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10-23 (June 194.)

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

FILE NO. 207-02.3

SUPER INTENDENT'S MONTHLY REPORT

JULY 1950

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#### IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge.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

NEWTON B. DRURY,

U. S. GOVERNMENT PRINTING OFFICE 16-22371

Director.

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

OFFICE OF THE SUPERINTENDENT

Summary of the July 1950 Monthly Narrative Report for YELLOWSTONE NATIONAL PARK

Page Unusually cool wet weather. Maximum 84°, minimum WEATHER: 35°. Good plant-growing month. 1 SPECIAL Rogers to Bozeman library, to Gallatin meeting with Task Force group, to West Yellowstone re. airport ACTIVITIES : with Mattson & Johnston. 6-day week. Work July L. Steno-Typist exam. Two deaths by exposure when bost overturned. 1 Auto accident resulting in death. Park consus 304. Hamilton Lake Store robbed, two apprehended. Dan Bigelow awarded hay contract. Yellowstone 106% of Bond Drive quota. Awards presented Eri A. Allan, retired, by Mr. Merriam. Coast & Geodetic Survey begun. Child lost overnight near Indian Creek. 2 C. T. Houston, Fred A. Fetter, Jr., Dudley P. INSPECTIONS : Barnette, Gerald FitzGerald, Fred J. Overly, J. M. O'Brien, E. B. Lewoy, Wa. Pineus, Palmer Smith, . Leonard Steward, Charles Tebbe, R. D. Mielson, R. E. Morgan, Charles Genaux, Ray Harmon, Pete Hanson, Mm. W. Fee, Melvin Borgeson, Maynard Barrows, Albert R. Stocker, Lawrence C. Merrian, Benjamin F. Dickson, Thomas Parker, John W. Dixon, C. T. Wright, Faul McG. Miller, Willard P. Lindauer, C. L. Nutzman, Delano Brusstar, Charles Schuster, W. G. Banister, Harvey G. McAndrews, Thomas W. May and Walter H. DeVaan in. 3

- IN-SERVICE 717 man-hours training Protection Division. Patrol TRAINING: 717 man-hours training Protection Division. Patrol training. Seasonal ranger training; talk by Condon. Naturalist talk analysis with tape recorder. Training filma. 4
- PUBLICITY: Stories to presses on drownings and auto accident. Illustrated article in Holiday Magazine. 245,500 broadsides on hand.

COMPLAINTS: Four letters of complaint received.

PLANS, MAPS, AND SURVEYS: AND SURVEYS: AND SURVEYS: And auer inspect roads. DeVaan in. Airport surveys, West Yellowstone.

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

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MAINTENANCE :	Wet weather caused delays in maintenance and more breaks. Considerable snow fell high places 2 week ends; East closed & plowing necessary Red Lodge road. Many men gone for military service & to other projects; difficult replace. All crews operating, average 145 men. New rock crusher = Caterpillar grader received.	the full state of the second se
	Contar Barance Parance a socartors	2
NEW CONSTRUCTION:	Progress on two south entrance projects. Other projects listed.	5
CONCESSIONERS :	Record house counts. Lake Cottages opened. Doctor placed at Old Faithful.	6
RELIGIOUS SERVICES AND CHAPEL USE:	Regular church services. Special program by Princeton Seminary Choir.	7
INTERPRETIVE SERVICES:	Public address system at Old Faithful. Attention to 3 Eagle Scouts here studying conservation. Party of 60 blind people guided by Condon.	7
	Drew Chick of Nat'l Capital Parks talked on those parks. Party of 250 Boy Scouts conducted on speci- trip. Self-guiding nature trails; plastic spray on labels at Norris. Old frames prepared for naturalist announcements.	<b>a.1</b> 8
MUSEUM ACTIVITIES AND EXHIBITS:	Considerable herbarium work. Gut flower exhibits popular. Museums well attended.	8
RESEARCH AND OB- SERVATION:	Increased thermal activity West Thumb. Twin geysers very active. Research by Armitage on limnology of Firehole River.	2
	Research by Schroeder on small mammal ecology Mt. Washburn. Plant collecting permit. Antelope observations; "baby sitter". Canadian geese, trumpeter swan observed. Trips to Molly Islands; banding; 2 bands from elsewhere; debris Found. Bear with bucket rim collar. Bear fight. Replogle research on location old Bannock Trail.	10 <b>-13</b>
NATURAL HISTORY ASSOCIATION:	Book sales itemized. List prepared. Clerk & Librarian employed all month. Nature Notes.	13
INCREASE OR DE- CREASE IN TRAVEL:	386,306 persons compared to 386,387 last July. 1.6% decrease season-to-date. North Entrance greatest gain. Loss South due construction.	14
VISITORS :	Louis Sobol, Lionel Shapiro, Dr. Edward Rynearson, Carl Strom, Wm. Stephenson, Senor Jose Aguinaga, Arthur Burgess, Ralph Lavers, Emerson H. Thomas, Raoul Elumberg, Ingemar Hagglof, W. C. Asbury, Gov. John W. Bonner, Kota Hoketsu, Dr. A.L.Cornet,	

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RANGER SERVICE:	Entrance duty, law enforcement, trails, forest fires, highway patrolman training, forest fire dispatching training, etc.	15
WILDLIFE AND FISH CULTURAL ACTIVI- TIES: BEARS:	11 injuries; 7 property damages. Bear killed by auto. 11 bears moved. Grizzly cub seen several times along read.	15
FISH:	Trout eggs taken. Suckers destroyed. Fish plants listed. Fishing poor some places. Fish population to benefit from new boat regulations.	15
FOREST FIRE PRO- TECTION:	4 reportable fires suppressed & 7 went out. Nork of trail crew. Training. Supervision Divide Trail.	16
WOOD UTILIZATION:	Wood crew cutting for campgrounds and larger crew at Lava Creek for winter supply.	s.
BLISTER RUST COMTROL:	200 acres worked and 240 reworked; total eradicated 99,960 plants. Out in crew may be necessary.	1
BUILDING FIRE PROTECTION:	Annual building fire hazard inspection report written. Follow-up inspection of hotels, etc., excellent condition. Lake Hotel engine room caught fire. Overhead extinguishers being tried. Build- ing fire instruction given seasonal ranger.	1,
TRAILS :	Work done by crew.	17
MOTOR VEHICLE ACCIDENTS:	60 traffic accidents, 23 Class A, 36 Class B, 1 Class C, with death of Teresa Prasch of Minnesota.	18
LAW ENFORCEMENT :	81 law enforcement cases tried, listed by classi- fication. Robbers of Hamilton Store apprehended. Driver of car in which one killed charged with involuntary manslaughter. Yellowstone Park to be	
	under Butte Division of FBI.	15
BIRTHS :	Son born to Mr. & Mrs. Willis Stanton.	18
DEATHS :	Val Galle, father of John Galle; Adolph R. Anderson, tourist; Henry Peterson, retired Automobile Mechanic Oliver Schmoker and Zeller Ellen Hensley, boat accident victims; Teresa Prasch, auto accident victim.	
PERSONNEL:	Park Ranger Wykert returned from Teton on insect control assignment. Most seasonal rangers entered on duty first of July.	19

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

OFFICE OF THE SUPERINTENDENT

August 8, 1950

Memorandum

To: The Director

From: Superintendent, Yellowstone National Park

Subject: Monthly Report for July 1950

Following is the report of activities for Yellowstone National Park during the month of July 1950.

Weather Conditions. Unusually cool and wet weather provailed during the month with 3.14" of precipitation as compared with 0.50" in July 1949 and the previous five-year average of 0.96". Precipitation fell on 15 days during the month. Temperatures were below normal all month with a maximum of 84° being recorded on the 1st and 6th and a minimum of 35° occurring on the 31st. Grass and plant life experienced a good growing month and remained green all month except for the species which had cured.

Special Activities. Superintendent Rogers want to the library in Bozeman on July I in connection with his project covering the legislative history of the National Park Service areas. On July 15 he made a trip to the Gallatin area of the park with Regional Director Merrian to meet with members of the Budget, Agriculture, Interior Task Porce to discuss park matters, returning with them to Mammoth that night. He attended a meeting at West Yellowstone on the evening of July 18 with Messrs. Johnston and Mattson in connection with the proposed new West Yellowstone airport.

The park started operating on a 6-day week for practically all of its crews beginning July 1. The work will continue on this basis until about the middle of September. Permanent employees and per amum seasonal employees are working on a 5-day week. All employees except those who requested to be excused worked on the July 4 holiday.

The Local Civil Service Board held an examination for Stenographer-Typist on July 6. There was one competitor. Mr. Proper conducted the typist and clorical parts of the examination and Mr. Joffe the dictation.

The first serious accident of the season occurred on July 6 when Oliver Schnoker, 37, Bell Captain at Old Faithful Inn, and Miss Zeller Ellen Hensley, 36, Waitress at Old Faithful Inn, died as a result of exposure when their boat capsized in a storm at West Thumb that evening.

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

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Victor J. Nelson, Chief Clerk at Old Faithful Inn, the third member of the party, was rescued while hanging on to the overturned boat and survived the experience.

The first serious automobile accident of the season occurred on the night of July 27, resulting in the death of Terosa Prasch, 20, of Sauk Centre, Minnesota, and injury to the five other occupants of the car. The car, driven by Irving Doely of Bozeman, Montana, failed to negotiate the turn onto the bridge seven miles east of West Yellowstone on the Madison Junction, West Yellowstone road, plunging the car into the Madison River and pinning Miss Prasch underneath. All of the other occupants of the car were employees at Lake and Miss Prasch was visiting one of the girl occupants of the car. The driver of the car was charged with manslaughter because of the accident.

The Bureau of Census, Sheridan, Wyoming, advised on July 10 that the total population for the park as determined from the census conducted in April was 34 persons.

The Hamilton Store at Lake was entered and robbed on the night of July 15. William Weaver and Gilbert Love, employees at the Hamilton Stores at Lake and Fishing Bridge, were apprehended the following day in connection with the burglary and bound over to the District Court in Cheyenne for trial. They were released on bail.

Dan Bigelow of Gardiner was awarded the hay contract in the Lamar Valley on July 17.

The Independence Bond Drive, which covered the period from May 17 to July 17, again showed the Yellowstone meeting its quota. When the drive closed Yellowstone purchases amounted to 106% of its quota of \$5,000.

On July 20 Regional Director Merriam presented a Citation of Commendable Service, Certificate of Honor Award, a Lifetime Pass to Areas of the National Park System, a Commendable Service Medal and Lapel Button to Eri A. Allan, who retired as a Powerhouse Operator on March 31, 1950. Superintendent Rogers, Administrative Assistant Joffe, Chief Ranger Skinner, and several members of the Protection Division were present at the presentation in the Superintendent's Office.

Crews from the U. S. Coast and Geodetic Survey began a survey in the park on July 24 to establish control points from which a new map of the park will be made.

Considerable excitement prevailed on the night of July 30 when 5-year-old Diana Hiatt of Eugene, Oregon, became separated from her parents who were camped at the Indian Creek Campground and were fishing in the Gardiner River. Ten members of the Protection Division searched

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and and a second sec Second all night for the missing girl and failed to find her. A crow of 28 additional National Park Service men was organized the following morning to continue the search and just as they were getting started to comb the area the little girl was picked up about 9:00 a.m. by tourist Murtaugh of Orville, Chio, near Apollinaris Spring some  $2\frac{1}{2}$  miles south of where she had become lost. She had spent the night in the tall grass of Willow Park but was none the worse from her experience.

Inspections. C. T. Houston, Inspector, Post Office Department. Denver, Colorado, in July 3; out 10. Fred A. Fetter, Jr., Personnel Placement Officer, Division of Personnel Management, Secretary's Office, Washington, D. C., in July 4, out 5. Dudley P. Barnette, Chief, Reproductive Branch, Coast and Geodetic Survey, Washington, D. C., in July 8, out 9. Gerald FitzGerald, Chief Topographic Engineer, U. S. Geological Survey, Washington, D. C., in office July 10. Fred J. Overly, Chief, Real Estate Branch, N. P. S., Washington, D. C., in and out July 11. J. M. O'Brien, Project Manager, Independence National Historical Park Project, Philadelphia, Pennsylvania, in July 11, out 12. E. B. Lewey, Commander, U. S. Coast and Geodetic Survey, Washington, D. C., in office July 12. William Pincus and Palmer Smith, Bureau of the Budget, Washington, D. C., Leonard Steward and Charles Tebbe, Department of Agriculture, Washington, D. C., R. D. Nielson and R. E. Morgan, Bureau of Land Management, Billings, Montana, Charles Genaux, Department of Interior, Washington, D. C., and Ray Harmon and Pete Hanson, U. S. Forest Service, Missoula, members of the Budget, Agriculture, Interior Task Force party, in July 15, out 16. William W. Fee, Princeton University, making study of Department's field organization for Secretary of Interior, in July 14, out 18. Melvin Borgeson, Chief, Planning Branch, Airport Division, CAA, New York City, in July 12, out 18. Maynard Barrows, Forester, Region Two, in July 17, out 20. Albert R. Stocker, Architect, National Park Service, Region Two, in July 19, out 21. Lawrence C. Merriam, Regional Director, Region Two, in North July 12, out 20. Benjamin F. Dickson, Regional Chief of Public Services, Region Two, in July 12, out 20. Thomas Parker, Department of State, Washington, D. C., in July 18. John W. Dixon, Director, Branch of Project Planning, Bureau of Reclamation, Washington, D. C., in July 18, out 20. C. T. Wright, Regional Engineer, U. S. Public Health Service, Denver, in July 16, out 21. Paul McG. Miller, Chief Minor Roads Branch, Planning and Construction Division, National Park Service, Washington, D. C., in July 18, out 22. Willard P. Lindauer, Highway Engineer, Region Two, in July 18, out 22. C. L. Nutzman, Regional Medical Officer, U. S. Civil Service Commission, Washington, D. C., in office July 26. Delano Brusstar, Special Representative of the Director, Fish and Wildlife Service, Washington, D. C., in July 30. Charles Schuster, Landscape Architect, Region Two, N. P. S., in July 19 for month's assignment in Yellowstone. W. G. Banister, Special Agent in Charge, Butte District, F. B. I., in July 20. Harvey G. McAndrews, Sanitary Engineer, U. S. Public Health Service, Denver, Colorado, in July 16 to remain until August 6. Thomas W. May and Walter H. DeVaan, Engineering Aids, Region Two, in July 2 for assignment in Engineering Division.

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In-Service Training. Seasonal personnel of the Protection Division received 717 man-hours of in-service training during July. Most of this consisted of on-the-job training but considerable formal training was conducted during the off-duty hours since the heavy work load at all stations prevents devoting scheduled work time to training. On July 10 fifteen park rangers, including the headquarters staff of the Protection Division, participated in four hours of intensive training for those who operate the patrol cars. This session was devoted to discussion and explanation of safety practices, law enforcement techniques and National Park Service policies.

On July 1 Chief Park Naturalist Condon gave a talk at Lake Butte to the seasonal park rangers who were making a trip around the loop as part of their indoctrination.

The tape recorder of the Yellowstone Library and Museum Association was used several times during the month for the purpose of recording the interpretive programs as presented in the evenings by the Park Ranger Naturalists. Records were made of the master of ceremonies aspect of the evening program and the evening campfire talk. After these talks were presented the Park Ranger Naturalists were given an opportunity to listen to themselves and to make their own observations of inprovements which they might make in presenting the material they do to visitors.

The lomm sound motion picture projector and the kodaslide projectors were used on several occasions during the month for projecting training films and pictures to firefighting crews, fire control aids and other personnel.

Publicity. Stories of the drownings in Yellowstone Lake on July 6 were phoned the AP and UP and the story of the death of Teresa Prasch which occurred in the automobile accident seven miles east of West Yellowstone on July 27 was phoned the AP and UP and a wire thereon was sent the International News.

The August 1950 edition of Holiday Magazine contained a wellillustrated article on the park. The article included four full pages of colored pictures and two pages of black and white pictures.

A total of about 245,500 broadsides of the park for 1950 were on hand at the end of the month.

Complaints. Four letters of complaint were received during the month, as follows: condition of cabins, road conditions, condition of hotel rooms, and charge for medical service and poor lighting in campgrounds.

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Plans, Maps and Surveys. Charles Schuster, Landscape Architect, arrived on July 19 to assist the Resident Landscape Architect. Engineer Paul Miller from the Washington Office and Regional Highway Engineer Lindauer spent the week of July 17-22 making inspections of roads. The Regional Office sent two Engineering Aids, Thomas W. May and Walter H. DeVaan, to Yellowstone to assist on fiscal improvement projects. They arrived July 2. Besides handling surveys and supervision on a large number of active physical improvement projects at Lake, Fishing Bridge and Old Faithful, members of the Engineering Division and the Landscape Architect spent considerable time at West Yellowstone on surveys for the proposed new airport just outside the park at that location.

Maintenance. Above normal wet weather continued through July and caused much delay in reprocessing and sealing operations. The wet weather also caused more pot holes and corrugation, and maintenance crews were somewhat behind in road repairs.

On two week ends, July 23 and 30, considerable snow fell in the high places. The east entrance was closed for a short time on the 30th and plowing was necessary on the Red Lodge road.

About 25 of our men have had to report for active military service and we are finding trouble in getting replacements. The two active road construction jobs on the south approach have also enticed several of our equipment operators away and to date we have been unable to find any replacements. Reprocessing and seal coating work is being pushed as weather permits.

All road crews are still operating as well as four special crews (reprocess, sealing, guard rail and paths). An average of 145 men were employed during the month.

The new rock crusher was received and is being set up and placed in operation. A new Caterpillar grader was also received.

New Construction. Contractors Jones & Hurley on Unit One of the Moran to Yellowstone road have practically completed all clearing burning on their section. Grading operations are underway on the south end. Approximately 5 to 10% of grading is completed.

The second section, Unit Two, under contract to J. J. Dooling of Denver, is moving along at a good speed. From 50 to 60% of clearing is completed and grading operation is getting underway. An unusually wot and late season has helped both contractors with their clearing and burning operations.

Other construction items underway in the park consisted of the following:

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edal or ella a carta la la catala de la catala de la catala. Sel avenues Account 431, Employees Residence, West Entrance .-- Excavation complete, basement complete and some framing underway.

Account 452, Water System, Fishing Bridge Cabin Area.--Complete except for laterals to cabins, which are not yet built.

Account 453, Sewer System Extension, Fishing Bridge Cabin Area. --Work complete except for laterals to cabins which have not been built.

Account 456, Water Line Extension, Hotel Cottage Area, Lake .--- Material on order and about 700 foot water line placed.

Account 457, Sewer Line Extension, Hotel Cottage Area, Lake .--Most material on hand and about 1,000 feet line placed and 5 mains built.

Account 158, Fire meter at Old Faithful .-- Being installed.

Account 459, Fire meter at Mammoth .-- Being installed.

Account 470, Campground Extension, Fishing Bridge and Old Faithful.--50 tables partially completed, 50 fireplaces prefabricated.

Account 470, Sewage Disposal System, Lake Area. -- Excavation for septic tank complete. Some material on order.

Account 471, Utilities, Tables, Fireplaces and Comfort Stations, Old Faithful Campground.--Four comfort stations about 75% completed, about 3,500 feet of water lines in place, about 800 feet sewer lines in place, and four manholes completed.

Account 500, Campground Roads, Old Faithful.--Clearing complete on one loop. Islands laid out and rock barriers placed on approximately one-half of one loop.

Account 502, Construction of Trail Terminus, Grand View .-- Project underway.

Account 503, Construction of Roads and Walks, Fishing Bridge Cabin Area.--Grading begun.

Account 505, Construction of Roads and Walks, Lake Hotel Cabin Area (portion).--Clearing complete; 20% of grading done. Some select base placed.

Concessioners. On July 12 the Yellowstone Park Company set a new record for taking care of over-night guests with 7,918 people being taken care of at all the hotels, lodges and tourist cabins. This record was exceeded on July 19 with a total house count of 7,936 and the alltime high house count was established on July 20 with 8,034 guests.

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The Park Medical Service placed a doctor, Dr. Al Mucelli, at Old Faithful on July 19.

Religious Services and Chapel Use. The regular church services for the Roman Catholics, Latter Day Saints and Protestants have been held at the scheduled hours during the month of July. An intensive program of activities has been carried on by the student ministers with the resident employees of the concessioners and the Park Service. Active choral groups have presented programs at Old Faithful and Manmoth.

A special program of religious significance was the presentation of religious music in the hotel recreation hall on the evening of July 21 by the Princeton Seminary Choir under the direction of Dr. Jones. This program was well received by the large crowd which was in attendance.

Interpretive Services. The public address unit at Old Faithful was placed in use and used throughout the month prior to each daylight eruption of Old Faithful when talks were given by park ranger naturalists. Thousands of people have learned much through being able to hear the announcements and information presented to them by park ranger naturalists at this point.

On July 16 Chief Park Naturalist Condon, and on July 17 Park Naturalist Upton, served as special guides for three Hagle Scouts from North Plainfield, New Jersey. These scouts were Alfred Fox, Kent Brunson and Robert Kreidler. These young men were competing for the William T. Hornaday gold medal award, and their western trip to study conservation was being sponsored by the U. S. Bureau of Reclamation. Mr. Edward M. Joyce, District Information Officer of the Big Horn District at Cody, Wyoming, was in charge of the party, and in addition to the scouts there were Mr. Joyce's son and Mr. Charles Knell, photographer for the Bureau of Reclamation. These young men were given a number of talks on the natural resources of Yellowstone National Park and their significance. They were also given a great deal of information on the national parks ideals, land use policies and National Park Service areas and their significance to the people and as areas where conservation is being practiced in its highest senso. They were taken from the south entrance around the main loop of the park and out the eastern entrance.

On July 18 Chief Park Naturalist Condon served as guide and eyes for a party of 60 blind people who entered Yellowstone Park via the west entrance in two specially chartered buses out of Bozeman, Montana. The blind were having a school at Bozeman and it was determined that a worthwhile experience for these people would be to see Yellowstone Park. They were taken under Mr. Condon's guidance around the lower loop road and back out the western entrance. On this trip Mr.

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Condon talked almost constantly from 9:30 a.m. until 6:30 p.m. and these people were given an opportunity to see considerable and learn a great deal about the natural resources of this area. A special effort was made to get these people to points where they could hear, feel and smell the things about them and a great deal of time was given to a graphic description of the scenic landscape, the hydrothermal phenomena, the vegetative cover, the animal life and the activity of the people themselves. It was felt that this trip was highly successful and that all members of the party had a delightful and educational experience.

On July 23 Mr. Drew Chick, Park Naturalist of National Capital Parks, presented a talk on the National Capital Parks and the interpretive program there to a large audience in the Fishing Bridge amphitheater.

On July 11 Park Naturalists Watson and Marler each conducted a party of 250 Boy Scouts through the Upper Geyser Basin and down as far as Biscuit Basin on a special trip. These boys were scouts from the Los Angeles council returning from the Scout Jamboree held at Valley Forge.

Self-guiding nature trails were in operation throughout the month at Norris, Mammoth and Old Faithful. Plastic spray was used on the trail labels for the Norris area and 90 of these have been placed along the trail. At Old Faithful there are 34 trail labels up and on the Mammoth trail 45. It is hoped that during the month of August people can be stimulated to use these more extensively than they have during July.

During July a large number of oak frames left by the U.S. Weather Bureau some years ago and salvaged by the Naturalist Division were put to good use for framing program announcements of the Naturalist Division activities. Twenty-one of these new sign units were completed at the close of the month and three of these were placed up in the field with the other 18 being in readiness to be installed by or before the 3rd of August.

Museum Activities and Exhibits. At the Norris Museum the drinking fountain has been repaired and is serving a good utilitarian function there.

Under Park Naturalist Upton's direction Miss Mildred Ericson, park ranger naturalist, has added 83 mosses and 3 liverworts to the Yellowstone Park herbarium from the Conard collection. Many plant specimens have been mounted, new folders prepared and cards for the card index file completed as well as other herbarium work accomplished.

The cut flower exhibits at the Fishing Bridge and Mammoth Museums have proven to be very popular with the visitors and groups of people are congregated around these at virtually all times.

All of the park museums have been well attended by the visitors

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and especially so the Mammoth, Norris and Old Faithful museums. Unfortunately the Fishing Bridge museum is removed from the main flow of traffic and does not receive the heavy use that some of the units which have been established on the main loop highway obtain.

Research and Observation. The West Thumb thermal area has shown during the month of July rejuvenated activity. The Twin Geysers which were dormant for a number of years, were active in July of 1949 and erupted with great violence on six recorded occasions, again this year in July have literally gone berserk. It has been necessary to prevent people from getting near them and to build a new walk around them for public use. Their active play has washed away a section of the old walk and has eroded considerable into the soil banks around the geyser vent.

The active phase of these geysers began with a violent eruption on July 1 at about 2:50 p.m. This eruption was followed by 17 more equally violent periods of play when the geyser would erupt to a height of 100 to 120 feet and the duration of play lasted for about two to three minutes. These geysers were domant again from July 8 to July 22 when they again entered an active phase and they have erupted 23 times up to the close of the month. The shortest interval between eruptions during the active phase of these geysers has been 180 minutes and the longest interval 405 minutes. The length of interval between eruptions seems to have no effect upon the duration of period of play nor upon the violence of play.

On the evening of July 28 an unnamed super-heated hot spring located near the parking area on the north end of the Thumb geyser basin erupted. This eruption was of a violent character and indications are that it will probably play more in the future. Black Pool and Abyss Pool have become much hotter and in Abyss Pool the water has become very turbid and there is evidence of the algal growth being killed in some sections of these pools. All in all, the West Thumb thermal area, because of this increased activity, has proven to be exceedingly interesting to the visitors.

The hydrothermal activity in the Upper Geyser Basin is following its customary pattern with most of the major geysers erupting in a similar manner to that which they have in the past. The Giantess Geyser was in eruption on July 2.

Park Ranger Naturalist Kenneth Armitage has been actively engaged in conducting research on the limnology of the Firchole River. Mr. Armitage's problem is one which he is working on for an advanced degree at the University of Wisconsin. Dr. Arthur D. Hasler of that institution thinks that the problem is one which Mr. Armitage will have to work on for at least two seasons and is of such an extent that it will readily qualify for a doctor's degree. A set of as a set of a set

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A collecting permit to collect plant specimens was issued to Dr. Walter P. Cottam, University of Utah.

Antelope have been regularly seen along the north side of the park throughout the month and on July 1 a female was observed serving in the capacity of baby sitter for she had under her supervision and direction seven young kids. This observation was made on Stevens Creek.

On July 2 on a visit to Turbid Lake Chief Park Naturalist Condon observed about 300 Canadian geese congregated there. This large flock of geese have been observed several times during July by other members of the Naturalist Division and were photographed.

The trumpeter swan that have been observed by members of the Naturalist Division during the month of July were as follows: one lone bird on Beaver Lake; the pair at south Twin Lake; a pair on Obsidian Lake, three adults on Grizzly Lake; a pair with two cygnets were observed the fore-part of the month on Swan Lake, but at the close of the month the cygnets have disappeared. A pair with five cygnets were observed early in July on the small lake below Madison Junction, but at the close of the month only four cygnets seem to be left. A pair on a small lake in the Lamar Valley near the junction of the Lamar River and Slough Creek had two cygnets and at the close of the month there is only one left. On Grebe Lake two pair of adult swans were found, but no cygnets were observed although in late June the female was sitting on a nest on the west end of the lake. One adult was observed on Lake of the Woods. Apparently the late spring and adverse weather have had their effect on the nesting success of this species of bird this year.

Most of the nesting osprey which have been observed have been fairly successful in their nesting and there are several pairs with young in the Grand Canyon. The pair nesting on Eagle Nest Rock in the Gardiner Canyon have two young which have proven to be of great interest to the travelers up and down the Gardiner Canyon. There is a pair of these birds which are nesting near the seven mile hole and there are two young in this nest.

On July 7 a trip was made to the Molly Islands in the southern end of Yellowstone Lake for the purpose of making observations on the bird rookeries there and to band sea gulls, Caspian terns, cormorants and pelicans. This party consisted of Robert Upton, Arnold Van Heuvelen, Frank Rentchler, Walter Kittams, Datus Proper, Kenneth Armitage, George Downing, Herrold Asmussen, Kenneth Diem and Dave Condon. The party did not go ashore on the islands because the birds were apparently in the midperiod of their nesting activity. A cruise was made around the island

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 and a study made of them with binoculars. It was determined that there were 87 adult pelicans on the south side of the rocky island and 25 on the north side for a total of 112 pelicans. Of these it was determined that 71 were mesting on the south side and 12 mesting on the north side for a total of 83 birds apparently mesting. Only three young pelicans were observed. There were 23 commonant mests seen with birds using them, and a total of 10 Caspian term were counted. It was thought that seven of these were mesting. There were hundreds of gulls and an estimated 35 to 10 young gulls were seen. On the sandy island there were 27 adult pelicans, 8 of which were thought to be mesting; four Caspian term were seen on this island and there were dozens of gulls. The water of Yellowstone Lake was exceedingly high and it is thought that many of the mests were probably floeded out by high water.

In 1949 a party which visited the island was there on July 9 and at that time all nesting activities were over, many of the young birds were almost feathered out and virtually all of them were exceedingly active.

On July 27 a party again went to the Islands in order to complete the banding operations which it was intended would be accomplished on the 7th. This party consisted of Robert Upton, Lowell Biddulph, Robert Luntey, Arthur Geis, Alma Teuscher, Eddie Joe Brown, Frank Rentchler, Kenneth Diem, Carl Martin, Joe Vance, Wilson Condon, David Biddulph and Dave Condon. Upon the parties arrival at the islands they found that the nesting activities for all species were apparently over and that there were young in considerable numbers on the rocky island, but that there were no young birds, or apparently no concentration of birds on the sandy island. The party went ashore on the rocky island and banded 58 young pelicans, 297 gulls and one Caspian tern. There ware no young cormorants banded because the party did not have bands of the proper size to place on these birds, although there were 35 young cormorants on the island. There was a marked contrast in the numbers of young in the bird colony this year as compared to 1949. All young pelicans were banded and there were only 58, whereas last year 200 pelicans were banded and it was felt that there were 20 or more birds that were not. The estimated population on the islands at the time the party was there as made by the various members of the party totaled up to be 80 adult white pelicans, 1800 gulls, 700 young gulls, 35 young cormorants, 12 adult cormorants, 3 young Caspian terms and 9 adult Caspian terms.

Two bands, apparently from pelicans, were found on the islands and from their general appearance they were not bands that had been placed on pelicans in Yellowstone Park. These were sent to the Fish and Wildlife Service for identification and information concerning them will be presented in next month's report if it is available. In addition to these bands a number of interesting items were found on the islands. Most of these consisted of fishing gear of various kinds which apparently had been lost by fishermen who had hooked fish and had the fish get away.

 These injured or handicapped fish were apparently captured by either the pelicans or gulls, transported to the islands, the fish consumed and the fishing tackle left as a residue. This large assortment of debris is going to be photographed and made a part of our official record of activities which apparently occur in the island area.

The female black bear which apparently has a bucket rim around her neck for a collar has been frequenting the roadside in the vicinity of the Petrified Tree road with her two yearling cubs and has been the source of considerable speculation as to just what the apparent collar is she has around her neck.

On July 3 in traveling from the Floating Island Lake to Cascade Creek at Canyon Park Naturalist Watson saw 24 black bear along the roadside. On July 20 Chief Park Naturalist Condon saw 16 black bear at the Tower Fall dump, and these combined with animals seen along the roadside totaled 26 for the trip from Mammoth to Canyon via the old road.

On July 20 a most interesting fight between two large dark brown bears was watched by Chief Park Maturalist Condon. This battle lasted about 10 minutes and occurred in a meadow near the Tower Fall dumpground. The events which led up to this fight were interesting in that one of the bears was apparently a bully. He had his ear chewed up, a scar across his face, looked as though his nose had been pushed in and in general was a rough appearing character. He dominated the area and all the bears around showed considerable respect to him when he came in their direction. On three occasions he chased a very handsome appearing large brown bear away from the dumpground and on each occasion after chasing him some 200 yards they would return slowly to the dump site and then within a very few minutes repeat the process. On the fourth trip, however, the sleek appearing brown bear decided that he had run far enough and so stopped in the meadow and the battle ensued. It was one of a rough and tumble character with considerable striking of the forepaws, standing up on the hind feet and use of the jaws in biting, the claws in digging and also accompanied by a vocal refrain consisting of roars and bellows from both animals. One of the interesting turns of the battle was when the bully apparently gained some advantage and the fine appearing bear placed a tree between himself and the bully. There was an exciting chase around and around this tree before the two combatants engaged again in the blow for blow struggle. The bears finally disappeared in the dense forest still battling, with the crashing of trees and brush and the roaring very audible. Shortly this ceased and soon thereafter both combatants were back near the dump area.

Four black bear cubs have been observed between Old Faithful and West Thumb and three between Tower Fall and Canyon. These are the only ones which have been reported to this office so far this year.

Park Naturalist Wayne Replogle has conducted his research work on the geographic location of the old Bannock Trail and has made

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considerable progress in establishing its original geographic location. In conducting this work he has at times found Indian artifacts of various kinds which have been accessioned and added to our museum archives.

On July 10 Park Naturalist Watson with Park Naturalist Replogle went with Mrs. Ritchey of Gardiner, Montana, to several Indian sites on the north slopes of Mt. Everts. On this trip some evidence of Indian useage of the area was found, but Park Naturalists Watson and Replogle are doubtful as to whether or not some of the evidence which Mrs. Ritchey thought indicated old abandoned corrals and traps were actually such. Further investigating of this matter will be carried on this fall.

The wildlife along the readside has proven to be highly entertaining to park visitors. Elk in Elk Park, near Roaring Mountain and near Madison Junction have on numerous occasions caused traffic jams comparable to any created by bear frequenting the roadside. A cow moose and her calf near Cascade Creek at Canyon have on many occasions blocked the highway and have both shown considerable disdain for picture takers who have exposed vast numbers of pictures of them. Bison have frequented the Lamar Valley on numerous occasions and have been seen by many visitors. They have been regularly seen in the Lower Geyser Basin.

Natural History Association. The Yellowstone Library and Museum Association continued its sales business at Old Faithful, Fishing Bridge and Mammoth museums and the sales of some publications proved to be more popular than it was anticipated. It was necessary to order an additional stock of the books Come Unto Me, Field Guide to Western Birds, and Ecology of the Coyote.

A special list of sales publications sold by the Yellowstone Library and Museum Association and prices charged for them was prepared and sent to the Regional Director's Office.

Miss Renee Olson, who has been employed as a clerk by the Association, has worked on the book sales records, the bookroom stock and in addition has spent considerable time on Yellowstone Park Nature Notes, the photographic print and negative file, the Kodaslide files and Rodaslide binding. Miss Joan Swartzlow was employed all month by the Association as Yellowstone Park Librarian.

The publication Yellowstone Park Nature Notes was completed on July 26 and 288 copies were sent out in the mail, while an additional 113 were distributed to employees.

Book sales during the month were as follows:

Yellowsto	ne Nation	al Park		\$3,949.95
Custer Ba	ttlefield	National	Mon.	460.15

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July sales this year at the three desks compare with 1949 as follows:

Station	1949	1950	Increase or	decrease
Marmoth Old Faithful Fishing Bridge	\$1,335.35 1,726.90 670.85	\$1,054.95 2,042.00 688.42	-280.40 315.10 17.57	-21% 19% 3%
Total	\$3,733.10	33,785.37		

Increase or Decrease in Travel. A total of 386,306 people entered the park as compared to 386,378 during July in 1949, which is a less of 0.02%. The total travel for the season on July 31 was 629,727 as compared with 640,027 in 1949, which is a loss of 1.6%. The North Entrance showed the greatest gain of 6.4% followed by the East Entrance with 0.5% while all other entrances showed a loss. The loss at South Entrance is attributed to the construction work on the new highway which has resulted in a few miles of rough road between South Entrance and Moran, Wyoming.

Visitors. Louis Sobol, author and columnist for the New York Journal American, and Lionel Shapiro, novelist, in July 1, out 3. Dr. Edward H. Rynearson of the Mayo Clinic and former seasonal park ranger, in July 2 with his family. Carl W. Strom, American Coursel General. Mexico City, in July 6. William J. Stephenson, Executive Vice President, National Speleological Society, Washington, D. C., in July 10. Senor Jose Aguinaga, Managing Director, National Railways of Spain, Madrid, Spain, in west July 10, out 13. Arthur E. Burgess, Executive Secretary to Senator Cain of Washington, in July 8, out 13. Ralph H. Lavers. Director, National Economic Commission, The American Legion, Washington, D. C., in July 16, out 17. Merson H. Thomas, Manager-Consultant in Liquefied Petroleum Gases, in July 10. Raoul Blumberg, Public Relations Director, Washington Post, Washington, D. C., in July 20. Ingemar Hagglof, Counselor, Swedish Embassy, Washington, D. C., in July 13. W. C. Asbury. Vice President, Standard Oil Development Company, Colonia, New Jersey, in July 10, out 13. Governor John W. Bonner of Montana, in July 24, out 25. Kota Hoketsu, Japanese "Mational Leader", in July 24, out 27. Dr. A. L. Cornet, Chicago Heights, Illinois, in July 19, out 27. Dr. Cornet has been coming to the park nearly every year since 1921 to fish at Yellowstone Lake. Mariano G. Bondoc, District Engineer, Philippines, Harald V. Ekstrom, Highway Engineer, Royal Board of Roads and Waterways, Malmo, Sweden, and Z. S. Pamir, Division Engineer, General Directorate of Highways, Ankara, Turkey, in July 28. Ed Kendrew, Williamsburg, Virginia, Architect, in July 22. Helena Huntington Pringle Smith, author and magazine writer, in July 26. Will remain about two weeks.

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Ranger Service. The majority of Protection Division personnel was used in general administration of the districts and stations including the five entrance stations. As shown under the travel section. 386,306 persons entered the park during the month constituting a large problem to properly care for them and carry out the necessary law enforcement work to protect the park visitors and onforce park regulations. Five patrol cars were operated all month and the results of their activities will be partially shown under law enforcement. In addition to the law enforcement work many accidents were investigated, fishermen checked and assistance rendered. A considerable amount of field work was accomplished including trail maintenance, telephone line repair and patrol cabin repair. Eleven forest fires were reported during the month but only four were found and suppressed. In addition to the In-Service Training reported, a one-day training session was held for all highway patrolmen and law enforcement officers in the office. One day was also spent in training in connection with forest fire dispatching for all ranger personnel at headquarters.

Wildlife and Fish Cultural Activities. BEARS. Eleven reports of persons being injured by bears were received during July bringing the total for the season to 18. The injuries, consisting largely of minor scratches or puncture wounds, were suffered by persons who failed to use caution and permitted bears to approach them too closely. Seven cases of damage to property caused by bears were reported making a total of 15 such incidents reported this season.

A mature male black bear was struck by an automobile on the road between Lake Junction and West Thumb and received a broken right leg. This animal was disposed of as a humane measure. Eleven bears were trapped in developed areas and transported to more remote spots. Some of these, which were marked with paint, returned to the places where they had previously caused trouble and may have to be disposed of to prevent further depredations. A young grizzly bear cub was seen several times along the road along the shore of Yellowstone Lake in the vicinity of Mary Bay. It was seen begging along the road but disappeared after July 14.

FISH. The Fish and Wildlife Service took 7,675,318 blackspotted trout eggs from tributaries of Yellowstone Lake during June and 9,810,268 eggs during July making a total of 17,485,585 but trapping operations were continued into August. The Pelican Creek trap yielded 1,302 suckers during June and July. These rough fish were destroyed at the trap.

Fish plants made during July are as follows:

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Waters planted	Species	Size	Number	Source
Gibbon River	Loch leven	22	10,000	Bozeman
Madison River	Loch leven	22	10,000	Bozeman
Firehole River	Loch leven	2\$	20,000	Bozeman
Gardiner River(lower)	Loch leven	1会	25,000	Emigrant
Gallatin River	Rainbow	2	47,000	Ennis
Grebe Lake	Grayling	fry	500,000	Grebe Lake
Wolf Lake	Grayling	fry	200,000	Grebe Lake
Cascado Lake	Grayling	fry	50,000	Grebe Lake
Ice Lake	Grayling	fry	50,000	Grebe Lake

Most park streams remained high until late July and fishing was not particularly good in many of the favored spots. The Yellowstone River, in Hayden Valley, yielded good catches after it opened to fishing on July 1 and close observations indicate that the fish population will benefit from the new regulation which prohibits the use of boats on park streams.

Forest Fire Protection. Four reportable fires were suppressed during July. In addition, seven fires were reported which were never found. These were lightning strikes which went out before the smokechasers could find them. Two IGS-2 fire control aids were employed during July to bring the presuppression crew to its full strength. This crew spent about three days searching for fires in the Snake River District. The crew also did a bit of clearing on a trail to the Divide lookout point. Other work consisted of two days in transporting the lookout to Mt. Washburn, working on the Cascade-Snake River and the Snake River lookout telephone lines. Considerable time was spent in training lookout observers, road crews, blister rust crews and ranger personnel and in the supervision of the Divide Trail construction by the Assistant Chief Ranger in Charge of Forest Fire Protection and his assistant. Two lookout observers from road crews were trained for manning various secondary lookouts.

Wood Utilization. A wood crew consisting of a foreman and two laborers was organized and spent from the 21st until the 29th cutting fire wood at Old Faithful and in hauling wood to the Old Faithful, West Thumb, Fishing Bridge, Cascade, Canyon and Manmoth campgrounds for camper use. On the 31st the crew was enlarged to one foreman and four laborers and cutting was started at the Lava Creek burn. This wood is for Government use during the coming year.

Blister Rust Control. A total of 200 acres were initially worked during July. 240 acres were reworked. The total Ribes eradicated amounted to 99,960 plants. The crew remained at 27 men during the month. If no lost time is experienced because of fire-fighting duty the crew will have to be cut during the current month to keep within the anticipated allotments.

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variant de CSP antigan as suntant Son, four le rest alle na redost de rest mille na redost sur actist name. Building Fire Protection. The annual building fire hazard inspection report for Government buildings was written and sent to the Director. Also, the follow-up inspection of all hotels, lodges and cabin camps with emphasis on the human safety factor was made and the report mailed. The general inspection of all concessioner buildings was completed in June but the final report is being held up pending receipt of the report from the underwriter inspectors who cooperated with the park personnel in the inspection.

All buildings in which guests are quartered are in excellent condition. All fire fighting equipment has been checked; brigades have been formed and drills held. This emphasis which has been placed on a perfectly functioning fire brigade paid big dividends when the roof of the engine room of the Lake Hotel caught on fire early in the morning on July 25. The fact that the fire brigade acted promptly and efficiently probably saved the entire hotel from destruction.

The Yellowstone Park Company is experimenting with overhead extinguishers containing carbon tetrachloride which have fusible links which melt under settemperatures. These act almost the same as a sprinkler head. These are being placed in the store room of the Mammoth Gift Shop. This room, because of the unwrapping of boxes of excelsior and other flamable material has been a high fire hazard and a source of worry.

One hour of building fire protection instruction was given to the seasonal rangers on July 1.

Trails. A crew consisting of one foreman, one packer and four men worked the trails in the Old Faithful District. A temporary trail was built around the campground extension, the trail to Lone Star was worked, also the Mallard Lake trail, trail from Fairy Falls to Old Faithful via the Little Firehole Meadows, the Howard Eaton Trail through the Old Faithful District. Two bridges were put in at the start of the trail near Fairy Falls and a 30-foot stretch of corduroy. On July 20 the crew moved to the Shoshone cabin, and the trail from the Shoshone Meadows to the cabin was worked. Also, from the Meadows to the Continental Divide on the Bechler Trail. The crew was working in the swamp along the shore of Shoshone Lake at the end of the month.

Two men spent the entire month in the Lamar District. A section of the Pebble Creek trail was relocated and all trails were open by the end of the month. Two men spent July 10-24 on the West Yellowstone trails. These trails are reported in good condition. Two men spent July 1-24 on the Mammoth trails. At various times one to three additional men joined this crew. From July 24-30 three men continued up the Howard Eaton trail from Old Faithful to the boundary of the Lake District and also finished working the Summit Lake trail. These men were transferred to the Lake District at the end of the month.

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Motor Vehicle Accidents. A total of 60 traffic accidents were reported during the month. Of these 23 were Class A, 36 were Class B and one was Class C. The Class C accident, which occurred on the 27th, resulted in the loss of life of Teresa Prasch, 20, from Sauk Centre, Minnesota. The driver of the car is now out on \$1,500 bail pending a trial on involuntary manslaughter.

Law Enforcement. A total of 81 law enforcement cases were investigated, the violators apprehended and brought to trial before the U. S. Commissioner during the month. This number corresponds to 67 cases for July in 1949. The 81 cases are classified as follows: involuntary manslaughter 1, grand larceny 2, burglary and grand larceny 1, petty larceny 2, disorderly conduct 2, destruction of Government property 1, drunken driving 2, reckless driving 8, reckless driving and speeding 3, speeding 19, obstructing traffic 2, defacing natural features 1, boating in closed waters 26, fishing in closed waters 3, excess number fish in possession 7, illegal means of catching fish 1.

The Federal Eureau of Investigation assisted in solving the case and apprehending the persons who robbed Hamilton's Lake Store on the lith. Two employees were guilty of the robbery and were bound over to the U. S. District Court in Cheyenne, Wyoming. The driver of the vehicle in which Teresa Prasch lost her life by drowning is being charged with involuntary manslaughter and this case will come before the U. S. District Court in Cheyenne. Two drivers of stolen cars which were recovered in the park and one other person convicted of grand larceny were also bound over to the District Court. One person wanted for forgery and for car stealing was held for the authorities in Alpena, Michigan.

On July 7 word was received that Yellowstone National Park would be under the Butte Division of the Federal Bureau of Investigation.

Births. A son was born to Mr. and Mrs. Willis Stanton at the Mammoth Hospital on July 27. Mr. Stanton is Payroll Supervisor for the National Park Service and Mrs. Stanton was previously employed in the fiscal office.

Deaths. Val Galle, father of Storekeeper-Truck Driver John W. Galle, died at Anaconda on the morning of July 10.

Adolph R. Anderson, 52, Seattle, Washington, a visitor in the park, died of a heart attach at the Fishing Bridge tourist cabins on the evening of July 19.

Henry Peterson, 58, died at the Veterans Hospital in Sheridan, Wyoming, July 30. Mr. Peterson was employed as an Automobile Mechanic with the National Park Service in the Yellowstone from November 1926 until May 1944 when he retired due to disability. He had been in the Sheridan Hospital for a considerable period of time. Funeral services are to be held in Bozeman August 2.

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 Cliver Schmelzer, 37, Hell Captain, Old Faithful Inn, and Miss Zeller Ellen Hensley, 36, Maitress, Old Faithful Inn, died from exposure when their beat overturned in a storm at ost Thumb July 6.

Toresa Prasch, 20, Sauk Contre, Minnesota, was killed in an automobile accident seven miles east of West Yellowstone on Madison Junction-West Yellowstone Highway July 27.

Forsemal. On July 15 Park Ranger Faul V. Sphert returned to Yellerstone from Grand Teter Matienal Park where he had been on a lean basis in connection with the insect control project in that park.

In July 1 twenty-eight seasonal park rangers ontered on duty, two on July 3 and one on July 20. It was necessary to wait until the beginning of the now fiscal year before these seasonal rangers could be engaged for the 1950 season.

> idmund B. Rogers Superintendent

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