UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the month of APRIL 1937

	This Month	This Month Last Year	Increase	Decrease
AL BUSINESS				
e. of circuit maintained	371	365	6	.017
of telephones connected	141	141	0	.00
of measured service calls				
of other local calls				
al No. of local calls	7112	6554	558	.7
k load in calls per day	396	374	76	6
ipts from measured service calls				
eipts from coin boxes				
eipts from telephone rental				
Total receipts				
G DISTANCE BUSINESS				
Outbound calls	56	97	-41	-42
Inbound calls	116	126	-10	-7
TOTAL LONG DISTANCE CALLS				
k load in calls per day	12	16	-4	-25
eipts from long distance business	26.96	35.75	8.79	-24
EGRAPH BUSINESS				
ages via Western Union				
ages via				
TOTAL MESSAGES				
eipts from telegraph business				
of money transfer messages				
of money transfer receipts				

AL security telephone & telegraph dept-

10-23

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO. 143

MONTHLY REPORTS

May, 1927

MAY 1927

June 5, 1927.

Dear Sir:

The following is my report on conditions in Yellowstone National Park, and on the activities of the National Park Service, for the month of May, 1927:

000 - General

Toward the end of May and on June 1st I wrote several special reports to you on conditions in Yellowstone National Park. These told of the unusual weather conditions which resulted in keeping the snow at unusual depths on many sections of the main highway section. I also explained the difficulties that would be encountered in opening the park for the 1927 season and the extraordinary costs that would be involved. I returned to the park from my absence on duty as Assistant Director (Field) on May 14th. I found then that conditions were discouraging owing to the late spring and the exceptionally bad weather so far encountered in May. There were a few days of good weather about the time of my return. The weather turned cold and stormy about May 17th and continued stormy until the end of the month and for the first week of June. With the exception of the spring of 1917, and to a lesser degree the spring of 1920, this year has produced the most adverse weather conditions within our knowledge of Yellowstone Park operations. As this report is written, it is still impossible to cross the Continental Divide between Old Faithful and West Thumb. Dunraven Pass between Grand Canyon and Tower Falls has 8 or 10 miles of road full of deep, drifted snow. Sylvan Pass is closed and cannot possibly be opened before June 18th, and the south entrance road is in equally bad condition. The road from Mammoth Hot Springs to Old Faithful was opened on May 16th, and on May 27th the first crew succeeded in reaching Canyon Junction from Norris. A big washout near Alum Creek made it impossible to get to Lake Yellowstone until Sunday, June 5th. On that date, with the park engineers and my assistant, I got through to Lake Yellowstone and to a point approximately 2 miles south of West Thumb. We also got out on the Cody Road nearly 6 miles. Other sections of this report will give more details of the extraordinary conditions surrounding our efforts to open the park for the current season.

June 5, 1947.

Dear Jim:

The definition is my report on activities in international fields, and on the activities of our national news service, for the month of May, 1947:

NEW - Continued

Toward the end of May had an item let I wrote several special reports in you on conditions in Tallahassee National Guard. These held of the usual events and situations which resulted in keeping the same at maximum tempo on many questions of the Guard's Military Academy. I also emphasized the difficulties that would be encountered in getting the 1947 session out the authorized by vetoed that would be involved. I responded to the press from my standpoint in trying to stimulate interest in the Guard. I found that stabilizing and stimulating action to the Guard's situation and its responsibility had resulted in the Guard's being in the best condition in many years. Given some a few days of good weather which the time of my return. The weather turned cold and stormy about May 17th and practically until the end of the month and the first week of June. Also the emergence of the spring of 1947, and to a lesser degree of spring of 1948, this year had practical the usual adverse weather conditions which our knowledge of Tallahassee this spring has. In this project is written, it is still impossible to guess at national weather. Old Farmers and Fort Lyons. Southern Ohio Weekend Trends Tempers and Tower Fight was 6 or 10 miles or more still or hazy, Saturday rain. Spring fever is general and manual, usually in general sector. Also 1948, and the strong determine that in to equality and consulting. The road from Kansas has experience in our Tallahassee and against in May 10th, and on May 17th the Guard were responsible in practicing Tuesday discussion from Kansas. I was evaluator that also Kansas made it impossible to get in some training and still doing, from 5th. The that time, also the pure engineers and or academicians. Our Kansas in Lake Tallahassee and so I prime approximately 2 million acres of that Guard. It also was in the hour and nearly 5 miles. Other sections of this report will give more details of the experiences and activities particularly the efforts in view the work for the summer camps.

110 - Status of work

Upon my return to Yellowstone after a long absence over the winter months I found the business of the park in exceedingly good order. Office work was about current. The property was in exceptionally fine condition and order and I have never seen the shops so well kept nor have I ever seen them running with such efficiency. Much work has been done in spring cleanup. The employees of the park were going about their work with fine spirit. Taking everything into consideration it gave me an immense amount of pleasure and satisfaction to come back and see this big park running so smoothly and with so much efficiency.

While the ranger force has suffered some losses by resignation its work also was up to its usual high standard. The engineering department I regard as entitled to special commendation because throughout the winter it has been entrusted not only with the activities that have always belonged to that department but also the work of the shops. The outlook for the summer is good. Everything points to a big season and I would not be surprised if we had a total travel of from 200,000 to 210,000 people. All of the park operators were in the park by the end of May getting ready for the summer and proceeding with construction plans. The Yellowstone Park Hotel Company and the Yellowstone Park Camps Company both have large building programs to carry out during the summer and fall. An immense new wing will be constructed on Old Faithful Inn and the Old Faithful Lodge central buildings will be largely reconstructed and a new lodge with service units and new recreation hall will be the principal additions to the existing central structure. Many smaller improvements are contemplated in all parts of the park. It is estimated that more than $600,000 will be expended by the operators during the coming summer. Add to this nearly $300,000 that will be expended on road construction and improvement and we have a total improvement program of nearly $1,000,000. This is as large a program as the park can successfully handle during a season that promises to be rather short on account of the very late spring.

120 - Park inspections by

121 - Superintendent: As already stated, I returned to the park on May 14th. I had to leave on the 15th for a business trip to St. Paul and returned on the 18th. While I inspected every activity at headquarters during the first week I was here I did not go into the upper park until May 25th. On that date I inspected the roads between Old Faithful and West Yellowstone. A thorough inspection was made of the Old Faithful center of interest with the President of the Yellowstone Park Camps Company and with Landscape Engineers Vint and Davidson. I was at Old Faithful again on May 28th with the landscape engineers and with several of the park operators for the purpose of staking out the new wing to be built on Old Faithful Inn. On June 1st I made my first inspection of the road to the Grand Canyon and on Sunday, June 5th, I reached Yellowstone Lake and West Thumb on the first inspection trip made to those sections this year. All of the trips into the upper park were made with considerable difficulty and the first trip to the Canyon was especially hard.

123 - National Park Service officers

Assistant Landscape Engineer Davidson arrived on May 21st and

Upon my return to Fallowtown after a long absence over the winter months I found the business of the park in somewhat good order. Little work was about anymore. The property was in excellent condition and under old I knew never mind the other so will keep our map. I ever seen been running with such efficiency. Much more has been done in spring cleaning. The employees of the park were going about their work with fine spirit. Seeing everything into consideration it gave me an immense amount of pleasure and satisfaction to know that we had big work running so smoothly and with so much efficiency.

While the future years has entered been issued by management life was also up to its usual high standard. The amusement department required no artists to special conditions because throughout the winter it has been maintained not only with the activities that were always attached to that department but also for the work of the park. The building the has changed is good. Everything points to a big season and I would not be surprised if we had a total travel of from 600,000 to 650,000 people. All of the park equipment was in the park by the end of May putting many the number was preceding with operation plans. The Fallowtown Park Band Company and the Fallowtown Park Dance Company with been large building programme to carry out during the winter and fall. In addition new wing will be constructed on the refreshment lounge and the Old Colonial Lodge Dance Pavilion will be completely reconstructed and a new lodge with service cabins and new recreation hall will be the principal additions to the existing amusement structure. Many smaller improvements are contemplated in all parts of the park. It is estimated that some that 500,000 will be expended by the operations during the coming winter. Not to mention that will be expended on road construction and improvements and we have a total improvement programme of nearly $1,000,000. This is no longer a project in the park now successfully handle during a season that promises to be rather above on account of the very fine spring.

128 - Year Improvements

121 - Improvements. As already stated, I returned to the park on May 14th. I had to leave on the 19th for a month's trip to Fr. Paul and Plymouth on the 7th. While I improved every activity at headquarters during the first week I was busy I did not go into the regular park until May 25th. In that time I improved the roads between Old Colonial and Deer Fallowtown. A thorough inspection was made of the Old Colonial Lodge of interest with the President of the Fallowtown Park Dance Company and with Lodgekeeper Christopher Tick and Tarkins. I met at Old Colonial again on May 27th with the Lodgekeeper employees and with several of the park operations for the purpose of stating our wing up to date as the Lodge Lodge. On Lake Lot I made my first inspection of the road in the Deer Fallowtown on Sunday, June 3rd. I reached Lakewood Lodge on next Tuesday on the first inspection trip made in some months this year. All of the other lodges the dance pavilions were also with Lodgekeeper Christopher and the first week in the August and September trip.

123 - Special Park Improvements

Amalgamated Lodgekeeper Institute started on May 21st and

Associate Landscape Engineer Vint arrived on May 22 and after making a study of the Mammoth auto camp grounds and designating sites for certain new buildings in this camp ground the landscape engineers went to Old Faithful where they spent 4 or 5 days studying the location of new buildings to be constructed there this summer. They also planned the new cabin site in the automobile camp ground and designated sites for a new picture shop, new bathhouse and other improvements in the camp ground. Returning to headquarters they made a study of the grounds here at headquarters, arranged for some more planting to be done and inspected the landscape work that is being accomplished at Gardiner by the public utilities. On June 1st Mr. Vint left for Grand Canyon. Mr. Davidson is still here supervising landscape activities.

Lamoniro Indonesia Delegation Plan arrived on July 22 and after making a study of the Samarth area over ground and designing sites for permanent war facilities in this area, given the Lamoniro engineers went to Sri Pradesh where they spent 4 or 5 days studying the location of some facilities to be constructed there this season. Our view planned the construction site in the Samarth area ground and designed its for the a new system area, the engineers and also a representative in the area ground. According to engineers they made a study of the problem that is Samarth area, arranged for some more planning to be done and in-spected the Lamoniro work that is being undertaken by the public utilities. On this Jan 8th. This left for Grand Tangun. Mr. Williams is still here supervising Lamoniro activities.

130 - Finance and Accounts:

The status of the different allotments to Yellowstone National Park as of May 31st, is as follows:

APPROPRIATION 46433 YELLOWSTONE NATIONAL PARK, 1926.

	Allotments	Expended	Balance
Previously reported	$353,083.00	352,903.85	179.15
Expended during May			
	$353,083.00	352,903.85	179.15

APPROPRIATION 47433 YELLOWSTONE NATIONAL PARK, 1926-27.

Previously reported	28,700.00	27,345.74	1,354.26
Expended during May		19.04	19.04
	28,700.00	27,364.78	1,335.22

APPROPRIATION 47433 YELLOWSTONE NATIONAL PARK, 1927

Previously reported	340,586.00	303,446.08	37,139.92
Expended during May		16,546.23	16,546 23
	340,586.00	319,992.31	20,593.69

APPROPRIATION 4x436 ROADS AND TRAILS, NATIONAL PARKS

Previously reported	137,876.37	111,937.82	25,938.55
Expended during May		85.11	85.11
	137,876.37	112,022.93	25,853.44

APPROPRIATION 47406 INSECT INFESTATION, NAT'L PARKS, 1927

Previously reported	2,500.00	1,041.10	1,458.90
Expended during May		580.00	580.00
	2,500.00	1,621.10	878.90

APPROPRIATION 48433 YELLOWSTONE NATIONAL PARK, 1927-28

Previously reported	30,000.00	1,169.27	28,830.73
Expended during May		1,120.42	1,120.42
	30,000.00	2,289.69	27,710.31

The status of the different objectives in Tailorbird National Park as at May 31st, is as follows:

AUTHORIZATION 4/4/53 YELLOWBIRD NATIONAL BANK, 1964.

	Authorized	Expended	Balance
Previously reported	$15,000.00	$12,203.57	$2,796.43
Expended during May			
	$15,000.00	$12,203.57	$2,796.43

AUTHORIZATION 4/4/53 YELLOWBIRD NATIONAL PARK, 1967-27.

Previously reported	$2,700.00	$1,345.74	$1,354.26
Expended during May		19.01	19.01
	$2,700.00	$1,364.75	$1,335.25

AUTHORIZATION 4/4/53 YELLOWBIRD NATIONAL BANK, 1967

Previously reported	$40,500.00	$23,986.08	$16,513.92
Expended during May		16,546.41	16,546.41
	$40,500.00	$40,532.49	$32.51

AUTHORIZATION 4/4/53 BOARD AND TRAILS, NATIONAL PARKS

Previously reported	$37,876.37	$37,876.37	
Expended during May		112.11	112.11
	$37,876.37	$37,988.48	$112.11

AUTHORIZATION 4/4/53 TRUST DIRECTION, NAT'L PARKS, 1967

Previously reported	$6,500.00	$4,821.10	$1,678.90
Expended during May		500.00	500.00
	$6,500.00	$5,321.10	$1,178.90

AUTHORIZATION 4/4/53 YELLOWBIRD NATIONAL BANK, 1967-68

Previously reported	$30,000.00	$1,169.27	$28,830.73
Expended during May		1,130.42	1,130.42
	$30,000.00	$2,299.69	$27,700.31

140 - Labor Situation

From all I can find out there is an abundance of common labor although it is not easy to secure skilled men such as carpenters, plumbers, etc. We have far more applications for laboring positions than we have positions available at this time. I anticipate, however, that our labor situation may be far less favorable a little later. The construction of the new hotel wing at Old Faithful and other improvements by the operators will require a force of 250 men. Our new road building activities will, in addition to our regular operations, call for at least as many men as we had last year - between 400 and 500, and if contractors get to work on the Gallatin and Cub Creek Road projects they will be in the market for a considerable number of men. The State of Montana is entering upon a 2-1/2 million dollar road building program and will be a keen competitor for labor. There may be so much competition for labor that before the summer is over we will be forced to raise our rates of pay, although we will never do this unless absolutely forced to this step.

150 - Equipment and Supplies

Considerable foresight has been used in laying in ample supplies for the spring crews and about all the equipment we can use is available except the oil sprayer which has not yet arrived. With the exception of this oil sprayer we seem to have had prompt delivery on equipment and supplies. The new 3-1/2 ton White truck which is part of the road oiling outfit was delivered about June 1st. New dump trucks and other road equipment has arrived.

Employees of the transportation department were engaged in hauling rations, coal, freight, express and market supplies from Gardiner to Mammoth. Employees of the commissary were engaged in receiving and storing supplies, issuing supplies and equipment, painting equipment, repairing cement floor in oil house, checking out road camps, and taking over equipment cards from plumbing shop, paint shop, stables and electrical shop.

200 - Maintenance, Improvements and New Construction

Road maintenance was continued around Mammoth and the new equipment given a thorough tryout. May 26th the 75 Holt tractor which we received from friends of the park was sent out with two graders to do heavy maintenance work. This consists of cleaning ditches, scarifying the surface of the road and reshaping. 14 miles of this work was done this month. Due to the weather, which was very stormy all during the latter part of the month we could make no progress with the work. Our other tractor was laid up for repairs which had failed to come during the winter when ordered.

No more experimental oiling was done due to the cold rainy weather but the experiments made so far look very hopeful. An order was placed for

the season's supply of oil, some 300,000 gallons.

The road to Norris Junction and Old Faithful was opened to light traffic the 19th. Considerable snow stayed on this road all the rest of the month and as a result the surface is in very poor shape. The road from Norris to Canyon was opened May 27th but due to subsequent heavy snows it was necessary to put another snow crew across that road May 30th. This time the road was opened sufficiently so that truck traffic could make it through and then with good weather starting the last day of the month, the road will be ready for tourist traffic in a week.

May 27th the crew at the east entrance moved up into Sylvan Pass and started to shoot the drifts. The snow is much heavier and deeper than usual and as this work is extremely arduous the crew was doubled in number. More than a foot of damp snow has fallen since they started to shoot, with this covering their work, the elements will have a difficult time in helping us get rid of any of the snow.

May 6th the maintenance crew was organized for the East Forest road. Due to heavy storms which made the roads impassable the crew did not get started until the 10th. By the end of the month they had graded and repaired the road as far as Pahaska which is about three miles from the east entrance. The Shoshone river is lower than it has been for years, at this time of the year, and as there is so much more snow than usual, the prospects of saving the road from damage by the high waters is not very good although we are taking every precaution to see that the channel is clear and that our revetments are in good order.

During the month, the Gardiner River reached a high water stage and as the old slide on the west side of the river had nearly filled the channel, measures were taken to shoot out the slide before the river had washed to the road. The channel was widened from fifteen to twenty feet and thereby saved the road from wash although we did lose about 3 feet of width.

220 - Improvements - Buildings

The carpenter spent most of the month on equipment repair besides the usual small building repairs. The living quarters at the hospital are in process of being enlarged but the work is not complete. Three rooms will be added to the building to accommodate Dr. Windsor and family.

Painting Department: The Master Painter did the following work during the month: Painted truck #537; painted tops of cars #13 and #18; did miscellaneous work about buildings, auto camps and reservoir; working on old and new signs; painted bathroom at Mr. Lord's quarters and museum; stained and varnished new equipment for office. On leave 3 days.

Plumbing department: The following work was done by the Master Plumber and his assistants: Six steam plants and four hot water plants were operated during the month, consuming one cord wood, and 38 tons of coal. Installed new toilet in bachelor building; repaired ice boxes; turned water on in buffalo corral; repaired 18 Majestic camp stoves;

the reactor's supply of oil, some 3,000,000 gallons.

The road to Sorrie Junction and Old Fairbrit was opened to light traffic on 1/12. Construction crews stayed on site; road all the way of the north and as a result has surface is in very poor shape. The road from Sorrie to Cooper was opened May 8/13 but is in considerable decay which it and necessarily is yet another some crews further that road May 7/13. This road was opened sufficiently to last trucks, traffic could move it through and thus with good weather allowing the last leg of the route, the road will be ready for heavier traffic in a week.

May 1/14 the crew at the west entrance moved up into Quinton Pass and started to shoot the drifts. The crew in charge Patrick Cooper then moved out on this work is extremely arduous the crew was headed to meadow. Here there a foot of deep snow has fallen along they started to shoot, also have covering their work, the elements will have a difficult time in holding up get rid of any of the snow.

May 6/14 the main crew was dispatched for the East Forest road. The 14 heavy stumps which made the trails impassable the crew did last year started April 1/14. By the end of the month they had pushed and regraded the road as far as Fabacs which is about three miles from the west entrance. The Canadian river is lower than it has been for years, at this time of the year, and we there is so much more snow than usual, the prospects of moving the road from damage by the high waters is not very good although we are trying every precaution to see that the channel is clear and that our revetments are in good order.

During the month, the Quinton River reached a high water stage and at the old site on the west side of the river had nearly filled the channel, measures were taken to shore out the sides before the river had washed in the road. The channel was widened from 12feet to twenty feet and thereby saved the road from washing although we did lose about 3 feet of width.

III - Improvements - Buildings

The carpenter spent most of the month on equipment repair besides the usual small building repairs. The living quarters at the hospital - are in process of being enlarged but the work is very complete. Other rooms will be added to the building to accommodate 15. Interior not finished.

Painting Department: The Painter Fairbrit did the following work during the month. Painted trucks 3/13; painted tops of cars 3/2 and 3/3; did miscellaneous work every building, bath houses and caretakers building on old and new sites; painted bathrooms at Mr. Lund's quarters and assumed charge the varnished new equipment for office. On hand 7 days.

Plumbing Department: The following work was done by the Master Plumber and his assistants: 114 steam plants and four hot water plants were repaired during the month, averaging one case week, and 30 tons of coal. Installed new toilet in bachelor building; repaired the boiler burned water in buffalo corral; repaired 10 Bulgaria camp stoves

made 45 Henry Sibley stove pipes; repaired 130 Sibley stoves; installed new bath supplies in Judge Meldrum's quarters; installed sprinkler system on lawns at Mammoth, using 400 feet 1" pipe and 8 faucets; made flower stand with running water for museum; repaired 24" pipe line supplying water to Mammoth; repaired cement work at intake in Glen Creek; commenced ditching and oiling for mosquito control work.

Electrical department: The following was done by the Electrical department during the month of May: Built 5 spans for new power line at automobile camp grounds; made some telephone line repairs and took about 75 fallen trees off park telephone lines; put in wiring for electric lights and electric range in hospital annex; spent two days repairing and cleaning governors in power plant machines; inspected and oiled all motors at garage and shops.

Garage: The following work was done in the shops and garage during the month: Completely overhauled two Holt 75 caterpillars, Nos. 1 and 2, 1 Galion motor road grader, No. 1, 1 Mack dump truck, No. 531, two Ford cars, Nos. 542 and Ford (bootlegger car); also F.W.D. tank trucks, Nos. 518 and 512; built 2 steel oil tanks for trucks 518 and 512.

230 - New construction - roads

Firehole Road: May 20th a crew, with Mr. O. A. Weisgerber, as foreman, left for the Firehole and spent the remainder of the month setting up camp and overhauling the air compressor, the steam shovel and other equipment which was too heavy to bring to Mammoth last fall. By the end of the month the steam shovel was ready to work and some excavation was started. The other equipment will be in condition within two weeks and a large crew will be put to work. Bad weather hampered the work and as the roads were impassable until the day before the crew went out it will be some time before the job will be complete.

240 - Improvement of approaches to park

It appears that a large amount of work will be done during the summer on approach roads to the park. On the Gallatin road Gallatin County, the Northern Pacific R.R., and the C. M. & St. Paul have made up a fund of $9,000 which has been matched with an equal amount by the Forest Service. This fund of $18,000 will be used in improving that section of the Gallatin road which has not heretofore been reconstructed. Most of the work to be done will be in the vicinity of Karst's camp, some 30 miles north of the park.

On the north approach road from Livingston, Park County funds matched by Federal aid money will be used in continuing the new permanent highway from the end of last year's work to Chico Hot Springs and beyond. It is possible that enough funds will be found to continue this road to Carbella, thus making it possible to drive from Livingston to a point approximately 10 miles north of park on a fine high standard road. There will remain to be constructed, if the work is completed to Carbella this year, only about 10 miles of road to Gardiner and a new bridge across

the Yellowstone River at Gardiner.

On the Cody road the contract entered into last year for the widening of the road westward from the Shoshone dam was completed several months ago. The next project to be undertaken involves the improvement of the section of state highway immediately east of the Shoshone National Forest. Whether the work will be done this year or not I do not know. Surveys have been undertaken. On the south approach roads considerable money will be expended in betterments, particularly on the Hoback Canyon road. The Gros Ventre flood which occurred on May 18th washed out the new bridge over the Gros Ventre River which was part of the main highway between Jackson and Moran. This involved a loss to the State of $50,000 It is understood this bridge will be replaced this year. At this time I do not know of any special work contemplated for the west approach roads except at considerable distances from the park. The park is bound to benefit, however, by the Montana road construction program which involves expenditures of approximately $2,500,000. This sum of course includes more Federal aid money than State funds.

260 - Landscape work

As pointed out in another paragraph Landscape Engineers Vint and Davidson were here during the month of May and Mr. Davidson is still here, as this report is written. They have been selecting sites for new buildings to be erected by the Government and by park operators during the summer and have done a large amount of landscape work in the camp grounds particularly along the lines of rearranging cabins in the housekeeping sections and in planning for the establishment of new cabins to be built this year. They have devoted much time to contemplated work of the park operators and have been in consultation with officers of the public utilities and their architects. Landscape Engineer Davidson has devoted a good deal of time to planning for the improvement of the grounds at headquarters and the Mammoth camp grounds. All of the work done by the landscape engineering division has been very important and has been accomplished to the satisfaction both of this office and the park operators. Mr. Vint will return in a few days to continue his activities. He had to leave on June 1st to visit the north rim of the Grand Canyon in connection with the planning of the new lodge to be built there.

300 - Activities of other agencies in the park

310 - Public Service Contractors

Yellowstone Park Hotel Company: The following new construction, repairs and renewals were accomplished by this company during the month: Gardiner: Reinforced concrete building for acetlyene generator plant completed; heavy wagons repaired; rock fence at south end of property built; finished work in shop on 294 buses, trucks, etc. Mammoth: Drivers' bunkhouse and mess house completely repaired; concrete wall built around gas tank; construction commissary completed; foundation for laundry completed and concrete tunnel

the Saltonstall Dam at Saybrook.

On the day that the revolver entered late last year for the ability of the road vehicles from the Southern Ian the complicated overall menace use. The best project is in a manner, involves the improvement of the service of state highway Immediately that of the Connecticut National Forest. Whether the work will be done this year or not I do not know. Its steps have been considered. In the human approach small-scale work money will be expended in Litchfield, particularly on the Torrington road. The cross Farms flood which occurred on July 1 has washed out the new bridge over the Bora Tenter River which was part of the so-in planned between Farmington and Avon. This involved a loss to the state of $70,000 it is anticipated this action will be replaced this year. It has also I do not know of any special work contemplated for the area approach roads except as considerable structures from the park. The work is based on Conn.11, however, by the Politics road construction program which involves expenditures of approximately $2,500,000. This and of roads includes some federal aid money that [illegible].

2(c) - Landscape work

As pointed out in Section 2 preceding landscape improvements that and Parkland were both during the month of May and so. Activities in April Park, as this report is written. Only this year that [illegible] plans for new Fairlawn to be started by the Government and of park operators during the summer but date also a large number of laborers work in the park generally particularly also the time of transplanting cedars in the Homesteading activities and in planning for the establishment of new basins in the [illegible] park. Only have started some time to undertaken when or the park operations did have been in consultation with officers of the [illegible] and their architects. Landscape Engineer Tomlinson has devoted a good deal of time in planning for the improvement of the grounds at [illegible] and the Cement Camp grounds. All of the work done by the landscape engineering division has been very important and has been accomplished to the satisfaction both of Mr. Ellis Stone and the park operators. Mr. Stone will return in a few days to continue his activities. We had to leave on June 1st to visit the Wife or the Stone Company in connection with the planning of the new lodge to be built there.

2(d) - Activities of other agencies in the park

2(e) - Public Works Undertakings

Reinvestment Park Road Company: The following was accomplished. Repairs and renewals were accomplished by this company during the month. Surfaces maintained pursuant to existing for analysis preservation plant completed. Early Chapman material most large at state use of property [illegible] [illegible] in step of City [illegible], Hunter, etc. Attention [illegible] maintenance and some [illegible] equipment operations well still around the [illegible] construction. Contractor employed [illegible] the [illegible] and [illegible]

from laundry to hotel 90% completed; graded and filled in lawn in front of girls' dormitory; road in rear of hotel commissary and in rear of transportation store room completed; miscellaneous work on Mammoth Hotel completed. West Yellowstone: repair work on mess house and bunkhouse completed; water tank moved to top of hill. Engineering Department: Two new sinks installed in mess house at Mammoth; 3 new wash racks for Transportation company; steam line in concrete platform to clean garbage cans; telephone conduit from Mammoth to new engine room for all lines; new automatic stoker in engine room: 1-1/4 mile telephone line - 6 wires West Yellowstone; usual repair work and preliminary work at all hotels preparatory to opening them. Paint Department (Gardiner): Finished lacquering of 219 buses, touring cars, trucks, etc. Mammoth: Painted transportation bunkhouse inside and out; painted outside of McDonald and Lindelef's houses; painted all rooms second floor Mammoth Hotel; one coat paint on addition to construction commissary.

Yellowstone Park Camps Company: (A report on the work done by this company will be submitted shortly as a supplement to this report.)

from laundry to hotel [illegible] completed; grades and fillet is been in terms of girls' dormitory; road in rear of hotel completed and in near-by transportation zone room completed; miscellaneous work on Seventh Hotel completed. Equipment: regular work on main house and [illegible] completed; water tank moved to top of hill. Engineering department for new [illegible] is were made at Seventh [illegible] new work tracks for transportation company; where line in [illegible] platform to place garage cars; telephone conduit from Seventh to new depot from for all lines; new automatic stoker in engine room: 1-1/2 mile telephone line - 6 wires that telephone; small repair work and preliminary work at all depots preparatory to opening [illegible]. Other Department (Maintenance) Finishing leveling of 217 acres, leveling park, [illegible], etc. Housing: national transportation bungalows inside and will palace [illegible] of Seventh and Lintelaf's houses; painted all rooms around Chore Bungalow Lorel; one coat paint on addition to [illegible] bungalow.

Yellowstone Park Lodge Department: (a report on the work done by this company will be submitted shortly as a supplement to this report.)

400 - Flora, fauna and natural phenomena

410 - Ranger service

The activities of Chief Ranger Woodring have consisted of general supervision of all protection department activities consisting in part of ditch cleaning at the hay ranches, repairs and maintenance of headgates, irrigation of hay lands, repairs to fences, buildings and equipment, cooperation with the Engineering Department and park concessioners in the work of opening the roads to the upper park and the erection of a new snowshoe cabin at Crystal Spring. A pack train of 10 animals has been organized and fully equipped and materials for the erection of a new snowshoe cabin at Fawn Pass have been transported to within 4 miles of the site selected for the building; this work will be completed just as soon as snow conditions in the pass will permit. The north and west entrance stations were opened to travel on June 1st and rangers are now on summer season assignment at the principal points of interest along the loop road.

Assistants Chief Ranger Trischman, Douglas and Lick have been directly in charge of the spring season work in their respective supervisory territories. They also assisted with the building of the new snowshoe cabin at Crystal Spring.

Assistant Chief Ranger Greer has been employed throughout the month in the detail work of the Chief Ranger's office, consisting in part of report compilation, correspondence with applicants selected for summer season service, the preparation of memorandums, circulars, duty rosters, etc., governing the activities and duties of park rangers, communication service with outlying stations, preparation of supply requisitions for all summer stations and numerous miscellaneous duties of a supervisory character.

All other members of the ranger department have been employed throughout the month at the usual miscellaneous duties in preparation for the opening of the tourist season. There has been some delay in transferring the men to their summer stations on account of snow and weather conditions which have kept the roads closed to visitors prior to June 1st. The work has consisted principally of cleanup maintenance and repair of trails, buildings and grounds and emergency repairs to telephone lines. All the principal loop stations were garrisoned prior to the admission of tourist travel on June 1st.

460 - Birds

The month was reported by the Weather Bureau as the most severe of record for any month of May since the record began. And this condition has been reflected in the wild life, particularly in retarding the nesting of birds.

Apparently, the nesting of Mallard ducks is fully a week, perhaps two weeks, later than usual, and this is doubtless the case with the other duck species, as well as being typical of the general situation regarding the nesting of birds for the month.

[illegible] - Fires, floods and natural disasters

[illegible] - Ranger service

The services of Chief Ranger Dorothy Jarvis [illegible] of general supervision of all provincial park activities [illegible] in part of which [illegible] of the park rangers, [illegible] and maintenance of campsites, [illegible] of [illegible] in towns, building and repairs, operations with the Conservation Department and park superintendent in the work of opening the roads to the upper park and the erection of a new campsite [illegible] Special Ranger. A year's trial of [illegible] has been [illegible] and fully equipped and materials for the erection of a new summer [illegible] as from [illegible] been transported to [illegible] of the site selected for the building; this work will be completed just as soon as more facilities in the park will permit. The work and water extension [illegible] were opened to [illegible] and rangers are now on duty [illegible] assignment at the principal points of interest along the Long Trail.

Instructor Chief Ranger [illegible], Douglas and Lake [illegible] [illegible] in charge of the spring season were in their respective summer [illegible]. They also assisted with the building of the new summer [illegible] at Ripstal Spring.

Assistant Chief Ranger [illegible] has been employed throughout the month in the [illegible] of the Chief Ranger's office, [illegible] in part of report compilation, correspondence with applicants [illegible] for summer [illegible] service, the preparation of [illegible], [illegible], [illegible], [illegible], [illegible] and details of park rangers, [illegible] service with [illegible], preparation of supply requisitions for all summer [illegible] and [illegible] of a supervisory nature.

All other members of the ranger department have been employed throughout the month on the usual clerical duties in preparation for the opening of the tourist season. There has been some delay in [illegible] the [illegible] in their summer stations on account of snow and weather conditions which have kept the roads closed to visitors prior to June 1st. The work has consisted principally of clearing [illegible] and repair of trails, [illegible] and generally repairs to wigwams [illegible]. All the [illegible] loop stations were [illegible] prior to the schedules of tourist travel on June 1st.

[illegible] - Stats

The month was ushered in [illegible] as the most severe of record for any month of the year since the record began. [illegible] has been [illegible] in the [illegible], particularly in [illegible] the weather of [illegible].

Apparently, the meeting of [illegible] snow is [illegible] a week, perhaps two weeks, later than usual, and this is [illegible] the same with the other [illegible], as will be [illegible] of the [illegible] [illegible] the melting of [illegible] for the month.

As the month ended the number of migrants arriving was about average. Crows, black--billed magpies and robins are known to have been among the birds whose egg-laying was completed before the last of the month.

Rangers working along the Gardiner river near the water gauge reported a nest made of sticks, and supposed to be that of an owl, in a cottonwood tree near the river. Investigation by the Park Naturalist showed the nest in question to be apparently the abandoned one of a hawk or a pack rat. In a second trunk of the same tree, however, there was a cavity occupied by three young of the Western horned owl. A description of these young and the nesting cavity is contained in "Nature Notes from Yellowstone Park" for May 31st.

There have been more reports than usual of the Western or Louisiana tanager, and this species - the most gorgeously colored song bird in the Park - appears to be more abundant than ever. The Townsend solitaire, another interesting bird of the region, also seems to be exceptionally numerous.

The outstanding ornithological features of the month were the flocks of Brewer and Think-billed red-winged black birds and the many bluebirds constantly to be seen about the lawns and buildings of the Mammoth community.

More rock wrens than usual have been noted, and it is to be hoped that this very interesting bird, one of the most characteristic of the Park, is on the increase.

470 - Animals

Wild animal and forage conditions have rapidly improved throughout the month and very few late season losses have occurred. There is every indication of a normal annual increase in all the herds.

Elk: There were no unusual elk movements during the month although there has been a moderate drift to the higher elevations. Large bands are now frequenting the slopes of Everts and Sepulcher mountains, the entire Blacktail

district and along the Yellowstone River from Crevice Basin to Slough Creek. Large bands are also ranging the slopes of Specimen Ridge and moving up on the north slope of Mt. Washburn. The first calf elk reported this season to date was observed in the Hellroaring District on the 24th. Several have since been seen in the Mammoth District. The following late spring season losses were observed during the month: Bulls 13, cows 51, calves 63, total 127, which, together with 440 previously reported makes a season total of 567 exclusive of shipments and the losses caused by hunters. This total consists of the following: Bulls 26, cows 81, calves 211, unclassified 149. Forage conditions are excellent, herd conditions are good, and most of the calving will occur before the spring migration.

Deer: The deer have been seen in their usual numbers in the Mammoth, Gardiner, Crevice and Hellroaring Districts during the month. The Mammoth band is seen daily on the lawns and parade grounds at headquarters and a band of 35 frequents the hay field at Gardiner. No fawns have been reported this season to date but the annual increase will occur within the next few weeks and during this period they will be rarely seen except along the trails where they are not too frequently disturbed by visitors.

Antelope: Most of the antelope have moved up to their summer range in the vicinity of Tower Falls, Slough Creek and Buffalo Ranch. The herd is in excellent condition and all reports indicate a normal increase this year.

Moose: Cows and yearling calves have been recently seen at numerous points along the highways. A few are seen almost daily on the meadows between Mammoth and Norris and along the road between headquarters and Tower Falls. They rival the bears as an early season attraction for park visitors.

Sheep: There is nothing of special interest regarding sheep at this time.

Buffalo-Lamar River Herd: The herd is in excellent condition. The drift from the winter feed ground started early in the month of April and the various bands have since been ranging along the Lamar and Yellowstone Rivers; from the slopes of Mt. Norris to Slough Creek and Hellroaring most of the bands have moved down below the Lamar River Canyon. There was a loss of 3 cows from calving during the month, leaving a herd total of adults and yearlings of 815. The 1927 calf crop consists of 105 to date exclusive of the losses that occurred during and following the cold wave of April 17th to 21st. The total of these losses is 22. The losses were very unusual in point of numbers. They resulted almost entirely from low temperatures and other adverse weather conditions that immediately killed all night time arrivals.

There is nothing of interest to report concerning the Cold Creek-Pelican Creek herd at this time.

Predatory Animals: There were no noteworthy activities in connection with predatory animal control during the month. The season total of coyotes destroyed consist of 238 as compared with 243 last year and 172 in 1925.

electrical and sloop the Tullibardine Beer from drawing boats to Sloop Green. Large stocks are also brought the engine of operations Tlaje has moving up on the stock stage of 5%. Remarks. The first half six previous 5%% season is been now observed in the Ballarat-Sky diagrams on the side. Lawyer Jane place been away in the Dundee district. The following line spring Boston lodged were overseas during the month. Mills 1%, sons 2%, salves 5%, total 17% added. Together with 1%% previously reported there a season total of 1%% earlier or of 1%% earlier or allowance and the losses owner of company. This total includes of the factories only 5%, Jane 5%, spring 2%, Ballarbrine 1%. Foreign conditions are equally, but conditions are good, and most of the spring will occur before the spring shipments.

Dairy: The dairy have been open in their usual manner in the Kamera, Darlinar, Jervies and Ballarbrine districts during the month. The average herd is been fully on the farms and yields per cent at Jamesfarm and a good of 1% frequents for the fall at Darlinar. In farms have been re-peated this season in the but the usual increase will cause which the cost for water and during this period they will be really been enough since the stalls where they are not too frequently disturbed by visitors.

Dairying: Some of the dairying farms moved up to their summer range in the vicinity of Jervis Falls, though Green and Tullibardine Sound. The herd is in excellent condition and all reports indicate a normal increase this year.

Sheep: Some and feeding sheep have been recently seen at numerous points along the highway. I few are seen almost daily on the roadway between Kamera and Darlinar and along the road between Bandycoters and Jervis Falls. They first has been on an early season attractive for good weather.

Dairy: There is working of special interest regarding sheep at this time.

Butter-Cheese Stock Sheep: The best in in excellent condition. The milk from the winter feed product average early in the month of April and the various milk have since been feeding along the lower and Tullibardine Street from the stages of 5%. Starts to Green Creek and Ballarbrine Heft of the hands have moved down along the lower Street Creek. There was a loss of 3 cows from calving during the month, leaving a herd total of milks and producing of 5%. The 1927 dairy crop contains of 1% in milk analysis of the losses that occurred during and following the cold wave of April 17th in Isle. The total of these losses is 5%. The losses were very around in parts of Kamera. Very reasonable change occurred from the temperatures and other adverse weather conditions that immediately killed all night time milk sale.

There is working of interest in report concerning the Bell Brewerlium Cream Bank at Bell's Glen.

Producing Animals: There were no noteworthy activities in connection with producing animal control during the month. The season total of cooperative tuberculosis tests of 5% as compared with 5% last year and 1% in 1927.

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

Bears: Black and brown bears are now appearing daily in their usual numbers at Mammoth, Norris, Old Faithful, Lake, Canyon and Tower Falls. Grizzlies have also appeared in the Canyon and Lake districts. The usual minor depredations have been reported in connection with their search for food.

Buffalo and Other Ranch Operations: The activities at the Buffalo and other ranches have consisted of ditch cleaning, repairs to headgates, fences and the irrigation of hay lands, repairs, maintenance and improvements to buildings and grounds and the care of ranch, saddle and pack horses. Eleven acres of new ground have been seeded to rye at Buffalo Ranch. Unusual precipitation has prevented the seeding of additional acreage to date. 835.77 tons of hay were fed at Buffalo Ranch during the past winter season, 359.86 tons were fed at the Slough Creek, Gardiner and Yancey Ranches, making a total of 1195.63 tons fed at all ranches in the park. The balance on hand consists of the following: Buffalo Ranch 150 tons, Slough Creek and Gardiner Ranches 246 tons, and Hoppe Ranch 143.74 tons, total 539.74 tons.

480 - Natural Phenomena

Mammoth Hot Springs: The upper levels of the Mammoth formations are not returning to activitity approximating last season's even at the last of the month of May. This may be due to the fact that the snow at the higher elevations has not melted and the ground water is still below normal for this time of year, or their activities may have been transferred to the lower benches. There is a vast amount of water on Jupiter and Mound Terraces and Minerva, Cleopatra and Hymen are also very much alive.

It is probable that bats began to reappear in Devil's Kitchen at the very last of the month as they have again been observed there. A mouse, a pine siskin, a rock wren and three hermit thrushes smothered by carbonic acid gas were found in Stygian Cave.

Upper Geyser Basin: The Castle was in active eruption on Sunday, May 22nd, for over an hour and again on May 24th. At this time it appeared to play up to 100 feet and showed a greater display of power than at any time last year. It plays violently and with a great roar for 45 minutes.

The check on the Daisy recently shows about 75 minute intervals and considerable volume.

Old Faithful has played at 64 minute intervals and generally to its full height.

There is no reason to believe that the Giant, Giantess or the Beehive have played recently, but the smaller ones show little change.

The question is often asked, do spring flood waters materially affect or increase geyser activity? It does not seem that after the normal water supply is established in the underflow that it could, as the vents entering the geyser tubes can only let in so much and the tube can only hold so much but when the underflow is below normal it would seem that this might cause a lessening of activities in some geysers.

Small industry: There is nothing of special interest to report concerning small industry at this time.

Energy: Since all known energy are now conserving daily in order meet emergency at Kamsarn, Kirtle, Ita Kiribati, Lae, Cargos and Tuvalu. Installations have also equipped to the Cargos and Kiribati. The local labour inspectations have been requested to commission with their assent the road.

Stability and other human institutions: The activities as the Australia and other reasons have consulted of this already, regard to headquarters Tuvalu and the institution of the Tuvalu, regards, maintenance and improvements to facilities and grounds and the care of vessel, mainly are part time. Three cases of new ground port have needed to run as Kiribati island. Increased production was prevented the availing of additional average to date. 17.7% rise of day were for at Kiribati from during the year ending March, 33.6% that are at the village level, Quarter and Luang Tuvalu, making a total of 117.6% rise in all areas in the port. The minimum on hand available at the following: Kiribati about 170 tons, Cargos Tuvalu and Quarter Kiribati 4.5 tons, and Cargos about 117.5 tons, equal 33.5 tons.

(B) - General Conditions

Imports and Exports: The major items of the Kamsarn Government are not having to be actually approximating that amount's area at the last of the month of May. This may be due to the fact that the room at the Kiribati authorities has not helped and the general order is still being issued for this time of year, or that activities may have been transferred to the lower islands. There is a very number of other on Tuvalu and Cargos Kiribati and Kiribati. Cargos and Tuvalu are also very good all.

It is probable that this been to transfer to Tuvalu's Kiribati at the very last of the month as they have with some observed there. A stone, a pine shade, a poor area and tuna bought throughs authorized by authorities and are from Tuvalu to Cargos Cove.

Other Imports Trade: The trade was in active supplies on today. The time, the time as and again on day this. At this time it appeared to play up to 100 feet and showed a greater slight of power than at any other last year. It plays relatively not with a power over for 15 minutes.

The manor on the being normally down about 75 minutes towards and considerably tidal.

The Kiribati has played as 5% minute Imports and generally to the full height.

There is no reason to believe that the minor, Kiribati or the Tuvalu have played normally, but the smaller room than Kiribati Cargos.

The question is often asked. We experience that matters materially affect or increase power activity in Kiribati and most does after the general water supply is maintained in the underlying that it would. On the rules affecting the power there was only lost in an hour and the time can only fall to most but when the activities in water normal it would seem that this might cause a lessening of activities in some payment.

490 - Miscellaneous

Snow conditions prevented tourist travel to the park interior prior to June 1st. The sale of permits began at the north and west gates on this date. Travel conditions are fairly good between the north and west entrance stations with side trips to Old Faithful and Tower Falls. The road from Norris to Canyon and Lake will probably be opened to travel about June 10. Travel between Old Faithful and Thumb will be permitted on or about June 15th. The road from Thumb to Snake River from Lake Junction to Sylvan Pass station and from Canyon to Tower Falls through Dunraven Pass will be opened to travel about June 19th. All roads were opened to travel on or before June 1st last year with the exception of Dunraven Pass and Mt. Washburn. (The north entrance was opened on May 16th, the west entrance on May 17th, the south entrance on May 29th and the east entrance on June 1st.) There was no tourist travel during the month of May this year with the exception of a few visitors to park headquarters via the north entrance.

The road from Mammoth to Tower Falls ani from Old Faithful to West Yellowstone was opened by concessioners with motor trucks on May 1st and 2nd. The road from Mammoth to Norris and Madison Junction was opened for necessary travel on May 16th. The first motor vehicle to reach Cooke City this season arrived at its destination on May 18th.

The ice on Yellowstone Lake began to break up on the 17th and largely disappeared within a week.

500 - Use of Park Facilities by the Public

510 - Increase or decrease of travel

All park travel prior to June 1st has been via the north entrance station. It has consisted principally of local visitors to park headquarters. This travel has been registered at the north gate throughout the month, showing a total of 139 visitors in 46 cars as compared with 2259 visitors in 809 cars during the month of May last year ani 552 visitors in 194 cars during May 1925. The total preseason travel to date consists of 1724 visitors in 620 cars as compared with 3086 visitors in 1033 cars during the same period of preseason travel last year, and 1733 visitors in 587 cars prior to June 1st, 1925.

520 - General weather conditions

TEMPERATURE: Monthly mean, 41.0°, is 6.4° below normal, and with one exception the lowest May average since the record began in 1887. Except for 3 or 4 days of moderately warm and mostly fair weather near the middle of the month, decidedly cold and stormy weather prevailed with temperatures consistently below normal. In fact, the unseasonably cold, wet, stormy April and May of this year, constitutes one of the most backward springs of record.

PRECIPITATION: Total, 2.96 inches, is 1.05 inches above normal, and has been exceeded but three times in May during the 40-year period of record.

[illegible] - Miscellaneous

Some conditions prevented tourist travel to the park interior prior to June 1st. The rainy of [illegible] began at the [illegible] and most [illegible] on this date. Travel conditions are fairly good between the [illegible] and west entrance stations with side trips to [illegible] and Yosemite Falls. The road from Merced to Yosemite and [illegible] will probably be opened about [illegible] 10. Travel between Old Faithful and [illegible] will be permitted on or about June 25th. The road from [illegible] to Tower Falls [illegible] and from Tuolumne Meadows to Tower Falls through Dangerous Pass will be opened in [illegible] about June 15th. All roads were opened to travel on or before June 1st last year with the exception of Dangerous Pass and [illegible]. Snowfall was [illegible] on July 1st, the west entrance on July 15th, the south entrance on July 25th and the east entrance on June 1st. There was no [illegible] travel during the month of May this year with the exception of a few [illegible] to park headquarters via the north entrance.

The road from Lembert to Tower Falls and from [illegible] to Tower Falls [illegible] to travel on July 1st and 2nd. The road from Lembert to Merced and Madison Junction was opened for [illegible] travel on July 1st. The first motor vehicle to cross Dunn [illegible] arrived at its destination on July 1st.

The [illegible] Lake began to freeze up on the 17th and [illegible] discovered within a week.

[illegible] - Use of Park Facilities by the Public

[illegible] - Number of Motorists of Travel

All park travel prior to June 1st has been via the north entrance station. It has [illegible] publicity of local visitors in park headquarters. This travel has been registered at the north gate [illegible] the month, showing a total of 1[illegible] visitors in [illegible] cars as compared with 2[illegible] visitors in 1[illegible] during the month of May last year and 7[illegible] visitors in 1[illegible] cars during May 1[illegible]. The total processed travel to date consists of 1[illegible] visitors in [illegible] cars compared with [illegible] visitors in 1[illegible] cars during the same period of previous travel last year, and 1[illegible] visitors in [illegible] cars prior to June 1st, 1[illegible].

[illegible] - General weather conditions

[illegible] January mean, [illegible], is [illegible], and this was accepting the lowest day average since the record began in 1[illegible]. Except for 2 or 4 days of moderately warm and mostly fair weather that the middle of the month, [illegible] was almost average weather [illegible] with temperatures [illegible] by below normal. In fact, the unseasonably cold, wet, stormy April was [illegible] of this year, constituting one of the most inclement periods of record.

[illegible] total, [illegible] inches, is [illegible] above normal, and has been exceeded but three times in the entire 60-year period of record.

SNOWFALL: Total, 13.8 inches, is more than three times the normal amount, and is the greatest in the May record, with the exception of 18.8 inches in 1892.

WIND: Average hourly velocity 8.3 miles; normal 8.0 miles. The maximum velocity for a five-minute period was 54 miles per hour from the south on the 17th, with an extreme velocity of 70 miles per hour for one minute. The previous maximum velocity for all months of record was 54 miles from the south on March 14, 1921.

SUNSHINE: Percentage of possible 28; normal 54. The month received 26% less sunshine than any other May since the Weather Bureau record began 24 years ago. Number of days clear 0, partly cloudy 11, cloudy 20, with .01 inch or more precipitation 19. This is the only May of record without a clear day. The average May has 6 clear days, 13 partly cloudy, and 12 cloudy.

521 - Snow Depths: Under date of June 1 detailed report was submitted to the Director covering this subject.

540 - Special Visitors:

On May 27th Mr. H. J. Heuver, Bureau of Fisheries Representative at Lake Yellowstone, arrived in the park via Gardiner. He has a crew of about 10 men.

Mr. C. A. Snyder, Montana Plant Superintendent of the Mountain States Telephone & Telegraph Company, Helena, Mont., came in via Gardiner on May 26th. Mr. Snyder was accompanied by Mr. C. J. Herman of the Helena division of the above company, and Mr. Murray MacNeill of the Denver office. They went to Old Faithful on the 27th returning the same evening, and had a conference with Superintendent Albright and Mr. Nichols of the Yellowstone Park Hotel Company regarding telephone service.

Mr. R. C. Reamer, Architect of Seattle, Washington, accompanied by Mr. Paul N. Carlson and a Mr. Sullivan, contractors of Spokane, Wash., entered the park at Gardiner on the night of May 27th and proceeded to Old Faithful on the 28th. These men built the Milwaukee Hotel at Gallatin Gateway and have the contract to build the addition to Old Faithful Inn. They spent the night of the 28th at Mammoth and left via Gardiner on the morning of the 29th. Mr. Reamer is the architect who designed Old Faithful Inn and the Canyon Hotel. He will design the addition to Old Faithful Inn.

Gravitia. Total, 14.8 inches, is more than three times the normal amount, and is the greatest in the dry period, with the exception of 14.0 inches in 1926.

Wind: Average hourly velocity 5.7 miles; normal 8.0 miles. The maximum velocity for a five-minute period was 24 miles per hour from the south on the 17th, with an extreme velocity of 30 miles per hour for one minute. The prevailing maximum velocity for all months of record was 34 miles from the south on March 14, 1929.

Humidity: Percentage of possibly 24: normal 14. The month received the least sunshine that any other dry month the heavier rainfall began 24 years ago. Number of days clear 0, partly cloudy 11, cloudy 20, with .01 inch or more precipitation 19. This is the only dry of record of which a clear day, the average dry has 5 clear days, 11 partly cloudy, and 14 cloudy.

XII - Some Incidents: Under date of June 1 detailed report was submitted to the Director covering this subject.

XIV - Special Visitors:

On dry 17th Mr. M. L. Lerner, Bureau of Financial Representative of Loew Enterprises, arrived in the port via Carrizo. He has a show of seven in mos.

Mr. G. L. Snyder, Boston Film Representative of the Kunsala Radio Telephone & Telegraph Company, Tokyo, Japan, came in via Carrizo on dry 23rd. Mr. Snyder was accompanied by Mr. L. Lemon of the Tokyo division of the same company, and Mr. Irving Lenhill of the Denver office. They came to Old Tokyo on the 27th returning the same evening, and had a conference with Superintendent Albright and Mr. Minoda of the Tokyo-Kyoto Radio Telephone Company telephone service.

Mr. E. C. Lemon, President of Seattle, Washington, accompanied by Mr. Paul H. Darling and a Mr. Williams, engineers of Spokane, Wash., arrived the port of Carrizo on the night of dry 27th and proceeded to Old Tokyo on the 28th. Mr. Lemon was built the Tokyo-Kyoto Radio Telephone Company has contract to build the station to Old Tokyo. They spent the night of the 28th at Kamuro and left via Carrizo on the morning of the 29th. Mr. Darling is the president and Mr. Lemon the vice president of the Tokyo Corp. He will design the station to Old Tokyo Ian.

900 - Miscellaneous

Hospital and medical service: Dr. Richard R. Brady, the Resident Physician, reports 46 office calls and 56 house calls during the month.

Post Office: Work in the post office showed a marked increase over the winter months, due to influx of employees coming in for the tourist season.

Church Services: Episcopal services were held in the Chapel by Rev. John F. Como, evening of May 8th and morning of May 22nd. English Lutheran services were held by Rev. Webster H. Clement on Wednesday evening, May 4th, in the lodge room at Park headquarters. Methodist services were held in the lodge room evening of Wednesday, May 25th, by Rev. Otto G. Ponath. Tentative arrangements for regular Sunday services in the chapel were made, for final approval and publication later.

Gros Ventre flood: On May 18th a flood, caused by the breaking of the Gros Ventre dam in the Gros Ventre river in the Jackson Hole country, wiped out the town of Kelly, Wyoming, taking a toll of six lives and leaving 50 families homeless. The six persons who lost their lives were caught in a wall of water 20 feet high, released when the dam, formed by a slide June 24, 1925, from Sheep Mountain, went out under pressure from melting snows.

The entire town of Kelly, built on the river bottom lands and having a population of 75, was wiped out. The wave of water took everything before it and piled up a raft of timber more than 200 feet in length. As these piled up against bridge after bridge en route down the Gros Ventre and Snake Rivers, the wave flattened out over the lowlands and by the time the water reached Idaho Falls its force practically had been spent.

The Forest Service reports the Swan valley bridge, a span of 400 feet, torn loose, while the approaches to Jackson bridge have been washed away. Several smaller bridges were carried away and access to the immediate vicinity of the washout is impossible. The road damage is estimated at $75,000.

Governor Emerson inspected the slide and the channel the river cut through the slide material. He stated that this channel was at least 500 feet in width and about 70 feet deep. He does not believe that the valley has any more to fear from floods for in his opinion any small slides which may block the new channel will be washed out before any great quantity of water will accumulate in "Catastrophe" Lake. We hope the Governor's opinion is correct.

What caused the flood? There are two theories, the first is that the south side of the slide area which filled last was mainly made up of loose materials, mainly yellow clay and sandstone, and that the natural seepage water so saturated this material that the high water pushed the great mass of this material out bodily letting the flood down. The other theory is that a slide which came in from the north sent a wave of water over the slide and that this rush of water carried enough of the soft material on the south side away to start the water through and that thereafter the water washed rapidly enough to cause the flood.

300 - Miscellaneous

Commercial and political services: Dr. Edward S. Grady, the meteorologist, reports [illegible] airline and [illegible] Dennis Daily during the month.

Post Office: Just in the past week we closed a contract between over the weather service, and is failing at employed coming in for the postal service.

Charter Services: Pilotless services were held in the Chapel by Rev. John H. Owen, minister of Day Ok and morning of Day Ok. Regular Sunday services were held by Rev. Theodor R. Clement on Saturday evening, Day 4th, in the lodge room at Fort Dodge[illegible]. Regularly scheduled services were held in the lodge room evening of Saturday, May 8th, by Rev. Otto S. Powers. Currently arrangements for regular Sunday services in the chapel were made, for final approval and publication later.

Fire Bombs Flood: On May 18th a flood, caused by the breaking of the dam further down in the Fontes River in the Indemen this country, slipped out the town of Daily, Wyoming, taking a toll of six lives and leaving 20 families homeless. The six persons who lost their lives were caught in a wall of water 30 feet high, released when the dam, formed by a slide June 24, 1925, from deep Mountain, went out water pressure from melting snows.

The entire town of Daily, built on the river bottom lands and having a population of 75, was wiped out. The force of rushing land swept before it and piled up a mass of stones and [illegible] 500 feet in length. In front piled up against bridge after bridge as it rolls down the Fontes Indian Ocean River. The dam flattened out over the Indiana and by the time the water reached Lake Falls its force practically had been spent.

The Forest Service reports the Deer Valley bridge, a span of 400 feet, here lower, while the approaches to Jackson bridge have been washed away. Several smaller bridges were carried away and access to the Lakeside vicinity or the mountain is impossible. The road damage is estimated at $75,000.

Governor Dodson inspected the slide and the channel the river cut through the slide material. He stated that this channel was at least 250 feet in width and about 70 feet deep. He does not believe that the valley has any dam to keep from flooding for it is quicksand and small slides which may block the new channel will be washed out before any great quantity of water will accumulate in "Waterstopper" lake. We hope the Governor's opinion is correct.

That caused the flood there are two theories. The first is that the south side of the slide area which filled last was mainly made up of loose material, mainly yellow clay and gravelstone, and that the natural seepage water so saturated this material that the high water pushed the great dam of this material out bodily letting the flood down. The other theory is that a slide which came in from the south took a dam of water over the slide and that this dam of water carried enough of the soil material on the south side away to start the water through and that therefore the water gained rapidly enough to cause the flood.

In an address at Jackson the Governor made the statement that the total damage done by the waters was in the neighborhood of $500,000. Included in this is highway and ditch damage. Livestock losses are estimated at $25,000 and the losses in ranch improvements, ruined lands, personal property, etc., are estimated to be in the neighborhood of $300,000.

Very truly yours,

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

Superintendent.

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In an address at Jackson the Governor made the statement that the total damage done by the waters was in the neighborhood of $300,000. Included in this is highway and river damage. Livestock losses are estimated at $[illegible],000 and the losses in ranch improvements, range land, personal property, etc., are estimated to be in the neighborhood of $300,000.

Very truly yours,

The Director,
Bureau of Public Roads,
Washington, D.C.

Superintendent.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE National Park for the Month of MAY 1927

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
RIVATE TRANSPORTATION:						
ars first entry	46	620	809	1033	413	.40
ars reentry						
otorcycles						
Total motor vehicles	46	620	809	1033	413	.40
ersons entering via motor vehicles	139	1724	2259	3086	1362	44
ersons entering via other private transportation						
Total persons entering via private transportation	139	1724	2259	3086	1362	44
THER TRANSPORTATION:						
ersons entering via stages						
ersons entering via trains						
ersons entering otherwise						
Total other transportation						
GRAND TOTAL ALL VISITORS	139	1724	2259	3086	1362	44

	This Year	Last Year	Increase	
			Number	Percent
utomobiles in public camps during month				
ampers in public camps during month				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

[illegible] National Park for the Month of [illegible]

	This Month	Total Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
PRIVATE TRANSPORTATION:						
To first entry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
To remain						
Overnight						
Total motor vehicles	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Persons entering via motor vehicles	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Persons entering via other private transportation						
Total persons entering via private transportation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PUBLIC TRANSPORTATION:						
Persons entering via stages						
Persons entering via trains						
Persons entering otherwise						
Total other transportation						
GRAND TOTAL ALL VISITORS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	This Year	Last Year	Increase Number	Increase Percent
Overnight 1/ Public camps during month				
Open to public camps during month				

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of MAY 1927

	This Month	This Month Last Year
Number of employees beginning of month,	66	66
Number of additions, ...	3	1
Total, ...	69	67
Number of separations, ...	3	3
Number of employees close of month, . . .	66	64
Number of promotions during month	0	0
Aggregate amount of annual leave taken,	151	111-1/2
Aggregate amount of sick leave taken,	12	---
Aggregate amount of leave without pay,	--	---

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yellowstone National Park for the Month of May 1947

	This Month	This Month Last Year
Number of employees beginning of month,	66	66
Number of additions, ...	3	1
Total, ...	69	67
Number of separations	3	3
Number of employees close of month, . . .	66	64
Number of promotions during month	0	0
Aggregate amount of annual leave taken,	15	111-1/2
Aggregate amount of sick leave taken,	12	---
Aggregate amount of leave without pay,	--	---

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

YELLOWSTONE National Park for the Month of MAY 1927

	This Year	Last Year
rk revenue on hand beginning of month	00	00
ceived	55.36	382.25
Total	55.36	382.25
mitted	55.36	382.25
hand close of month	00	00

rk revenues received this year to date	$ 216,374.74
rk revenues received last year to date	343,182.57
~~Increase~~ Decrease	126,807.83
Percent of increase	

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of May 1927

	This Year	Last Year
Revenue on hand beginning of month	00	00
Received	55.36	382.25
Total	55.36	382.25
Paid	55.36	382.25
Balance close of month	00	00

Revenues received this year to date	$ 216,374.74
Revenues received last year to date	343,182.57
Decrease	126,807.83
Percent of increase	

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of May 1927

	This Month	This Month Last Year	Increase	Percent Increase
OCAL BUSINESS				
iles of circuit maintained	391	363	28	.077
o. of telephones connected	141	138	3	.021
o. of measured service calls				
o. of other local calls				
otal No of local calls	9663	11711	-2048	-17
eak load in calls per day	489	584	95	-16
eceipts from measured service calls				
eceipts from coin boxes				
eceipts from telephone rental				
TOTAL RECEIPTS				
ONG DISTANCE BUSINESS				
o. Outbound calls	127	202	-75	-37
o. Inbound calls	203	273	-70	-25
TOTAL LONG DISTANCE CALLS				
eak load in calls per day	29	25	4	16
eceipts from Long Distance business	60.46	74.46	14.00	-17
ELEGRAPH BUSINESS				
essages via Western Union				
essages via				
TOTAL MESSAGES				
eceipts from telegraph business				
o. of money transfer messages				
o. of money transfer receipts				
OTAL RECEIPTS TELEPHONE & TELEGRAPH DEPT-				

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

SUMMARY OF TELEPHONE AND TELEGRAPH BUSINESS

Yellowstone National Park for the Month of May 1927

	This Month	This Month Last Year	Increase	Decrease
AL BUSINESS				
of circuits maintained	3?1	5?3	28	.077
of telephones connected	141	138	3	.021
of measured service calls				
of toll calls				
No. of local calls	9?63	11?11	-1?48	-17
Load in calls per day	419	584	35	-16
ipts from measured service calls				
ipts from coin-boxes				
ipts from telephone rental				
TOTAL RECEIPTS				
LISTANCE BUSINESS				
outgoing calls	127	202	-75	-37
incoming calls	203	273	-70	-25
TOTAL LONG DISTANCE CALLS				
Load in calls per day	33	29	4	16
ipts from long distance business	40.45	74.45	34.00	-17
TGRAPH BUSINESS				
ages via Western Union				
ages via				
TOTAL MESSAGES				
ipts from telegraph business				
of money transfer messages				
of money transfer receipts				
AL RECEIPTS TELEPHONE & TELEGRAPH DEPT-				

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE National Park for the Month of MAY 1927

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
Current generated, ...	49930.0	640862.0	45770.0	611250.0	29612.0	.04
Sold to park operators, . . .	2272.8	83405.3	2574.8	78139.4	5265.9	.06
Sold to others, ...						
Furnished to other Governmental agencies, ...						
Used by National Park Service, lost in transit, etc., . . .	47057.2	557456.7	43195.2	533110.6	24346.1	.04
Total current generated, . .	49930.0	640862.0	45770.0	611250.0	29612.0	.04

Amount receivable from the sale of electricity, ... $ 113.64

* Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yellowstone Nat'l Park

Report of Superintendent of Yellowstone 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	Increase for Travel Year Percent
Current generated, ...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Used to park operators, . . .						
Used to others, ...						
Transmitted to other Governmental Agencies, ...						
Used by National Park Service,	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Lost in transit, etc., . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total current generated, . .						

Amount receivable from the sale of electricity, ... $ 115.64

Indicated by K. W. H.

June 14, 1927.

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

Dear Mr. Director:

There are enclosed herewith Circulars 2, 3, 4 and 5, and Meteorlogical Summary, which please attach to the monthly report for May, 1927.

Very truly yours,

HORACE M. ALBRIGHT
Asst. Superintendent.

Inclosures.

June 17, 1947.

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

Dear Mr. Director:

There are enclosed herewith Circulars 2, 3, 4 and 5, and Meteorological Summary, which please attach to the monthly report for May, 1947.

Very truly yours,

Incloseures.

[illegible]
Asst. Superintendent.

Department of the Interior
National Park Service
Yellowstone National Park

May 24th 1927

OFFICE OF THE SUPERINTENDENT

Circular Number 2.

To All Park Rangers

No ranger will be allowed to travel outside his own Station District and visit other sections of the park, on either Official or Unofficial business, without a regulation travel order. No such order will be issued except by authority of the Chief Ranger's Office.

Travel orders are issued to each station and are numbered consecutively. When a man is going to travel from one station to another in the park permission will be secured from the Chief Ranger's Office and if such permission is granted the station chief will issue the required travel order and will indicate whether the trip is official or unofficial.

As soon as the trip is completed the travel order will be returned to the Station Chief who will promptly mail it to the Chief Ranger's Office. He will also indicate the time of the beginning and the ending of the trip, and the purpose of the same.

The ranger in charge will be held responsible for prompt returns on all travel orders issued by him, Credit will not be given for meals authorized by travel orders until return has been made to the Chief Ranger's Office.

SIGNED. HORACE M. ALBRIGHT
Superintendent.

Department of the Interior
National Park Service
Yellowstone National Park

May 24th 1927

OFFICE OF THE SUPERINTENDENT

Circular Number 3.

To All Park Rangers

From and after this date and until further notice rangers will not be paid by the Government for meals served to other rangers or any park employees.

There are road camps in the vicinity of each Station, and rangers, truck drivers and other Government employees will be directed to these camps for their meals.

Rangers traveling on official status, will upon presentation of travel order be furnished with meals at road camps free of charge, provided they comply strictly with the conditions of the travel order which requires the signature of the cook for all meals served with the date of the service indicated in the proper column.

Rangers will not be credited for meals served them while traveling on official status until the travel order has been received at the Chief Ranger's Office.

SIGNED. HORACE M. ALBRIGHT,
Superintendent.

Department of the Interior
National Park Service
Yellowstone National Park

May 24th 1927.

OFFICE OF THE SUPERINTENDENT

Circular No. 4.

To All Park Rangers

Motorcycle rangers will be governed by the provisions of Circular No. 3.

They will be charged at the approved rate for meals served them at road camps in their own Districts, but when traveling on Official status to points outside their station districts will, upon presentation of travel order, be furnished with meals at road camps free of charge provided they comply strictly with the conditions of the travel order.

The Government will not pay for meals served them at ranger stations, except by special authority of the Superintendent.

SIGNED. HORACE M. ALBRIGHT,
Superintendent.

Department of the Interior
National Park Service
Yellowstone National Park

May 25th 1927

OFFICE OF THE SUPERINTENDENT.

Circular No. 5

To All Park Rangers

The attention of all rangers is called to paragraph 41 of the Manual for Park Rangers:-

"Unusual Events:- Special Reports. Unusual occurrences such as accidents, deaths, changes in natural phenomena, etc., will be reported at once to the Chief Ranger's Office by phone.

This should be followed by a detailed written report of the same. This is an important duty in connection with the ranger work.

It is necessary that complete record be kept of all occurrences of this character, and especially in the case of accidents resulting in personal injuries or death.

Rangers will immediately investigate all reports of accidents or deaths; they will proceed at once to the scene of the incident and gather full details by interviewing the parties involved. The names and addresses of all persons in interest, and witnesses should be included in the written report to the Chief Park Ranger.

Statements of the witnesses of the event are especially valuable and should be taken at once in writing".

Do not fail to report special incidents involving only slight personal injuries or minor damages to property, as complications often result from occurrences that might be considered of no importance. The telephone report is desired only in order that we may keep in touch with events in the park, but the written report of the ranger or rangers who make the investigation is necessary for record purposes.

Rangers should never rely on second hand information, but should interview the people concerned.

In addition to the cause, time and place of events resulting in personal injuries or death the name and address of the attending physician, if any, is required and a full written report of all obtainable information should be promptly submitted to the Chief Park Ranger's Office.

SIGNED. HORACE M. ALBRIGHT,
Superintendent.

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