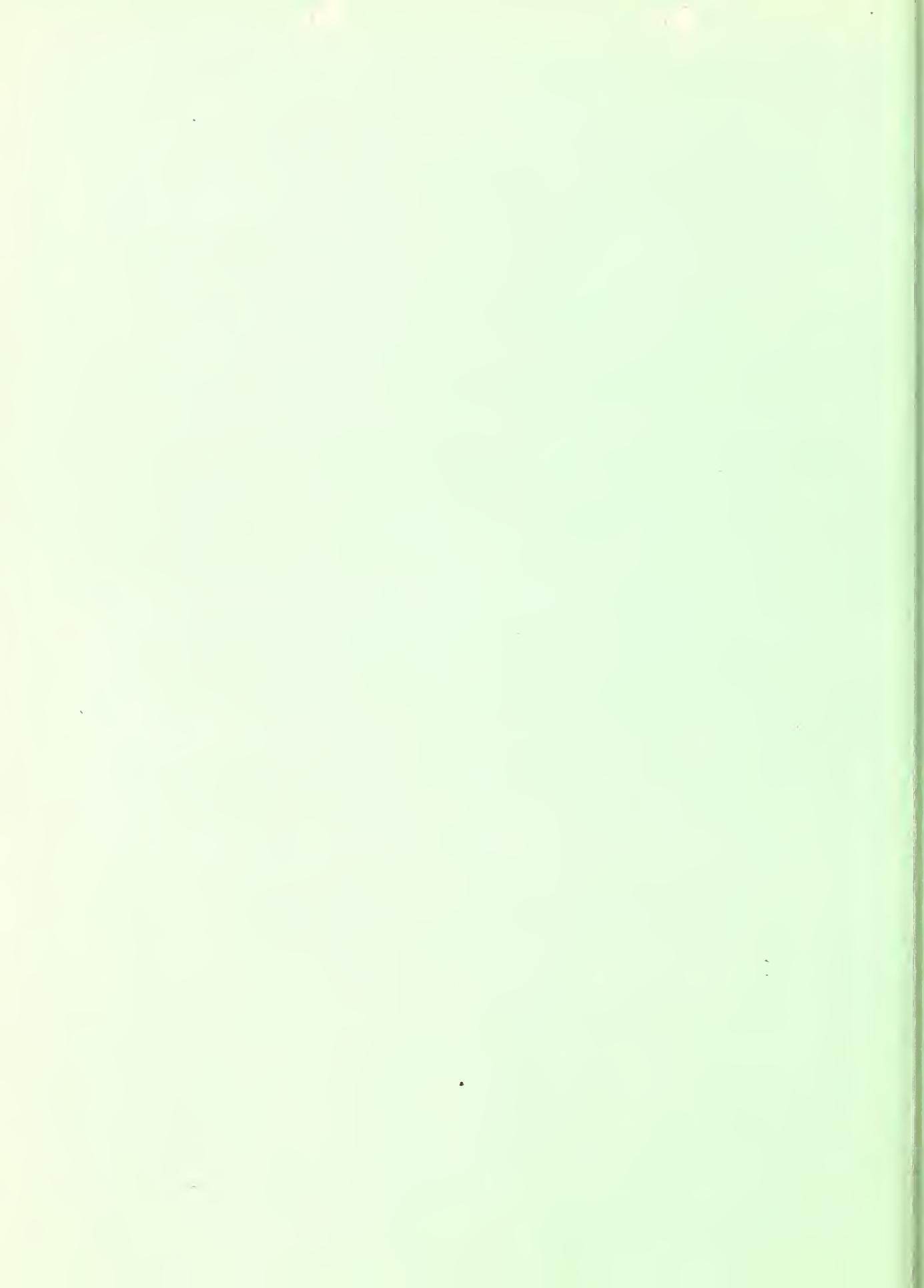
1944

IMPORTANT

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NEWTON B. DRURY,

Director.



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

OFFICE OF THE SUPERINTENDENT

January 4, 1943.

MEMORANDUM for the Director

Following is the report of activities for Yellowstone National Park for the month of December 1942:

Weather Conditions. The weather during the month was similar to that of December a year ago--relatively mild with very little precipitation. Only two sub-zero temperatures were recorded, -16° below on the 23rd and 5° below on the 25th, and the light snowfall did not require much opening of roads around Mammoth or between Mammoth and Gardiner and Mammoth and Cooke. The latter section of highway was kept open throughout the month for the benefit of Cooke residents. Cars were driven to Old Faithful and West Yellowstone on the 19th.

Total precipitation for the month was .14 inch, as against .55 inch a year ago and 1.15 inches in December 1942. The mean precipitation for December is 1.13 inches. The maximum temperature for December was 42° on the first and the minimum -16° on the 23rd. There were 13 clear days, 1 partly cloudy and 11 cloudy days during the month.

Snow depths for most points in the interior of the park increased considerably during the month. A comparison of snow depths for the past 3 years at some of the points in the park at the end of the year were as follows:

COMPARATIVE SNOW DEPTHS 1940-42

	1940	1941	1942	1943	1944
Bechler River	44"	33"	-	26"	47"
Buffalo Ranch	-	6.5"	16"	6"	11"
Cascade Creek	64"	-	-	20"	60"
Galatin	-	10"	20"	8"	1."
Madison Junction	20"	16"	-	10"	15"
Mammoth	-	3"	10"	4"	7"
Northeast Entrance	-	23"	33"	11"	21"
Old Faithful	-	22"	52"	11"	20"
Sportsman's Lake	15"	-	-	-	-
West Yellowstone	24"	20"	47"	12"	21"
Tower Falls	-	10"	20"	7.7"	10.5"
Lake	-	-	-	16"	15"
Snake River	41"	22"	-	22"	35"

UNITED STATES
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NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONING PARK, WYO.

OFFICE OF THE SUPERINTENDENT

Special Activities. Superintendent Rogers departed by Government car on December 8 for Denver, where he will be on official business and annual leave until the first week in January when he is due to go to Omaha for a meeting of Region Two Superintendents starting January 6. Assistant superintendent Johnston was acting in his absence. Acting Superintendent Johnston attended a meeting of the Stream Pollution Committee of the Bear Creek Conservation Committee in Livingston on December 9 with Chief Ranger Barrows and went to Billings on December 15 to attend a meeting of the Yellowstone River Compact Committee, returning to headquarters on the 17th. Assistant to the Superintendent Joffe was acting during his absence. Messrs. Brodrick, Joffe, Evans, Barrows and Robinson attended a meeting of the Park County Rod and Gun Club in Livingston on the evening of December 21. Mr. Brodrick showed a reel of Yellowstone movies as the feature of the program.

Clerk William E. Reeve departed on December 10 for Bryant, California, to which location he was transferred for service with the Bureau of Reclamation. Charles C. White arrived in the park on December 11 and entered on duty as a park ranger the following day. Local right entered on duty as a relief telephone operator on the 14th.

Several employees received their induction orders during the month and deferments were requested in some cases. District Ranger Hugh A. Albert was deferred because of his age. It is expected that 5 or 6 members of our organization will be inducted into the armed forces next month.

Holiday activities carried on in the park were similar to that of a year ago. A committee consisting of Al Elliott, chairman, William Right, Harold Brodrick, Mrs. Dick White, Mrs. George McCullin and Mrs. Sally Macabeer was appointed to arrange the Christmas program. A Christmas program put on by the Mammoth school children was held in the Vantzen on December 22 when Santa Claus made his appearance and distributed candy, nuts, oranges and other goodies to the children. The Sunday School classes held a special program in the Mammoth Chapel on Sunday morning, December 24. The school was closed for the holidays from December 22 to January 2. All employees whose services could be spared were excused from 3 to 5 p.m. on December 23, in accordance with instructions received from the Region Two Office.

The Sixth War Loan drive officially closed on December 16 but the park was credited with all sales made during December and with pay roll deductions for the month. The park acted again as a unit of the state of Wyoming in this drive and despite a large quota of \$25,000, was the first unit in the state to go over the top. The park finished the drive with sales totaling \$41,515.62, \$23,411.62 of which was credited to individual sales. The total sales were 180% of the quota. The Interdepartmental quota for the park, \$7,061.85, which was 35% of the September pay roll, was exceeded, the park finishing with sales totaling \$8,218.62, or 116.58% of the quota.

An additional check for \$202.00 was received from Mr. Hamilton, park operator, for the purchase of a Hammond organ for the Mammoth Chapel. Mr. and Mrs. Hamilton were married in this chapel on September 20, 1940 and

and the rest of the country in general, although it is now too little and
too far away to be of much value. The old buildings are
all gone, so that there is nothing left but the stone walls which
are still standing, and the trees which have grown up around them. The entire village
is now a desolate waste, and there is not even a single house
left. The houses themselves are now broken and ruined, and the
people who used to live here have all moved away. The
village is now a silent, desolate place, with only the sound of the waves
and the wind through the trees.

to provide a sufficient number of tests for either the
adult or the larval stages of the organism to be identified.

Mr. Hamilton has donated \$1,792 for the purchase of the organ in the year of his 25th wedding anniversary. An order has been placed for the organ and delivery is expected in time for special winter services.

Inspections. Dr. A. H. Quortrup, in charge, Bear River Wildlife Research Station, Fish and Wildlife Service, Brigham, Utah, in December for study of buffalo disease, departed December 19 via west; Lt. Col. Frank B. Queen, Bushnell General Hospital, Brigham, Utah, in December 1 to assist Dr. Quortrup in brucellosis studies, out 13th.

Plans, Maps and Surveys. The Project Construction Program was revised, separating the priority list for "Minor Roads" from that of "Physical Improvements." Some time was also spent on the new road maintenance program.

General Publicity. No press releases or pictures were sent out from the park during the month.

Road Maintenance. Maintenance for the month was very light, consisting chiefly of patrol operations to remove loose rocks from the road surface. Mountain sheep inhabiting the north end of Mt. Verts loosen large quantities of rock which roll to the road and make it necessary to patrol this section once and sometimes twice daily.

The new disc sand spreader was used two or three times during the month and has proven to be a great labor and material saver.

Considerable snow fall on December 20, making it necessary to operate the snowplows. The snow varied from approximately 5 inches at the south to 12 inches at Cooke. The push type plows were used.

There were no serious road maintenance problems during the past year. There was a shortage of labor but the season was unusually low and no serious forest fires interrupted the road maintenance operations. All road sections are in fair shape, but the bituminous surface is raveling on the shoulders in a great many places and the earth shoulders need reshaping. One guard rail was replaced in the Canyon area and on the east entrance road, but there remain large quantities that are falling from their own weight.

About two miles of the Gallatin section were stabilized and are ready for bituminous mat.

Maintenance of minor roads has been somewhat neglected, as efforts were concentrated on the higher standard major road sections which receive the heaviest travel.

Other Maintenance. Routine maintenance on buildings was carried on at Mammoth by the carpenters, painters and plumbers.

Park Operators. Mr. J. C. Maynes visited the park from December 6 to 10 and made another trip to the park on the 31st. The general store at Mammoth remained open throughout the month to take care of local residents.

卷之三

to be a small number but
not to be too large for (1) so
that the number of nodes
is not too large for (2) but not to
be too small for (3).

1947 年 10 月 2 日，蘇聯軍隊在烏蘇里江上空飛行，並向我軍發射子彈。

and the other two were the same as the first, except that the last one was a little shorter.

The author wishes to thank Dr. G. E. Moore for his valuable criticisms.

在這一個月的時間裏，我們已經有了一個初步的了解，對於我們的問題，我們已經有了初步的瞭解。

Museum Activities and Exhibits. Chief Park Naturalist Sauer was on annual leave from December 5 to the end of the month. Mr. Naturalist Rock continued work on the checking of catalogue cards and the items in the museum storage. Mr. Brodrick exhibited the 1600 foot film "Tour Around Yellowstone National Park" at a meeting of the Park County Rod and Gun Club at Livingston on December 21, at which about 435 people were present. The Rotary and Kiwanis Clubs and the general public were invited to the meeting.

Research and Observations. The copying of the manuscript by the late Professor James H. Hamilton on "The History of Yellowstone National Park" was completed during the month.

Increase or Decrease in Travel. Two hundred thirty-two persons entered the park during December as compared with 151 for the same month in 1943. The total persons entering the park for the travel year is 4,617 as compared to 3,071 persons for 1943, an increase of 48.9 per cent.

Ninety cars entered the park in December as compared with 52 for the same month in 1943. The total cars for this travel year is 1,416, as compared to 987 for 1943, an increase of 43.4 per cent.

Ranger Service. An intensive night patrol has been maintained along Highway 191 in the Gallatin area. No violations occurred, probably as a result of the patrol.

Night rangers assisted Dr. Quortrup, of the Fish and Wildlife Service, in collecting five bison for study purposes on December 10. The carcasses were skinned and split by the rangers for disposal to the Crow Indian Agency.

Although hunting conditions along the north line were not very good, quite a number of hunters were out and a constant patrol was necessary.

Police Protection. No violations occurred during December. U. S. Commissioner T. Paul Wilcox was absent from the park throughout the month on annual leave.

Wildlife Administration. Deer. The apparent decrease in the number of deer seen in the park continues to be a subject of concern. A patrol from Tower Falls to Little Cottonwood, Hellroaring and Slough Creek did not reveal a single animal, although one buck, three does and one fawn have frequented the area near the Tower Falls Ranger Station. A mature deer was killed by coyotes near the mouth of the Lamar River about December 10. Rangers were unable to find any deer sign in the Lamar District in areas where several favorable areas formerly provided winter range for small herds of these animals. Very few deer were seen in the vicinity of Lower Blacktail and nearly all of the deer actually seen were found in the lower parts of the Mammoth District and even here they do not seem to be present in large numbers. Only nine deer are known to frequent the Madison area and none was seen between there and Madison Junction in areas where approximately 100 of these animals were found during the winter of 1934-35. Light snow conditions over the northern winter range make it undesirable to take a complete census at this time.

Bighorn. Some preliminary distribution studies of the bighorn were made in late December. A total of 91 bighorns, consisting of 25 rams, 49 ewes, and 17 lambs, was counted. In the Lower Falls District, one small band of 7 bighorns, consisting of 1 young ram, 3 mature ewes, and 3 lambs frequented the east bank of the Yellowstone River in the vicinity of Junction Butte. Another band of 25, consisting of 4 old rams, 19 ewes and yearlings, and 6 lambs, was seen on the east bank of the Yellowstone River opposite Tower Falls. Dr. E. H. Quortrup noted that one lamb near near the lower Gardiner River appeared to be suffering from verminous pneumonia, but efforts to secure the animal for examination were unsuccessful.

Bison. Dr. E. H. Quortrup, of the Bear River Wildlife Disease Research Station, arrived in the park on December 2 and left on December 19. During his stay he collected bison body discharges in the Pelican, Mountain, Hayden Valley, and Lamar areas. On December 18, five bison (one bull and four cows) were killed in the Horseshoe area to supply material needed by Dr. Quortrup. Two cows gave a positive reaction to the brucellosis test and one cow was classified as a suspect. Certain viscera material and two hides were taken by Dr. Quortrup and the meat and three hides were turned over to the Crow Indian Agency which sent a truck to the park for these products. Dr. Quortrup spent considerable time reviewing park records of bison and in gathering information regarding the range and migrations of these animals. A record of shipments of live bison was compiled and a copy furnished to Dr. Quortrup.

Range Utilization. Snow depths over the winter range varied from 1 inch on some of the higher slopes with northern exposures to no snow on large areas having a southern exposure. The average snow depth on the winter range was about 7 inches during the month. The snow was loose and granulated so that abundant forage was available to all grazing animals using the range. This made for excellent distribution of the animals and nearly ideal utilization of forage. Forage utilization consisted almost entirely of grazing on the abundant grasses and browsing was largely confined to rabbitbrush. There was no important browsing on aspen, willows, or conifers.

Elk. The elk remained well distributed over the higher and middle parts of the winter range and no marked migrations to lower ranges or areas outside the park occurred. The animals remained in comparatively small bands and made little use of the lower parts of the range inside the park. Conditions were observed to be similar to those of a year ago when snow depths were also considerably below normal.

Hunting Season. Gallatin Area: A complete report covering the hunting season on the Gallatin area shows that 52 deer were taken by the time the season closed on November 15 and that 1,62 elk were taken through December 1. The desired kill had previously been set at 700 elk so that the goal was practically attained.

Park County: The lack of snow and the availability of abundant forage in the park were responsible for the poor hunting conditions north of the park boundary. Most of the elk taken during December were killed near the head of Crovice Gulch and consisted mostly of bulls. It is estimated that approximately 100 elk from the Northern Yellowstone herd have been taken by hunters this season.

... aperçus de l'ordre des choses et de la nature. Il est alors que l'ordre de l'univers devient tout à fait évident. C'est alors que l'ordre de l'univers devient tout à fait évident. C'est alors que l'ordre de l'univers devient tout à fait évident.

the first time in the history of our country, that the
people of the United States have been compelled to
resort to such a course as that which has been adopted
by the Legislature of the State of Missouri, to prevent
the slaves from being taken away from their masters.
The Legislature of the State of Missouri, in their
attempt to sustain the Slaveholders, have done a
great wrong to the slaves, and have violated the
Constitution of the United States.

Idaho, Fremont County: The open season on elk in Fremont County, Idaho produced a kill of 24 cows, 25 bulls, and 5 calves. This season closed on December 15.

Building Fire Protection. The various organized crews which form the Mammoth Fire Department were given training during the month and a new schedule of week-end and night duty was put into effect. All large fire ladders were reconditioned and refinished by Protection Division personnel.

Accidents. Two minor automobile accidents occurred during December.

Miscellaneous. The regular monthly meeting of Federal employees Union No. 165 was held in the canteen on December 4. It was the farewell meeting for William H. Reeve, President, who transferred on December 15 to the Bureau of Reclamation, Friant, California.

A son was born to Accounting Clerk and Mrs. Leroy L. Van Dott at the Holy Cross Hospital, Salt Lake City, Utah, on December 9. The new arrival was named Mark Leroy.

Lt. (j.g.) Earl M. Lemingson, U. S. Coast Guard, former District Park Ranger, visited the park from December 6 to 9. First Lt. Francis J. Laoue, former Chief Ranger, visited the park with Mrs. Laoue on December 23 and 24.

Fred T. Johnston,
Acting Superintendent.

cc- Region Two
File (2)
JJ/san

，這就是說，我沒有聽錯吧？

其後又復有此種之說，蓋謂人之氣血，既非全屬陰陽，則其生化之理，亦當有別於陰陽。故曰：「人之生也，陽氣生於陰，陰氣生於陽。」

கால்வாய் குறைபாடு மிகவும் போன்று இருக்கிறது. கால்வாய் குறைபாடு

（三）「人間」の「死」の問題

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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J H

V.

January 1, 1945

MEMORANDUM for the Superintendent,
Yellowstone National Park.

The following is a report of the activities under the supervision of engineering for the month of December, 1944.

Office Work, Plans and Surveys

The Project Construction Program was revised, separating the priority list for "minor roads" from that of "physical improvements". Some time was also spent on the new road maintenance program.

Road Maintenance

Maintenance for the month was very light, consisting chiefly of patrol operations to remove loose rock from the road surface. Mountain sheep playing on the north end of Mt. Everts loosen large quantities of rock which roll to the road and make it necessary to patrol this section once and sometimes twice daily.

The new disc sand spreader was used two or three times during the month and it has proved to be a great labor and material saver.

On December 20 considerable snow fell, making it necessary to get out the snow plows. The snow varied from approximately 5 inches at Mammoth to 12 inches at Cooke. The push type plows were used.

During the past year we had no serious maintenance problems. There was a shortage of labor, but the season was unusually long and no serious fires interrupted our operations. All road sections are in fair shape; but the bituminous surfacing is raveling on the shoulders in a great many places and the earth shoulders need reshaping.

Some guard rail was placed in the Canyon area and on the East Entrance road, but there remains large quantities that are falling from their own weight.

About two miles of the Gallatin section was stabilized and is ready for the bituminous mat.

Maintenance of minor roads has been somewhat neglected, concentrating our efforts on the more used and higher standard major road sections.

Building Maintenance consisted of routine operations throughout the month.

cc: Region Two Office
(In triplicate)

Philip H. Wohlbrandt
Philip H. Wohlbrandt
Park Engineer

1. INTRODUCTION

INTRODUCTION - THE RESEARCH
AND ITS PROBLEMS

THE RESEARCH WORK IS DESIGNED TO STUDY THE EFFECTS OF HIGH PRESSURE ON

2. THEORETICAL AND PRACTICAL ASPECTS

THEORETICAL - PROBABLY THE MOST INTERESTING ASPECT OF THE RESEARCH IS THE POSSIBILITY OF DETERMINING THE "EFFECTIVE" HIGH PRESSURE FOR WHICH THE POLYMERISATION RATE IS EQUAL TO THAT AT 1 ATMOSPHERE.

3. EXPERIMENTAL WORK

EXPERIMENTAL - THE WORK IS DESIGNED TO STUDY THE EFFECTS OF HIGH PRESSURE ON THE POLYMERISATION RATE AND THE POLYMER STRUCTURE. THE POLYMERISATION RATE IS DETERMINED BY MEASURING THE RATE OF INCREASE OF CONCENTRATION OF MONOMER.

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Blowing water
Water from a stream

Water

Water from a stream
is called water.
Fresh and clean.

Ice age

Ice age is a period
of glacial activity.

Ice age
Glaciers have done
many changes.

Mountain

Mountains are
ancient hills
which are formed by



1900

Wet weather

Cloudy

Shallow water

Water moving

Wet bottom

Cloudy

Cloudy

Wet bottom

Cloudy

Wet bottom

Cloudy

Wet bottom

Cloudy



