

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

SUPERINTENDENT'S MONTHLY REPORT

~~DECEMBER~~ 1945

1944 - 1945

IMPORTANT

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ARNO B. CAMMERER,
Director.

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

January 21, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of December, 1945:

General

The addition of a clerk-stenographer to the office staff is a great help and considerable progress has been made in catching up on back work. The office files were in a deplorable condition and Miss McKeown, who arrived in November, was assigned the thankless task of bringing into order the chaos that had existed. She has made remarkable headway but the job will probably require much time for several months.

Demolition crews from the army who had been working in the Kau desert area for a couple of months, locating and destroying unexploded shells and bombs, finally announced their work completed and departed on the 23rd after taking down the warning signs. Visitors and others may now again use this 10 sq. mile area with reasonable assurance of not being accidentally blown to bits.

The annual Christmas party for the park and Volcano House children was held at the Volcano House on the 22nd. The committee of park women in charge did a fine job and old and young had a most enjoyable afternoon. It seemed good to have a peaceful Christmas again, with trees and lights, and no curfew or blackout and knowledge of loved ones in danger on the fighting fronts. Mr. George Lycourge in particular was especially favored. He had with him, for the first time in many years, his whole family. His daughter and two granddaughters were at last with him from Greece and his two nephews were home, released from the airforce where they had served in Africa, Italy, China, and the bombing of Germany.

General Weather Conditions:

For the month, maximum and minimum temperatures at Kilauea were 75° and 40° and at the Haleakala ranger station these readings were 70° and 39°. Rainfall at Kilauea totalled 10.95" and at Haleakala 2.15". During a Kona storm early in the month snow fell on Mauna Kea and Mauna Loa but remained visible only a couple of days.

For the calendar year at Kilauea there was a total of 102.23" rainfall and at Haleakala 34.59". Rainfall at Halemauau totalled 52.28". The Kilauea rainfall was about 6" above normal but was very spotty and there were three periods of drought. Excessive rain fell in March and April totalling 46.49"

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and November and the first part of December were quite wet. 23.84" fell at Kilauea on April 7, 8 and 9, with 12.90" falling on the 9th. These are records for the 21 years of recordings studied.

Maxima and minimum temperatures for the year at Kilauea and Haleakala were, respectively, 78° and 74° and 40° and 35°. At Kilauea there were 109 days with .01" or less rainfall and at Haleakala 254 days.

Snow on the ground at the beginning of the year on Mauna Loa remained until January 26. There were snows late in February and early March, twice in April and the last on May 22 that disappeared by the end of the month.

Superintendent's Special Activities

The superintendent was at Kilauea headquarters throughout the month. He attended two Selective Service Draft Board meetings at Olan and one in Hilo; also one Y.M.C.A. Board of Directors meeting in Hilo. About one-fourth of his time was spent on patrols and inspections, particularly during the Christmas holidays, necessitated by absence of other employees due to illness, annual leave and work assignments in the Haleakala section.

The assistant to the superintendent returned to headquarters on the 12th after completing inspections of forest and bird conditions in the Keolan gap and Kipahulu valley areas adjoining the Haleakala section. Eleven days were spent on the Kipahulu trip during which he and Ranger Hjort were partly supplied by plane. This was the second trip during the year by park personnel through this difficult wilderness and, so far as is known, these two parties are the only ones to have traversed the entire length of the valley. While at Kilauea he assisted the rangers on patrols, gave one illustrated lecture in the park, and with the Volcanologist gave special attention to Major R. E. Appleton, former historian in Region One office.

Research and Observation

A conspicuous fame was observed over Hokuaweoweo on the 25th and 26th and lesser amounts of fame or steam were seen on several other days. Landslides at Halemauau were frequent during the middle and on the last three days of the month. The majority originated on the northwest wall.

Two earthquakes were felt during the month, both apparently originating under the east slope of Mauna Loa. In all, 31 seismic disturbances were recorded at Kilauea and 37 on the Mauna Loa seismograph.

There was an accumulation of NSW ground tilt for the month indicating apparently that the seasonal SW tilt had set in earlier than usual. Cracks adjacent to the Halemauau rim showed slight openings. Others measured very little movement.

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and Davis made the monthly inspection
The volcanologist and chief ranger made one field trip of three days to South Point and the foot of the 1868 Mauna Loa lava flow. The rest of the month the volcanologist was occupied with seismological routine and office work, in which he was assisted to C.P.S. assignee Omer.

The Kipahulu valley exploring trip that was made previously to observe and record the native bird life was disappointing in that no rare species were observed, though the more common species were abundant. It had been hoped that in this forest wilderness, almost never visited by man and wholly unmodified, some of the rare species might be encountered.

Ranger Service

Ranger Mederios was on annual leave from the 17th on. Ranger Hauanio was in the Haleakala section from the 10th to the 21st where he had been sent to assist Ranger Hjort in fitting up one of the old COG barracks for use by other employees working in that section and do the needed repair work. Rangers Davis and Hauanio made the regular quarterly fire and sanitation inspection of the Mauna Loa koa preservation sites. Ranger Davis worked on the annual forest insect report and completed work on the land appraisal forms for the Kilauea section. The chief ranger investigated three traffic accidents in the park and rangers made the weekly check of fire equipment; made one travel check, prepared and packed to the Mauna Loa rest house a supply of kerosene, feed and other items that would be required in the event of an eruption, and made some park patrols.

Ranger Hjort and former ranger Howard Powers visited the Kilauea section on the 21st for a conference with the superintendent about Powers' restoration to duty and the suggested Kipahulu valley addition to the park.

Interpretation

A total of 12 lectures were given in the park during the month with a total attendance of 543 persons. One auto caravan with 75 persons was conducted. Four talks of about one hour each were given outside the park with a total attendance of 392.

Forest Protection

Ten more Wiliwili (*Erythrina monosperma*) plants were set out in the Hiliia Pali area, bringing the total transplanted this year to 40. On the rare tree project 9 Uhi Uhi (*Mexcaurum Kauaiense*) seedlings germinated in the park nursery were transferred to the Board of Agriculture and Forestry.

No goat or pig control operations were undertaken during the month but one goat was destroyed at Haleakala.

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Fire Protection

About 3:00 A.M. on December 31 the staff responded to a fire call from the 29 mile residence area adjoining the park. A Studebaker 1942 coupe belonging to a Mrs. Takata and the garage in which it stood were about completely destroyed by the fire, but the early arrival of the park staff prevented the fire from spreading to the adjacent forest and buildings.

Accidents

There were three apparently unavoidable automobile accidents in the Kilauea section. Two were collisions and in the other a car ran off the road into a rock bank about four miles west of the Kilauea Military Camp on the old portion of the road where the shoulders are in bad condition. Except in the last accident, no one was injured, but in this case one woman was hospitalized and two others received minor injuries.

Cooperating Government Agencies

At Haleakala the army finally released the telephone line from Olinda to and through the park that was taken over at the start of the war and removed the unsightly telephone poles and wire between the Observation station and its installations on Red Hill.

It was announced on December 9 by the Territorial Director of Institutions that the Kulani road project, bisecting the Olan forest reserve, had been completed to the site of the new territorial prison at Kulani cone. This project that is said to have the support of Governor Stainback appears to be much more ambitious and far-reaching than as at first stated, and is being watched with much concern by conservationists on the Island of Hawaii.

On December 10 local papers stated the Department had announced its intention to declare the across-island road from Hilo to Kona surplus and turn it over to the Territory. It appears that all rights-of-way have not been cleared and this, together with problems of maintenance, are causing territorial and county officials much concern.

Through the cooperation of naval air officers on Maui the park's Kipahulu valley expedition was partly supplied from the air. Some parachuted supplies were lost and some badly damaged, but others were picked up in good condition.

On December 27 Col. P. H. Holliston assumed command of the army garrison force on the Island of Hawaii.

Police Protection

We were informed by the U. S. Attorney's office that an appeal from the decision of the U. S. Commissioner to the District Court could not be taken, but that in all cases similar to the Eblecas case reported last month evidence

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should be secured, forwarded to the U. S. District Attorney and the case would be originally heard in the U. S. District Court, where an unbiased decision could be expected.

On December 15 and 17 such evidence was secured and forwarded to the U.S. District Attorney and it is hoped when this case is heard it will put an end to the continued violation of park bus regulations by the Transilux Bus Company. In the new case the Hilo Junior Chamber of Commerce, sponsoring a football game in Hilo between two Honolulu schools, solicited bids to transport the teams on sightseeing trips on Hawaii, including a tour of the national park. The Transilux Company made a very low bid and was awarded the job. The busses were picked up in the park and statements of some of the visitors and the Junior Chamber of Commerce officials who arranged the trip, as well as statements from the bidders, were secured.

Travel

At Kilauea there were 26,666^{visitors} of which 13,101 were in the armed forces and at Haleakala these figures were 1833 and 591.

Visitors

Mr. Michael Vovilov, Soviet Consul General at San Francisco, paid the park a brief visit on the 9th, after several delays due to stormy weather that grounded planes.

Mr. Gerald Corbett, Secretary of the Territory, and party were overnight guests at the Volcano House on the 6th. They were given special attention by the superintendent and other employees.

Lt. Wayne Bryant, U.S.M., son of Grand Canyon superintendent Harold Bryant, and now stationed on Maui, visited both the Haleakala and Kilauea sections of the park during the month. At Kilauea he was the guest of C.P.S. assignee Gay Omer.

R. E. Burner, Jr., former Yellowstone ranger, now with the navy and also stationed on Maui, visited the Haleakala section.

Miscellaneous

Members of the Selective Service local boards, who had served without compensation for more than two years, were notified that they were to be awarded a special medal by Congress and a certificate of merit for their work. The superintendent was among those notified. He and the two other members of his board have served continuously since the start of Selective Service. Presentation ceremonies are scheduled for February 1.

Former Chief Ranger Gunder Olson received a year's furlough from the

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Hawaii County police force to go to Japan for work with the U. S. Engineers. He left shortly after Christmas.

Work on reappraising the government quarters was begun by a committee appointed by the superintendent.

The University of Hawaii was the recipient of a \$100,000 donation from the Hawaii Sugar Planters Association for a new agricultural and engineering building and equipment.

Edward G. Kingate,
Superintendent.

cc: Regional Director, Region Four (2)

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

HAWAII

January 9, 1946

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for December.

Yellow fume was observed over Mokuaweoweo during the late afternoon of Dec. 25 and 26. Some steaming was observed on other days.

Landslides at Halemauau were frequent during the middle and on the last 3 days of the month. The majority originated at the NW rim.

Two perceptible earthquakes were recorded during the month. Both appear to have originated on the east slope of Mauna Loa. A total of 31 seismic disturbances were recorded at Kilauea and 37 at Mauna Loa.

There was an accumulation of WSW tilt during the month. Most of the SW tilt accumulated during the last half of the month indicating that the seasonal SW tilt set in a little earlier than common.

Cracks immediately adjacent to the Halemauau/^{rim} showed slight openings. Other cracks that were measured showed but very little movement. No movement was detected at the cracks along the Chain of Craters of road.

The following table shows some of the data obtained during the month.

<u>Weekended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Dec. 2	Slight ENE	9	4.50
9	" S	5	2.00
16	" NNE	8	4.75
23	Moderate SSE	7	2.75
30	" WSW	7	6.50

Work of R.H. Finch.

A trip to S point and to the foot of the 1868 lava flow from Mauna Loa was made on Dec. 16, 17, and 18th. Most of my time was taken up by seismological routine and correspondence.

Work of Guy C. Omer.

During my absence he tended to the seismological routine and conducted tourists through the Observatory. He regularly assisted with the seismological routine and in addition tended to the radio time check, repaired the radio receiver, and did some janitor work in the building. He was on leave for 5 days.

R.H. Finch

R. H. Finch
Volcanologist.

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., Month of December, 1945

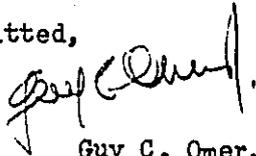
- Dec. 1 - Sat - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Dec. 2 - Sun - Day off
- Dec. 3 - Mon - Prepared this job journal for Nov. for Wingate. Made shorter copies for Fagerlund and for Finch. Some Observatory correspondence with the Univ. Library. Loaded truck for use in Traffic Count early on Tues. Made the morning change of the Bosch-Omori seismograph.
- Dec. 4 - Tue - Took Traffic Count at the Hilo Entrance during the morning. Swept out the Observatory building during the afternoon.
- Dec. 5 - Wed - Made the morning change of the Bosch-Omori seismograph. Trip to Hilo to pick up my monthly food order and to repair the radio time receiver for Observatory use.
- Dec. 6 - Thu - Reinstalled the radio (now repaired and operating) back into its position at the Observatory. Prepared food requisition for Kim. Study and analysis of a series of seismology papers for Finch (this was a series of papers by Wood and by Gutenberg on the possibility of determining depth of origin from the felt distances -- which technique Finch was interested in using for reduction of observatory data -- the final opinion was that it was not justified for our use). Made the morning change of the Bosch-Omori seismograph.
- Dec. 7 - Fri - Made the Mauna Loa seismograph trip. Did some work with the magnetic data. Made the morning change of the Bosch-Omori seismograph.
- Dec. 8 - Sat - Made a radio time check of our standard clock. Worked on our magnetic data. Made the morning change of the Bosch-Omori seismograph.
- Dec. 9 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Dec. 10 - Mon - on leave
-Tue - on leave
- Wed - on leave
- Thu - on leave
- Fri - on leave
- Dec. 15 - Sat - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Dec. 16 - Sun - usually my alternate Sunday off, but made the evening change of the Bosch-Omori seismograph.
- Dec. 17 - Mon - Carried on all routine in Finch's absence. Morning and evening changes of the Bosch-Omori, Vertical seismographs and weather. Made the Mauna Loa seismograph trip. Inspected the Halemaumau tilt cellars to check on possibility of large tilt from a large quake during the preceding night. Prepared new

E. G. Wingate pg. 2

- Dec. 17 - Mon - (cont.) supplies of paper, fixing fluid, and kerosene for the Bosch-Omori cellar.
- Dec. 18 - Tue - Carried on all observatory routine in the absence of Finch. Made a radio time signal check of our standard clock. Swept out the Observatory building. Installed a new telephone transmitter at the Park Office Switchboard. Checked Switchboard batteries -- found one bad one and replaced it. This cleared up some troubles that were found in the Park switchboard.
- Dec. 19 - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph. Having received a group of books from the Univ. Library, time was spent this day and succeeding days in their study. This study is to solve several Observatory problems by the use of the Laplace transformation.
- Dec. 20 - Made the morning change of the Bosch-Omori seismograph. Wrote to Honolulu Coast & Geodetic for their elements for the strong quake of a few days earlier. Study of Laplace Transform.
- Dec. 21 - Fri - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph. Conference with Dr. Powers.
- Dec. 22 - Sat - Made the morning change of the Bosch-Omori seismograph. Some time spent in study. Distributed a group order of oranges to the Park staff.
- Dec. 23 - Sun - Made the Mauna Loa seismograph trip.
- Dec. 24 - Mon - Morning, compensatory time for the $\frac{1}{2}$ day Sunday. Afternoon was a legal holiday.
- Dec. 25 - Tue - Christmas -- holiday
- Dec. 26 - Wed - Carried out all of the Observatory Routine in the absence of Finch. Made a radio time signal check of our standard clock.
- Dec. 27 - Thu - Made the Mauna Loa seismograph trip. Took 12 tourists through the Observatory building. Worked with Waltjen on Car #35. Made the morning change of the Bosch-Omori seismograph.
- Dec. 28 - Fri - Made both morning and evening changes of the Bosch-Omori seismograph. Made a radio time signal check of our standard clock. Straightened the shaft of a Mauna Loa seismograph drum. Phone Call from Lt. Bryant (younger son of the Supt. of Grand Canyon Nat. Park). Returned two books to the Univ. Library. Letter to Univ. Library asking for an extension of time on the third book.
- Dec. 29 - Sat - Carried out all of the Observatory routine in the absence of Finch. Made the Mauna Loa seismograph trip.
- Dec. 30 - Sun - Day off (every other Sunday)
- Dec. 31 - Mon - All Observatory routine. Took Lt. Bryant (of Grand Canyon as above) on a guided tour of the Park in my own car.

MEMORANDUM for: WGL*

Submitted,



Guy C. Omer, Jr., Jan. 5, 1946

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

January 10, 1946

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report, for December, 1945.

Administrative

(Ranger Davis completed the compilation of data on appraisal of park lands in connection with the Kalapana addition.) Altogether Davis has spent about a full month on this work since he started on it last June. (Ranger Davis and the Chief Ranger spent some time on the reappraisal of park quarters, the Chief Ranger took pictures of all the Kilauea quarters.)

Maintenance

The Chief Ranger cleaned some of the photographic equipment and interpretive films.

Interpretation

Kamehameha and Iolani High Schools football teams were taken on a tour of the park by Ranger Davis. The Chief Ranger gave four illustrated talks outside the park as follows:

USO in Hilo
Kaumana

Army in Mt. View
Hale O Aloha (to a total of 392
people).

The scheduled interpretive program remained the same.

See statistical report for complete data.

A set of 24 Kodaslide was received from Lassen Volcanic National Park.

Activities of other Agencies in the Park

The Army completed the demolition and policing work on the Kau Desert.)

Research

The Chief Ranger gave a talk at the monthly meeting of the Journal club on new plants collected in the park and spent a little time on the exotic plant paper.

Forestry

Ranger Davis planted 10 Williwili (*Erythrina monosperma*) trees at Hilina Pali, thus bringing the total to 40 such trees planted there during the year. Nine Uhi Uhi (*Mezoseurum kawaiense*) seedlings were transferred to the Board of Agriculture and Forestry in Hilo.

Use of Park Facilities by the Public

A small amount of data on picnic area use was obtained.

Lt. Wayne Bryant, son of Dr. Harold C. Bryant, Supt. at Grand Canyon National Park visited the Kilauea section.

Protection

Ranger Medeiros was on annual leave from December 17 through the end of the month.

Ranger Hauanio spent 10 days at the Haleakala section between December 10 and 21.

Occasional patrols were made on the park roads.

Ranger Davis investigated a violation of park rules (sections 2.31 (b) and 2.35) by Transilux.

The Koa plots were given the regular monthly inspection to check on cattle break-in.

Fire equipment was inspected weekly. Rangers Davis and Hauanio made the Quarterly Fire and Sanitation Inspection. It is becoming more urgent that we purchase some new fire extinguishers as our stock serviceable units is steadily diminishing.

The Chief Ranger investigated three automobile accidents during the month and submitted reports to the Superintendent.

About 3:a.m. December 31st, the Park Staff responded to a fire call from 29-mile. A Studebaker '42 coupe belonging to Mrs. H. Takata and the garage in which it stood were almost wholly destroyed by the fire. The car engine and frame probably were undamaged. We did prevent spread and possible extensive damage to forest and other buildings.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

GOF/mp

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED: Name of Area December
Interpretive Administrative Other Month
Permanent one two 1945
Temporary Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	1	75	3 1/2 hrs.
Walks or Hikes			
Ruins or Hist. House			
Other			
Total	1	75	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge <u>Kilauea Military Camp</u>	7	404	1 hr.
Museum (Not connected with conducted trip)	5	139	1 hr.
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	12	543	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS
<u>Kipuka Puaulu</u>	31 1333 1/2 hr
<u>Thurston Lava Tube</u>	31 2666 1/2 hr
<u>Observatory</u>	20 1333 1/2 hr
(Give Name or Type) Total	82 5332

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	4	392	1 hr.
Displays and Exhibits			
Replies to Inquiries	2		
Other			

16342
Total Receiving Interp. Serv.
28,499
Total Number Visitors to Area

GOVERNMENT PUBLICATIONS SOLD (number)
16 page booklets
Popular Studies
Source Books

NAME Gunnar O. Fagerlund
TITLE Chief Ranger

REMARKS: (Please note below any factors influencing interpretive service, such as: "museum closed for repairs", "closed for season", "naturalist on sick leave", etc.)

Museum has not been in operation since December 7, 1941.

*INSTRUCTIONS FOR FILLING OUT THIS FORM ON OTHER SIDE. Please read them carefully.

THE PURPOSE OF THIS FORM IS TO SECURE AN ACCURATE RECORD OF INTERPRETIVE SERVICES FURNISHED VISITORS ON A UNIFORM BASIS FOR ALL N.P.S. AREAS.

FILL OUT ONLY THOSE BLOCKS THAT APPLY

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
"ADMINISTRATIVE" ARE CUSTODIANS, SUPERINTENDENTS, ETC., CALLED ON TO ASSIST WITH INTERPRETATION.
"OTHER" ARE RANGERS, CLERICAL PERSONNEL, AND THE LIKE WHO MAY BE CALLED IN TO HELP INTERPRET THE AREA.

CONDUCTED TRIPS: TRIPS CONDUCTED BY N.P.S. PERSONNEL IN THE FIELD OR THROUGH RUINS, TO HISTORIC STRUCTURES, OR OTHER FEATURES OF THE AREA.

TALKS: REGULARLY SCHEDULED TALKS WITHIN SERVICE AREAS PRESENTED EITHER BY SERVICE PERSONNEL OR BY OUTSIDE SPEAKERS UNDER SERVICE SPONSORSHIP. NOT TO INCLUDE ANY TALKS MADE AS PART OF A CONDUCTED TRIP OR OTHER INTERPRETIVE DEVICE.

ATTENDED INTERPRETIVE STATIONS: ACTUAL COUNT OF PERSONS USING THE STATION (LIBRARY, CONTACT STATION, EXHIBIT ROOMS, STUDY COLLECTIONS, ETC.), COUNT BEING MADE BY SERVICE PERSONNEL IN ATTENDANCE. CHECKING STATIONS OR OFFICES DISPENSING INFORMATION RATHER THAN INTERPRETIVE SERVICE SHOULD NOT BE CONSIDERED AS ATTENDED INTERPRETIVE STATIONS.

INFORMATION: IS FACTUAL MATTER RELATIVE TO PHYSICAL DEVELOPMENTS, PHYSICAL FACILITIES, GEOGRAPHIC LOCATIONS, RULES AND REGULATIONS OF THE AREA, AND THE UTILIZATION OF THESE FACILITIES BY THE PUBLIC. IT INCLUDES DATA ON ROUTES AND ROADS, HOTEL ACCOMMODATIONS, BUS AND TRAIN SCHEDULES, AND SIMILAR MATTERS OUTSIDE OF THE AREA REGARDING WHICH VISITORS INQUIRE.

INTERPRETATION: IS AN ACCURATE EXPLANATION OF THE MANIFESTATIONS OF NATURAL HISTORY AND HUMAN HISTORY FOUND WITHIN THE AREA.

UNATTENDED INTERPRETIVE DEVICES: UNDER THIS HEADING SHOULD BE ESTIMATED AS ACCURATELY AS POSSIBLE ALL VISITORS USING EXHIBITS-IN-PLACE, ORIENTATION STATIONS, AND OVERLOCKS, WAYSIDE SHELTERS HOUSING INTERPRETIVE DEVICES, TRAILSIDE EXHIBITS, SELF-GUIDING NATURE TRAILS AND AUTO-CARAVAN ROUTES, AND THE LIKE AT WHICH SERVICE PERSONNEL IS NOT ON DUTY. HISTORICAL AREAS WILL FIND IN MANY CASES THAT THIS SECTION OF THE FORM DOES NOT APPLY.

INTERPRETIVE ACTIVITIES OUTSIDE THE AREA: THIS INCLUDES ALL INTERPRETIVE ACTIVITIES PERFORMED OR PROVIDED BY SERVICE PERSONNEL OUTSIDE THE AREA. NUMBER OF REPLIES IN RESPONSE TO WRITTEN REQUESTS FOR INTERPRETIVE DATA SHOULD BE INDICATED.

INSTRUCTIONS FOR FILLING OUT THE FORM

COLUMN #1 RECORDS THE NUMBER OF TRIPS CONDUCTED DURING THE MONTH, THE NUMBER OF TALKS MADE, AND THE NUMBER OF DAYS ON WHICH INTERPRETIVE STATIONS AND DEVICES ARE OPEN TO THE PUBLIC.

COLUMN #2 INDICATES THE TOTAL ATTENDANCE OF VISITORS AT EACH CLASS OF TRIP, TALK, STATION, OR DEVICE. PLEASE TOTAL EACH COLUMN IN ALL BLOCKS.

COLUMN #3 SHOWS THE AVERAGE AMOUNT OF TIME OF EACH CLASS OF SERVICE, OR THE AVERAGE TIME SPENT BY VISITORS IN USING EACH INTERPRETIVE DEVICE. SOME STUDY OF VISITOR HABITS MUST BE MADE WITH PERIODIC CHECKING AT OCCASIONAL INTERVALS.

INTERPRETIVE ACTIVITIES OUTSIDE OF THE AREA ARE INCLUDED ON THIS FORM AS A MATTER OF RECORD ONLY. THEY SHOULD NOT BE INCLUDED IN THE TOTALS IN THE LOWER RIGHT-HAND CORNER OF THE FORM.

TOTALS: A SUMMARY OF INTERPRETIVE SERVICES FURNISHED VISITORS WITHIN THE AREA IS PROVIDED FOR IN THE LOWER RIGHT-HAND CORNER. TOTAL ATTENDANCE SHOWS THE ACTUAL NUMBER OF VISITORS WHO TOOK ADVANTAGE OF THE VARIOUS INTERPRETIVE SERVICES OFFERED. SINCE EACH VISITOR MAY USE SEVERAL DIFFERENT INTERPRETIVE DEVICES, THIS ATTENDANCE MAY RECORD A TOTAL CONSIDERABLY IN EXCESS OF THE VISITORS REGISTERED IN THE AREA DURING THE SAME PERIOD. FOR COMPARISON, THE TOTAL NUMBER OF VISITORS TO THE AREA DURING THE MONTH SHOULD BE SHOWN.

THIS REPORT DUE: FROM ALL NATIONAL PARK SERVICE AREAS PROVIDING ANY INTERPRETIVE SERVICES. SEND TWO COPIES TO THE REGIONAL DIRECTOR WHO WILL FORWARD ONE TO THE DIRECTOR. ONE COPY SHOULD BE RETAINED BY THE SUPERINTENDENT OR CUSTODIAN OF THE AREA IN WHICH THE REPORT ORIGINATES. COORDINATING SUPERINTENDENTS ALSO SHOULD BE PROVIDED WITH A COPY. DUE IN THE REGIONAL DIRECTOR'S OFFICE NOT LATER THAN THE 6TH OF THE MONTH FOLLOWING THAT COVERED BY THE REPORT.

120905

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

January 2, 1946

MEMORANDUM: For the Superintendent.
Through the Chief Ranger.

SUBJECT: Report for the month of December, 1945.

In the early part of the month, horses and mules were driven down from Ohaikea horse paddock to the Park stable, where Ranger Medeiros and I spent two days shoeing them, preparing pack saddles, hay, barley, and other material to be taken to 10,000 and 13,000 ft. rest houses. Purpose is, incase of any activity should occur at the summit, supply of feed, kerosene, and other things are already there.

Trip was made to Maui, to work on one of the CCC barracks, addition of canec ceiling to wall were put in, also cleaning around barracks, placing scrap lumber in order; and helping Mitchell, by hauling trash to rubbish dump; also hauled some wood and kindling to the Observation station, cleaning the station and lab's and picking up paper and broken bottles's around the area.

It was on Thursday morning, when Ranger Frank Hjort and I made a tour in the crater. Left the Ranger station about 11:15 A.M. got to Holua cabin 12:50, spent a few minutes having lunch, then started off for Paliku cabin, arrived there, 4:10 P.M. replaced two window panes on each cabin, when returning from Paliku, we brought pack and riding saddles back, which Paul and Frank had used.

The most prettiest plant which I saw was the silversword, the view in the crater was also pretty. We got back to the Ranger station 8:45 the same night. Arrived back in Hawaii Friday morning.

Ranger Davis and I worked on Fire Inspection, covering residencial area, Volcano House, also dormitory, checking on fire extinguishers and carelessness of thrash around the area.

A patrol trip was made to Bird Park around Halemaumau rim road to Makaopuhi, and back, where I discovered broken bottles at Bird Park picnic ground, Halemaumau, - spent my time picking them up. Sign at Sulphur Bank's was pulled off and I replaced it again.

Three pigs and 7 goats were destroyed on the way up to Fire cache 1 & 2 and of truck trail, Mauna Loa.

John P. Hauanio, Jr.
John Hauanio, Jr.
Park Ranger.

CC - Chief Ranger.

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

December 28, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for December, 1945.

Public Contacts

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hours</u>
KMC	12/7/45	55	1 hr.
Obs.	12/19/45	22	1 hr.
KMC	12/18/45	60	45 min.
Obs.	12/16/45	12	1 hr.
KMC	12/28/45	74	45 min.
Park Tour & Movie (Kam & Iolani football teams).	12/15/45	75	2½ hrs.

Reforestation

Ten wiliwili (*Erythrina monosperma*) plants were set out during the month. This makes a total of 40 now growing at Hilina Pali.

On December 26th, 9 Uhi Uhi (*Mezoneuron kavaiense*) seedlings were transferred to the Board of Agriculture and Forestry at Hilo.

Appraisal of Park Lands

Information for the Kilauea section has been completed and as soon as the information requested from Haleakala arrives it will be transmitted to Chicago.

1 No. Total.

Reappraisal of Government Quarters

Measurements on some of the quarters have been taken so that a sketch of the floor plan of each house can be submitted. Assistant to the Superintendent Baldwin has been very helpful in obtaining blue prints of some of the quarters and making some of the sketches.

Investigation of Transilux busses chartered by Hilo Junior Chamber of Commerce.

This incident happened on December 15th when two large Transilux busses toured the park with the Kamehameha and Iolani football teams. An investigation was made and submitted on or about December 18th.

Annual Forest Insect Report 1945

This report has been practically completed and will be ready for transmittal within a few days.

Fire and Sanitation Inspection

The regular quarterly fire and sanitation inspection was made on Dec. 27th and 28th. Supplementary report will follow.

Miscellaneous Activities

Motor patrol, checking Koa plots, checking fire equipment, travel count, and Entomological Research.

Observations

While on patrol at Uwekahuna a small slide on the north side of Halemaumau was observed at about 1:35 PM on December 16th. This was reported promptly to Mr. Finch.

Happy New Year,

Clifton J. Davis
Clifton J. Davis
Park Ranger.

CC - Chief Ranger.
Files.

CJD:mp

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAIEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku Maui
January 6, 1946

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of December 1945 is respectfully submitted;

The second exploring trip into Kipahulu Valley was started late last month when the Assistant to the Superintendent Paul H. Baldwin and I ventured into the area, staying until the 10th of the month.

Excellent weather conditions prevailed most of the time so we were able to get around and really explore the valley. With the information gathered some of the headaches and hardships of travel in the future can be eliminated as we both have a good working knowledge of the terrain. The map was found to be so much in error as to be useless.

A narrative report of the trip was written and turned over to the Superintendent earlier in the month.

One trip to the Kilauea headquarters was made by the Ranger-in-Charge this month for a conference with the Superintendent. Former Ranger-in-Charge Howard A. Powers and two naval officers of Utility Squadron Eleven accompanied me.

Weather Conditions in the Park

Maximum temperature-----70 degrees on the 30th
Minimum temperature-----39 degrees on the 1st, 14th, and 15th.
Rainfall total-----2.15 inches.
Clear days-----20
Partly cloudy days-----5
Cloudy days-----6

Almost perfect weather has been enjoyed here since the 13th. There has been no clouds or wind and the crater has been clear all of this time. On several nights ice up to one half inch in thickness has formed but the days have been warm.

Olinda reservoir is again short of water as this December is one of the driest on record.

Public Service Contractors

Mr. and Mrs. Sprinkle have still taken no parties into the crater. Several more interested parties were turned over to them and at least one had a definite date set to go in.

The Maui Grand Hotel people feel that it will be better to let the Sprinkles drop the guiding part of the concession of their own accord so there can be no comeback at them. Mr. Sprinkle has been released from the army so no excuse for their inactivity can be offered.

Cooperating Governmental Agencies

The army has finally released the telephone line they took from the park at the start of the war. We now have a private line to Paia. This line is a metallic pair while the one we had to use during the war was a single line with a ground return plus the drag of seven parties connected to it.

All the park system of telephones were changed over from ground return to metallic pairs with the exception of the crater line which works better as a ground return. A repeater coil was installed where the crater line enters the cable. This was necessary because the ground return connects with the pair in the cable at this point.

The army at last has gotten around to removing the telephone poles and wire between the Observation Station and Red Hill. This line has been an eye sore for a long time.

Birds

A few more pairs of Apapane were seen near the Ranger Station this month. One pair fed for several days in the Mamani tree in front of the Checking Station.

Increase or Decrease in Travel

Travel figures were almost the same for this month as last. This month last year showed almost 4,000 more military visitors and about half as many civilian visitors as December 1945. There were 322 civilian and 48 military visitors to see the sunrise this month.

Visitors

Former Zion seasonal ranger Wayne W. Bryant visited the park this month. Mr. Bryant is a naval officer stationed at Kahului Naval Air Station. He is the son of Harold C. Bryant, Superintendent of Grand Canyon.

R. E. Burner Jr. former ranger from Yellowstone also visited the park this month. Mr. Burner is a non-commissioned officer in the navy and also stationed at Kahului N.A.S. Neither man knew of the others presence on the station.

With Lt. L.O. Asher of the 18th Service Battallion U.S.M.C. mentioned in the July report still on Maui and the return of former Ranger-in-Charge Howard Powers there are now four one time park rangers on the island.

Police Protection

Statements were received from the marines who had the accident last month. It seems that a steer got in their way and control of the car was lost in trying to avoid the animal. ||

Destruction of Predatory Animals

One goat was killed in the crater this month by John Jr. Other work kept us from making but one hurried trip through the crater.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

January 15, 1946

MEMORANDUM for the Superintendent:

The monthly report on the activities of the Assistant to the Superintendent for December 1945 is submitted.

December 1-12 was given to the Kipahulu Valley trip and return to Kilauea. One day was given to putting gear away and taking care of specimens. A report on the Kipahulu trip is being prepared.

At Kilauea for the remainder of the month various items were attended to. The time was broken up by holidays (1½ days), weekends (6 days), and annual leave (1 day). One day was given to bringing the map and plan file up to date. Two days were spent in drawing floor plans of park residences for the quarters appraisal committee. A conference was had in Hilo with Messers Sherman, Souza, and Mounes, of the Junior Chamber of Commerce, and Ranger Davis, about the hiring of a Transilux bus for a tour within the park for a group sponsored by the JCC. Documents on other aspects of the Transilux situation were reviewed. Rangers Hauanio and Hjort and H. A. Powers were picked up in Hilo and brought to the park for conferences. Cap't. Hussey was contacted by phone concerning the car accident of Dec. 21, and arrangements were made for the Chief Ranger to get data we needed from him. A patrol was made on Dec. 25 and a separate report submitted to the Superintendent. Miss Macmenamin was given two driving lessons so that she could drive a car if necessary in the absence of other employees. These lessons will be continued. A memorandum was prepared on the subject of the National Significance of Hawaii National Park for the use of the Superintendent in answering Director Drury's request for discussion of this question.

Two lots of Nene foods were sent to Miss C. D. Miller for chemical analysis at the Hawaii Agricultural Experiment Station.

Movies were shown on Dec. 14 and 21 at KMC to a total of 105 persons.

An intestinal disorder was experienced after returning from the Kipahulu Valley trip, and Hjort had a similar attack. An analysis was made by Lt. Schaeffer of the 148th General Hospital, and Dr. Phillips was consulted later.

Major Roy E. Appleton, combat historian and formerly historian in the Region I office, NPS, visited the park for a few days. He had many interesting comments to make concerning Korea and Okinawa.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent

10-23
(May 1922)

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

FILE NO.

MONTHLY-----REPORTS

NOVEMBER, 1945

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.

ARNO B. CAMMERER,
Director.

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

HAWAII

December 14, 1945

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of November, 1945:

General Weather Conditions

Maximum and minimum temperature at Kilauea headquarters were 69.8° and 52.1°. At the Haleakala ranger station these recordings were 68° and 41°. The total rainfall at Kilauea was 7.18" and at Haleakala 2.59".

Superintendent's Special Activities

The superintendent was at park headquarters throughout the month. He made a special inspection of all the picnic grounds and sanitation facilities on the 1st and an inspection of Hilina Pali road and Kipuka Nene area on the 23rd. Selective Service Draft Board meetings were attended; also attended one Y.M.C.A. Board of Directors meeting and one Boy Scout Executive Committee meeting in Hilo. He conferred with the Board of Health officer relative to the Volcano House water supply and Major L.W. Bryan, Territorial Forester, relative to forestry matters and fire protection on the 25th. On the 30th he conferred with Territorial Land Commissioner A. Lester Marks on the matter of removal of the Kilauea Military Camp.

The assistant to the superintendent was at headquarters until the 17th when he left for an extended visit to Haleakala section, including inspections of the bird life in Kipahulu valley and other points adjacent to the Haleakala section. He camped in the upper Kaena valley during the month and was prepared to undertake the Kipahulu expedition the first part of December. He assisted in the interpretive program, giving three lectures, all inside the park.

Research and Observation

Marked spells of conspicuous fuming over Mokuaweoweo were observed several times during the month. On November 10 the fume was visible even in the morning light until about 8 a.m. Spells of conspicuous fuming were observed from the rim of Mokuaweoweo during the afternoon of November 29. The one perceptible earthquake, which occurred at 6:25 p.m. November 27, originated on the southwest flank of Mauna Loa.

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Seismicity continued low with 19 seismic disturbances recorded at Kilauea and 30 at Mauna Loa. There was a continued lack of northerly tilt which for this season of the year is equivalent to a slight southerly tilt. There was a slight easterly tilt during the month. A few of the cracks near Halemauau rim and along the Chain of Craters Road showed a slight opening.

Ranger Davis spent an appreciable part of his time on tree propagation, which is to a large extent experimental.

The Chief Ranger continued to work on the exotic plant paper. About 30 plants were determined or checked at the Bishop Museum. The Bishop Museum acknowledged the gift of two packages of plant specimens.

Ranger Service

One ranger staff meeting was held during the month. The entire ranger staff participated in a four-day 6 a.m.-10 p.m. travel count. Ranger Davis the Chief Ranger made an inspection to Apua, Kahue, and Kealakomo along Poliokeawe Pali in the Kalapana addition.

An inspection-maintenance trip was made to the summit of Mauna Loa November 27 to 30, inclusive, by Rangers Medeiros and Davis. They put the rest houses in order and made some repairs to the telephone line above Pum Ulaula, but were unable to complete the latter job.

Rangers Medeiros and Hauanio spent a large part of their time on telephone maintenance, fence repairing and pack-saddle repairing. A temporary overhead telephone line was installed between park headquarters and the Observatory Building.

On November 4 several crewmen from the SS Jefferson Myers, a merchant ship, visited the park. One, Samuel Britt, descended into Makaopuhi Crater on a wager that he could do it in half an hour. When he got to the bottom of the crater he decided to climb up the west wall. The Chief Ranger was notified of this dangerous undertaking about 4:30 P.M. and immediately set out for Makaopuhi and was informed by bystanders that the seaman had already reached the rim safely after two or three near falls. (He lost his wager).

About 6 P.M. on November 24 Mamel Serrao, who has a cottage at 29-miles, called at the Chief Ranger's home to report that his four daughters aged 14, 12, 9 and 4, had gone for a walk in the early afternoon and had not returned and inasmuch as it was then dark and raining he was worried. After considerable questioning of people in the 29-mile community and elsewhere they found the four girls about 7:30 between the Kilauea Military Camp and Bird Park Junction. They had walked about 11 miles and were quite exhausted.

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Interpretation

The scheduled interpretive program remained unchanged. The Chief Ranger gave one illustrated talk at the USO in Hilo and Ranger Davis gave one at Hale O Aloha. Scheduled Sunday tours from N.A.S. Hilo were discontinued in consequence of large reduction in personnel there.

A total of 15 lectures were given with a total attendance of 787 persons.

Only one conducted tour with 42 persons in attendance.

Forest Protection

While on routine inspection of the park roads the superintendent observed extensive cutting of tree fern fronds in the vicinity of Fern Jungle trail. This was reported to the assistant superintendent who investigated and found that the cutting had been done by uniformed personnel of the Kilauea Military Camp who were getting decorations for a party at the camp. This matter was called to the attention of the commanding officer of the camp by letter from the superintendent.

At Kilauea, thirty-one goats and 39 pigs were destroyed in November and at Haleakala, 4 goats were disposed of.

Fire Protection

Two fire drills were held - one for the women and one for the men.

On the night of November 11-12 the ceiling electric light on the porch of the Observatory-Naturalist building melted the solder in the metal part of the framework of the fixture and charred quite badly the surrounding wood. The fire evidently went out of its own accord and was not discovered until the next morning when it was seen the light bulb and wire were hanging down. We have had a thorough inspection made of the wiring in this building by the County of Hawaii Building Inspector and such corrections as he designated will be made. The total estimate of the damage is \$25.00

Sanitation

A Sanitary Inspection of this park was made by the U. S. Public Health Service on August 16 last and under date of November 19 their Senior Sanitary Engineer wrote the superintendent that the result of this inspection and water analysis showed the sample of water taken from the Volcano House water supply to be contaminated and unfit for human consumption. The superintendent immediately got in touch with the local Board of Health in Hilo and arranged to have them send a representative to give the water supply of the Volcano House a treatment of chlorine and the manager of the Volcano House was instructed to have all drinking water boiled until this had been done. On November 28 the Board of Health sterilized this water and have taken additional samples at different points for analysis with a view of trying to locate just where the contamination gets in.

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Publicity

The Hilo Tribune-Herald of November 3 carried an interesting (and humorous) account of a recently completed expedition to Haleakala Crater, Maui. In part, it reads: "Standing on a mountain peak with a fluttering handkerchief and undershirt to give wind direction, Prof. Harold St. John, University of Hawaii, botanist, brought war-developed parachute supply to a scientific exploration in a recently completed expedition to Haleakala Crater. St. John, who was accompanied by Arthur L. Mitchell, Hawaii National Park Service, received the airborne supplies at an altitude of 7000 feet near the peak of Mt. Kuiki. The airborne operation was made possible through cooperation of the Navy and Park Service. Without airborne aid the two botanists would not have been able to explore Haleakala so extensively, Prof. St. John said. He pointed out that the food and equipment dropped enabled them to explore the eastern slopes of Kuiki and the head of Kipahulu." Mitchell is a C.P.S. assignee, not a Service employee.

Arrests

The case of one Vincent Eblacas, driver of a Transilux bus, apprehended for violation of park rules and regulations in October by bringing a busload of passengers on a tour of the park for which they have no permit, came up for hearing before the U. S. Commissioner in Hilo on November 30. The Assistant District Attorney from Honolulu came to Hilo to represent the Park Service in this case. After hearing the evidence on the side of the Park Service, the Commissioner stated he would have to give the matter further consideration and later informed the Assistant District Attorney that he was dismissing the case for lack of proof of guilt. The Assistant District Attorney stated he intended to appeal the decision to the U. S. District Court.

Surplus Property

Mr. Baldwin, Mr. Waltjen and the Chief Ranger visited the Marine depot in Hilo to look over and list equipment that might be obtained for the park and while on Maui, Mr. Baldwin and Ranger Hjort inspected similar property at the marine depot there.

Travel

Hawaiian Tour & Travel Service tours now arrive in Hilo by Inter-Island steamer every Saturday morning and make an auto tour around the Island, stopping in the park on Sunday afternoon between 12:30 and 2:45. For the present about 24 persons comprise the group.

At Kilauea there were 33,919 visitors of which 11,774 were in the armed forces and at Haleakala these figures were 1344 and 642.

A form for recording picnic area use was prepared as we have no accurate date on this.

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Publications

The Chief Ranger spent a day taking pictures for the proposed revision of the general information circular and discussed the matter of revision with the superintendent.

Personnel

Miss Catherine A. McMenamin, clerk-stenographer, who transferred from Death Valley National Monument, California, arrived on November 10 to take up her duties at this park. Her coming gives us a much needed lift.

Complaints

Letter dated November 5 was received from Mr. B. F. Bush, Superintendent of Public Works, Territory of Hawaii, Honolulu, complaining about our closing of the park at Haleakala between the hours of 5:00 P.M. and 5:00 A.M. Letter has been written him explaining that with the 40-hour work week now in effect it is impossible to operate that station with one ranger, his wife, and one C.P.S. Assignee, and that we had decided to close the park at certain hours and the hours selected for closing were those what had been found by the checking station to be the ones with fewest visitors. The complaint originated from the Territorial Highway engineer on Maui and it was suggested he discuss the matter with Ranger Hjort. A satisfactory reply was had from him and nothing further has been heard on the matter.

Visitors

Dr. Robert C. Hockett, Scientific Director of the Sugar Research Foundation, New York City, visited the park December 4-5.

Mr. Maury Maverick, former congressman from Texas, now on a Pacific area mission for the Government, and party were visitors on the 13th. They were given special attention by the Chief Ranger.

Miscellaneous

Fulton Lewis's broadcasts were listened to with interest. He was invited to the park but had already left for the mainland.

Mrs. Isadore Maggioros, daughter of George Lycurgus, owner and manager of the Volcano House, with her two young daughters arrived in Hilo early in the month from Greece where they had endured the Nazi invasion and privations of the war years. The whole island rejoiced to see them safely back.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
C.c. - Files

HAWAII NATIONAL PARK

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

HAWAII

December 12, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for November, 1945.

Administration

One ranger staff meeting was held during the month.

The entire ranger staff participated in a four-day 6 a.m.-10 p.m., travel count.

The chief Ranger spent a day taking pictures for the proposed revision of the general information circular and discussed the matter of revision with the Superintendent.

Mr. Baldwin, Mr. Waltjen and the chief Ranger visited the Marine depot at Schultz Siding in Hilo to look over and list equipment that might be obtained for the park.

A form for recording picnic area use was prepared.

Ranger Davis and the Chief Ranger made an inspection to Apua, Kahue, and Kealakomo along Pohiokeawe Pali. in the Koloa area addition.

Maintenance

An inspection-maintenance trip was made to the summit of Mauna Loa November 27 to 30, inclusive by Rangers Medeiros and Davis. They put the rest houses in order and made some repairs to the telephone line above Puae Ulaula, but did not complete the latter job.

Rangers Medeiros and Hauanio spent a large part of their time on telephone maintenance, fence repairing and pack-saddle repairing. A temporary overhead telephone line was installed between park headquarters and the Observatory Building.

Interpretation

The scheduled interpretive program remained unchanged. The Chief Ranger gave one illustrated talk at the USO in Hilo and Ranger Davis gave one at Hale O Aloha. See the statistical report for complete data on interpretive services given.

Research

Ranger Davis spent an appreciable part of his time on tree propagation, which is to a large extent experimental.

The Chief Ranger continued to work on the exotic plant paper. About 30 plants were determined or checked at the Bishop Museum. The Bishop Museum acknowledged the gift of two packages of plant specimens.

Natural History Association Activities

T. A. Jagger's book, "Volcanoes Declare War," is still being offered for sale to park visitors.

Twenty copies of the 160-foot Kodachrome 1942 eruption movies were ordered from Eastern Kodak Co. Kodak Hawaii Ltd. is now duplicating 16 mm., Kodachrome. This will greatly facilitate having such work done.

A reply was drafted to Otto Degener's proposition that we handle his "Plants of Hawaii National Park." An edition of this book is being photolithographed to sell for \$1.50 - a much more suitable book for our purpose than the previous \$4.00 printed edition.

Use of Park Facilities by the Public

Scheduled Sunday tours from N.A.S. Hilo were discontinued in consequence of large reduction in personnel there.

Hawaiian Tour & Travel Service tours arrive in Hilo by Inter-Island Steamer every Saturday morning and make an auto tour around the Island, stopping in the park on Sunday afternoon between 12:30 and 2:45. For the present about 24 persons comprise each group.

Maury Maverick in company with General Silverthorn and several other Army officers visited the park on November 13. The Chief Ranger contacted the party and showed the 1942 eruption movies.

Protection

Telephone line maintenance has already been mentioned.

Two fire drills were held - one for the women and one for the men.

On November 4, several crewmen from the S.S. Jefferson Myers, a merchant ship, visited the park. One, Samuel Britt, descended into Makaopuhi Crater on a wager that he could do it in a half hour. When he got to the bottom of the crater he decided to climb up the west wall. The Chief Ranger notified of this dangerous undertaking about 4:30 p.m., and immediately set out for Makaopuhi, he was informed by bystanders that the seaman had already reached the rim safely after two or three near falls. (He lost his wager.)

from Cayman for Texas

Interpretation

Travel

Visitors

Fire Protection

Boys Service

About 6:00 p.m., on November 24, Manuel Serrao, who has a cottage at 29-miles, called at the Chief Rangers home to report that his four daughters aged 14, 12, 9, and 4, had gone for a walk in the early afternoon and had not returned and inasmuch as it was then dark and raining he was worried. After considerable questioning of people in the 29-mile community and elsewhere we found the 4 girls about 7:30 between K.M.C. and Bird Park Junction. They had walked about 11 miles and were quite exhausted.

Boys Service

Miss McMenamin has reported in detail on the case of U. S. vs. Vincent Eblacas.

Forest Protection

Thirty one goats and 39 pigs were destroyed in November.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

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MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS
Hawaii National Park
Name of Area

Interpretation

Number of Persons Engaged in Interpretive Activities
 Technical Administrative Other
 Permanent One One One
 Temporary _____
 November
 Month
 1945
 Year

CONDUCTED TRIPS		No.	Attend.	Duration*	V.P.H.**
Auto Caravans					
Hiking Trips		1	42	3 hrs.	126
Ruins					
*List other types Total		1	42	XXX	126
LECTURES					
Campfire					
Hotel or Lodge	Kilauea Military Camp	8	575	1 hr.	575
Museum		5	145	1 hr.	145
Outside of Park		2	67	1 hr.	67
Special**					
**Includes all other types Total		15	787	XXX	787
ATTENDED INTERPRETIVE STATIONS & MUSEUMS					
Name of Station					
	Observatory		250	1/2 hr.	62
List by name and type			250	XXX	62
UNATTENDED INTERPRETIVE STATIONS					
Name of Station, Nature Trail, etc.					
List by name and type				XXX	

BROADCASTS	
Station	Subject

Total Contacts 1,079
 Total V.P.H. 975
 Total Visitors _____

Name Gunnar O. Fagerlund
 Title Chief Ranger

MAIL ATTENTION NATURALIST DIVISION, NATIONAL PARK SERVICE, WASHINGTON, D. C., IN TIME TO ARRIVE ON OR BEFORE THE TENTH OF THE MONTH FOLLOWING THE ONE REPORTED ON.
 * AVERAGE DURATION OF ACTIVITY.
 ** THIS COLUMN REPRESENTS VISITOR PARTICIPATION HOURS. THE FIGURE IS OBTAINED BY MULTIPLYING THE VISITOR ATTENDANCE BY THE AVERAGE DURATION OF THE CONTACT; I.E., THE AVERAGE TIME DEVOTED TO THE TRIP, LECTURE, MUSEUM VISIT, OR USE OF INTERPRETIVE STATIONS.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
Nov. 28, 1945

Memorandum for the Superintendent:

The monthly report for November 1945 for the Assistant to the Superintendent follows.

Kipahulu Valley Investigation

Preparations for the bird survey of Kipahulu Valley and Ainahou were made during the first part of the month. Field equipment was made for camping and collecting, and plans were laid for as complete a survey as possible in a period of four weeks. I left for Maui on Nov. 17, with a return reservation for Dec. 17. On Monday, Nov. 19, the day was spent in Wailuku with Ranger-in-Charge Hjort on various items of park business. On Tuesday I went into the Ainahou area with Assignee Mitchell and did field work until Sunday, Nov. 25. We camped as low as 4700 ft. elevation in the upper Keanae Valley. Birds were abundant but no rare species were seen other than the Iiwi, Apapane, Amakihi, and Maui Creeper. A shore bird, probably an Ulili, was collected by a waterfall and provided us with both an unusual record and a morsel for Thanksgiving dinner.

At present, Nov. 28, all is ready for a trip into Kipahulu Valley starting tomorrow. Bundles are ready to be dropped by parachute to our intended camp at 4000 ft. on the upper bench of the valley. Hjort and myself will be together for this, and we expect to come out on Dec. 11. This should leave time for one additional short trip into an area adjacent to Kipahulu to be decided upon later.

Administrative Business

Mr. Hjort will write concerning several matters discussed between us, including the food and clothing used by Assignee Mitchell and the Haleakala road closing situation. No complaints have been received from the public about closing the road at 5:00 P. M. since I have been here and I doubt if Burdick's attitude is justified, as there is an element of personal animosity there.

Hjort and I visited the marine yards and looked at surplus property. Several good items were seen such as a 500 gal. tank on 2-wheel trailer and a 2 wheel trailer heavier than the 1-ton model seen at Hilo. Hjort will get more detailed information if it appears

Bruce

*Sybil
Ranger-in-Charge
Special Activities*

Surplus Property

possible for us to obtain these things.

Matters attended to at Kilauea included the preparation of correspondence concerning the Hatayama Bus Service, army installations in the park which we desire to remove, and the Nene food habits study. Assistance was given the Ranger Division on a number of current projects.

Interpretive Contacts at Kilauea

Mauna Loa movies shown to	45	persons at	K. M. C. ,	Nov. 6
" " " " "	65	" " "	" "	13
" " " " "	25	" " Obsy.,	" "	11

*Dist Syst Special
Behaviors*

Paul H. Baldwin

Paul H. Baldwin
Assistant to the Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
December 3, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of November 1945, is respectfully submitted;

Most of the month was spent checking the traffic at the checking station. Several experiments were carried out on seeing how well visitors would clean up the Observation Station. It was found out that over a two weeks trial period that the building was clean nearly all the time. During this time a careful check was made about every other day and nothing done except remove the garbage. *Journal*

Several people have asked why the park is closed in the evening but none have registered any complaint when the situation was explained. Some very nice compliments have been received on how well the checking station has curbed vandalism.

There are not enough requests to go up to see the sunset to worry further about putting up the sign that Mr. Burdick has so violently opposed. Another repeat of the newspaper article and word passed out again to the military posts would probably stop all requests.

Weather Conditions in the Park.

Maximum Temperature-----68 degrees on the 27th
Minimum Temperature-----41 degrees on the 7th and 25th
Rainfall Total-----2.59 inches
Clear Days-----10
Partly Cloudy Days-----11
Cloudy Days-----9

Public Service Contractors. Mrs. Sprinkle took no parties in the Crater this month although her husband has been home. She has plenty of stock and a number of interested parties were turned over to her.

Mr. Taliaferro of the Maui Grand Hotel said he had purchased some more young mules recently for use in the crater work. Evidently he does not count on Mrs. Sprinkle as a guide for future operations, but plans to have his own stock and hire a guide.

Increase or Decrease in Travel. Civilian travel figures showed a slight increase over October while military travel figures fell off sharply as the military on Maui continues to make its exodus.

Public Camps. A number of school teachers and students spent the night at the Old Rest House this month. They reported early the next morning as they returned that they were nearly frozen.

Police Protection. Henry Kepani of Haiku, Maui was apprehended by the Park Warden with a handful of freshly picked silversword leaves. I placed him under arrest and reported the details to the United States Attorney. His answer to my letter is attached to this report.

Accidents. On November 27, a group of seven Marines from Company C, 3rd Amphibious Tractor Battalion, in a weapons carrier blew a tire on a curve while dodging a steer. One man sustained leg injuries. No other particulars are known as the marines failed to report the accident at the checking station on their way down the mountain. The information we have was given to us by one of the Army men at the Puu Niania Base Camp where the marines stopped for first aid. Statements have been requested from the men involved in the accident.

Destruction of Exotic Animals. Four goats were killed in the crater this month. Only one hunting trip was made during November.

(Signed) FRANK A. HJORT
Frank A. Hjort
Ranger-in-Charge

Arrests
←

Accidents
←

Forest Protection
←

November 9, 1945

Ranger Frank A. Hjort
Ranger-in-Charge
Hawaii National Park
Haleakala Section
Wailuku, Maui

Dear Sir:

Your letter dated November 6, 1945, concerning a Park Regulation violation by Henry Kepani, was duly received and contents noted.

After due consideration in view of the fact that Kepani is nineteen years of age and will be inducted into the Army on the fifteenth of this month, I do not think it is the best interest of the government to take any action in this matter.

I would suggest, however, that you give him a reprimand and tell him that if he ever violates any of the Park Regulations in the future he will be vigorously prosecuted.

Very truly yours

RAY J. O'BRIEN
United States Attorney
District of Hawaii

NOV 12 REC'D
Haleakala

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

HAWAII

December 8, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for November.

Marked spells of conspicuous fuming over Mokuaweoweo ^{were observed} several times during the month. ↙

On November 18, the fume was visible even in the morning light until about 8:00 a.m. Spells of conspicuous fuming were observed from the rim of Mokuaweoweo during the afternoon of Nov. 29. ↙

The one perceptible earthquake, which occurred at 6:25 p.m., Nov. 27, originated on the SW flank of Mauna Loa. ↙

Seismicity continued low with 19 seismic disturbances recorded at Kilauea and 30 at Mauna Loa. ↙

There was a continued lack of northerly tilt which for this season of the year is equivalent to a slight southerly tilt. There was a slight easterly tilt during the month. ↙

A few of the cracks near Halemaumau rim and along the Chain of Craters Road showed a slight opening. ↙

The following table shows some of the data obtained during the month;

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Nov. 4	Slight ENE	11	4.25
" 11	" NNE	2	0.75
" 18	Moderate SSW	5	1.75
" 25	Very slight NE	3	1.00

Work of R. H. Finch

The Howard clock was repaired, cleaned and oiled. The new synchronous motor gear train which drives the Bosch Omori seismograph was cleaned and oiled. Correspondence and seismological routine took up most of my time.

Work of G. C. Omer.

The radio for getting the time signal went out of commission during the later part of the month. A checkup revealed it was not due to a defective tube. He assisted in the seismograph routine, tended to the radio time check and did some janitor work in the Observatory. He ^{drafted} rechecked his paper on "Seismic Areas." Five days leave were taken during the month.

R. H. Finch
R. H. Finch
Volcanologist.

Research and Observation

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

December 4, 1945

MEMORANDUM for the Superintendent
Through the Chief Ranger.

SUBJECT: Monthly narrative report for November, 1945.

Public Contacts

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hours</u>
KMC	11/9/45	100	1
KMC	11/16/45	60	1
Obs.	11/18/45	30	1

Hikes

4-H Club	11/15/45	42	3
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Insect Talk

Hale Aloha	11/16/45	42	45 min.
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Park Nursery

Of the 38 Wiliwili plants (*Erythrina Monosperma*) transferred to Hilina Pali last month, 20 have been set out. The remainder will be set out before the end of this month. All plants are growing well.

The plants at the nursery are doing well and a limited number of *Hibiscadelphus hualalaiensis* (hau Kuahiwi), *Mezoneuron kavaiense* (uhi uhi), and *Kokia Cookei* (Kokio) are available for transfer to the Board of Agriculture and Forestry at Hilo.

Experiments with D.D.T. on nursery pests have been held in abeyance due to other activities.

There is nothing to report on the auxilin experiments at this time.

Fruit Protection
Research & Observation

Botanical trip to Pohiokeawe Pali

On November 19th, Chief Ranger Fagerlund and I made a trip to the Pohiokeawe section and passed through the lands of Keauhou, Apua, Kahue, and partly into Kealakomo. Many goats were seen on this trip, and some tree specimens were brought in for identification.

The *Reynoldsia sandwicensis* (Ohe makai) trees are infrequent along the pali and seed from these will be obtained later for the nursery.

Trip to Mauna Loa

Ranger Medeiros and I took six pack animals with supplies and equipment to 10,000 and the summit, leaving on Nov. 27th. The kitchen at Red Hill was not very tidy and we spent some time rearranging things. The heater for this cabin lacks a drum, and one should be taken up on the next trip.

On the way up to the summit, several repairs were made to the phone line at about 10,500'. Between 12,000 and 13,000 feet there were quite a number of poles down. Some of these were reset and the wire repaired on the return trip. (Two Japanese Hill Robins were found on the trail at about 12,500' by Ranger Medeiros.)

Summit Observation

The shelter at the summit was found in order. A heater is needed here also.

Fume columns from Mokuaweoweo were first observed by the undersigned at 3:50 PM on November 28th, while enroute to the summit shelter. Fuming along the entire fracture was fairly rapid at 4:30 PM. At 8:30 PM this gaseous activity could be discerned through the darkness but I could not say whether this was steam or fume. On the following morning (7 AM) there wasn't much steam activity. However, at about 10:30 AM it increased somewhat.

Miscl. activities

Checking fire equipment, motor patrol, attending staff and Ranger meetings, travel count, and Entomological research.

Respectfully submitted,

C. J. Davis.
C. J. Davis
Park Ranger.

CJD/mp

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

December 3, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Report of activities for the month of November 1945.

A large proportion of my time was spent on telephone check up and repairs, telephone lines checkup and repairs. These jobs performed covered the areas of Mauna Loa section to the summit, observatory areas, Hilo entrance to Kau entrance, and the utility areas.

Some time was spent on end of Mauna Loa truck trail horse corral fence repair, driving cattle out of Ohikea Koa plot, at paint shop rigging some pack saddle breaches, shoeing some park horses and mules for Mauna Loa telephone line work, checking on pig trap at Puhimau section.

Two travel counts were performed at the Hilo entrance, and also one fire drill. Some pig and goat control work was performed. Two patrols, covering the areas of Chain of Craters road, Halemaumau, around the Uwekahuna section, Bird park and to the end of Kau entrance. Also performed one weekend duty.

The telephone line from 10,000 to the summit was to be found in a very poor condition. Some repairs were done but still incomplete. The 13,000 rest house was to be found in very good shape, but the 10,000 rest house was in a very poor shape. The water tanks at the 13,000 and 10,000 were both full.

For the month of November 1945, 5 goats were destroyed, and 30 pigs. Thirteen of these pigs were unborn. The pigs were hunted off mostly of the ohikea section and the Koa plots section. The goats were along the Mauna Loa road.

Work performed was accompanied by Ranger Hauanio Jr.

A. B. Medeiros
A. B. Medeiros
Park Ranger.

ABM/mp

December 5, 1945

MEMORANDUM for the Superintendent
Through the Chief Ranger.

SUBJECT: Daily report for the month of Nov., 1945.

Edition of fence were installed on top of stone wall at the end of truck trail Mauna Loa, in order to keep goats from jumping out when goat drives were performed. Also to keep horses from getting out.

Repairing pack saddles to be used for hauling hay, barley, and other material to 10,000 and up to the summit.

A day spent driving cattle out from Koa plot and also checking fence line around plot.

Installing temporary telephone line from headquarters over to observatory, the cause was from cable line shortage. Checking all phones and batteries in residential area, dormitory and other sections.

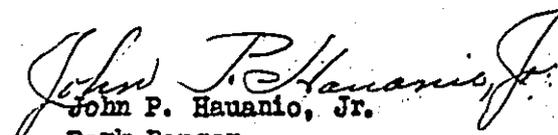
Two days spent shoeing horses and mules and took them up to end of truck trail the following day.

Took Ranger Medeiros and Davis to end of truck trail.

Travel count, office duty, fire equipment, pig and goat control also were taken care of.

Pigs and goats destroyed.

Pigs--9 (5 unborn included).
Goats--15.


John P. Hauanio, Jr.
Park Ranger.

JPH/mp

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., Month of November, 1945

- Nov. 1 - Thu - Prepared this job journal for the preceding month. Copies to Wingate, Fagerlund, and Finch. Made the Mauna Loa seismograph run. Traffic Count shift at Hilo Entrance. Made the morning change of the Bosch-Omeri seismograph.
- Nov. 2 - Fri - Hilo trip. Picked up Omer's monthly food order. Picked up laundry for Park. Ran errands for Finch and Baldwin. Prepared food request for Kim. Made the morning change of the Bosch-Omeri seismograph.
- Nov. 3 - Sat - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omeri seismograph.
- Nov. 4 - Sun - day off
- Nov. 5 - Mon - on leave
- Nov. 6 - Tue - on leave
- Nov. 7 - Wed - on leave
- Nov. 8 - Thu - on leave
- Nov. 9 - Fri - supposed to be on leave -- however I was scheduled for traffic count so I took this traffic count shift at the Hilo Entrance and compensated for the time later in the month.
- Nov. 10 - Sat - day off -- this was part of the traffic count and Sunday time that was compensated.
- Nov. 11 - Sun - Took all of the morning routine. Made the Mauna Loa seismograph trip. Stood two traffic count shifts at the Hilo Entrance -- worked a 10 hour day -- this extra time was compensated by taking other time off during the month (which times will be indicated in this report)
- Nov. 12 - Mon - Legal holiday. Made the morning change of the Bosch-Omeri seismograph.
- Nov. 13 - Tue - Took all H.V.O. morning routine. Made the Mauna Loa trip. Checked the ringer at the Park Office -- trouble would require electrical test instruments to find. Worked on Finch's residence telephone line.
- Nov. 14 - Wed - Made the morning change of the Bosch-Omeri seismograph. Made a radio time check of our standard clock. Fixed Line #8 and Finch's residence telephone. Stood one traffic count shift at the Hilo Entrance.
- Nov. 15 - Thu - Made the morning change of the Bosch-Omeri seismograph. Made the Mauna Loa seismograph trip. Started to correct the "Seismic Areas" paper for publication.
- Nov. 16 - Fri - Dental appointment (Dr. Kubo)

E. G. Wingate from G. C. Omer, pg. 2

- Nov. 17 - Sat - Made the morning change of the Bosch-Omori seismograph. Made the Mauna Loa seismograph trip.
- Nov. 18 - Sun - day off
- Nov. 19 - Mon - Made the morning change of the Bosch-Omori seismograph. Made a radio time check of our master clock. Swept out the Observatory building. Worked with Tony on Line #10.
- Nov. 20 - Tue - Made the morning change of the Bosch-Omori seismograph. Worked on Line #7. Reviewed the Eruption movies with Fagerlund in preparation to a scheduled lecture to a group of philippinos. Began to copy the final draft of the "Seismic Areas" paper for publication.
- Nov. 21 - Wed - Made the morning change of the Bosch-Omori seismograph. Prepared projector, notes, etc. for talk, but the philippinos did not show up as scheduled. Completed typing and otherwise revising the "Seismic Areas" paper -- gave it to Finch and it was put into the mails. One late night traffic count shift (8 - 10 p.m.) at the Hilo Entrance.
- Nov. 22 - Thu - Thanksgiving Day.
- Nov. 23 - Fri - day off -- final block of compensatory time for traffic count and Sunday extra time.
- Nov. 24 - Sat - Made the morning change of the Bosch-Omori seismograph. Dis-assembled H.V.O. radio searching for trouble (beat oscillator defective).
- Nov. 25 - Sun - Made the morning change of the Bosch-Omori seismograph. Made the Mauna Loa seismograph trip.
- Nov. 26 - Mon - Made the morning change of the Bosch-Omori seismograph. Prepared and carried fixing fluid and kerosene over to the Bosch-Omori cellar. Saw Kim about buying additional telephone fuses. Started work on final paper on volcanism and magnetism.
- Nov. 27 - Tue - Made the morning change of the Bosch-Omori seismograph. Further work on new paper (gathering raw data from the H.V.O. record books)
- Nov. 28 - Wed - Dental appointment (Dr. Kubo). Picked up the new telephone fuses for the Park. Checked a suspected radio tube from the H.V.O. receiver.
- Nov. 29 - Thu - Made the morning change of the Bosch-Omori seismograph. Made the Mauna Loa seismograph trip. Worked on telephone line #10. Further seismic data for paper.
- Nov. 30 - Fri - Made the morning change of the Bosch-Omori seismograph. Plotted some values for the final paper. Discussed the Halemaumau map with Wingate.

Submitted,

Dec. 3, 1945

G. C. Omer
WR

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Hawaii NATIONAL PARK

FILE NO.

MONTHLY REPORT

OCTOBER, 1945.

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

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

November 27, 1945

MEMORANDUM for the Director:

There follows the report of activities in Hawaii National Park for the month of October, 1945.

General Weather Conditions

Maximum and minimum temperature at Kilauea headquarters were 78°^{69.8} and 48°^{52.1}. At the Haleakala ranger station these recordings were 67°⁴⁸ and 39°⁴¹.

At Kilauea the first half of the month was quite dry but beginning on the 15th light rains began and continued daily for the remainder of the month. The total rainfall at Kilauea was 5.73"^{7.18} and at Haleakala 2.18"^{2.59}.

Superintendents' Special Activities

The superintendent attended a conference of Selective Service Local Boards on Hawaii island at the Kona Inn on the 13th-14th, was a guest of the Chamber of Commerce at a Navy Day luncheon at the Hilo Yacht Club on the 27th, attended a YMCA Board of Directors special meeting in Hilo and two Selective Service board meetings at Oloa. Routine inspections were made in the headquarters area. The remainder of the time he was in the office.

The assistant to the superintendent was at headquarters throughout the month. He obtained the cooperation of the U. S. Coast Guard in making air photos desired in connection with the shore-line fauna surveys made in September by Dr. Hiatt of the University of Hawaii. He prepared a note on the birdlife of Keaoi islet for publication in the Condor, supplied Dr. H. I. Fisher, titles of publications on Hawaiian birds for a projected bibliography, continued research on the native bird problem and assisted in the interpretation program, giving six lectures and conducting one park tour.

Research and Observation

The volcanoes remained quiet though considerable fume was observed over Mauna Loa several times. On the 21st simultaneous observations were made from park headquarters and from the rim of Mokuaweoweo which showed previously observed fume columns were not due to unusual weather conditions or the effect of sunlight. From the rim of Mokuaweoweo the fuming was distinctly seen to be much more dense than normal.

RECEIVED AS FOLLOWS

Out of a total of 48 seismic disturbances during the month at Kilauea only one was strong enough to be felt. This occurred at 4:05 AM, October 30. The Mauna Loa seismograph recorded 55 disturbances.

Movement of rim cracks about Halemauuan and along the Chain of Craters road was negligible. Tilting of the ground was normal to the east but below normal to the north.

The volcanologist and one CPS assignee were entirely occupied with routine work and correspondence. At the request of Dr. T. A. Jaggar a memorandum was sent the New Zealand Geological Survey in regard to instruments for a volcano observatory. The New Zealand people were interested in activity of Ruapehu volcano. The CPS assignee made one trip to Kona to make adjustments on the seismograph and instruct the new observer in handling the instrument. He spent some time preparing a preliminary paper on magnetic variation.

Ranger Davis reports that the *Hibiscadelphus Giffardianus* on the Keauhou ranch land is responding well to the 4% rotenone dust treatment. Only a few thrips were seen. The tree had put on some new vegetative growth and the foliage had a healthier appearance. This tree is the lone survivor of its species. He spent some time checking forest insect conditions and in trying to determine the range and effect on the host of the newly described native beetle, reported last month.

Chief Ranger Fagerlund continued work on the exotic plant paper as time permitted.

Ranger Service

The Chief Ranger was on annual leave from the 11th to the 31st.

Rangers spent considerable time on telephone line maintenance and completed an emergency line from Halemauuan connecting at the Summer Camp. One fire drill was held, fire equipment inspected weekly, and new fire instructions prepared and distributed. They posted some new signs, made highway patrols, made one traffic count, performed pig and goat control and removed a steel cable from the rim of Halemauuan as a safety measure. The old cable, erected in 1934, had become so weakened that it had become a hazard giving a false sense of safety. With the assistant to the superintendent they conducted the interpretation program.

Interpretation

At Kilauea 12 illustrated lectures were given in the park with an attendance of 562 and one outside with an attendance of 125. At Haleakala one lecture was given to 400 service men at the Makawao Marine Hospital. Forty one persons attended 3 conducted tours at Kilauea.

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Forest Protection

Two experiments were initiated at the nursery in connection with the rare tree preservation project. With the purchase of a root duster and pyrophyllite, D.D.T. is being experimented with as a control of nursery pests such as mites, aphids, and leafrollers. Some cuttings of *Hibiscadelphus hualalaiensis* and *Kokia rockii* were treated with Ausiline, a root forming hormone, and set out in a propagating medium.

Thirty eight Wiliwili seedlings were transferred from the nursery to Hilina Pali for transplanting. Those previously set out are making excellent growth.

At Kilauea 25 goats and 32 pigs were disposed of and at Haleakala 47 goats were disposed of.

Posts were cut for repairs to the goat enclosure fence crossing the park above the end of the Mauna Loa truck trail. Goats had been entering the park through breaks in this fence.

Police Protection

Violations of bus regulations by drivers of the Transilux Co. continued but no arrests were made in the two cases we were able to investigate.

The U. S. Commissioner in Hilo suggested a procedure, that was agreed to by the U. S. Attorney and reluctantly agreed to by the superintendent, whereby, if a defendant pleaded guilty he would forthwith be sentenced, but, if not the case would be continued and the U. S. Attorney would represent the government at the continuance before the Commissioner. The Commissioner still insists that warrants of arrest be prepared by the U. S. Attorney's office in Honolulu.

Accidents

One accident, for which no report has yet been received from the Military Police, occurred in the Haleakala section. Investigation by the ranger showed that two marine corps officers had driven as far as the checking station gate after dark where they turned around and then ran off the road at the only Uturn between the gate and park entrance. Visibility was good and it appears the vehicle was travelling too fast. No information could be obtained from the officers involved, other than that they had driven up to see the moon, since one states he was asleep at the time of the accident and the other has been unconscious or in a state of partial amnesia since. The latter suffered a possible skull fracture.

A fatal accident, the third such in the last couple of years in the same place occurred on the Mamalahoa highway on the unsigned turn outside of the park about 3 miles east of Hilo entrance to the Kilauea section

RECEIVED AS FOLLOWS

In this and one other are electric power line pole was severed and death was by electrocution. The vehicle travelling too fast was unable to make the turn or the driver did not see it until too late to slow down. The need for signing this turn has been previously called to the attention of County officials. Residents of the volcano district were without light or heat for some 12 hours.

Improvements

In spite of our many complaints about damage to the park resulting from the war it has not been wholly without benefit. Attached are some photographs showing before and after views of unsightly buildings removed from the park as a direct or indirect result of the war. The purchaser completed removal of the four cottages on the road just east of the park headquarters during the month and when we remove the remaining exotics this area will be restored to its natural state, at least in appearance.

Cooperating Government Agencies

Ranger Hjort reports that army and navy bases on Maui are continuing to close down and that the Air Warning Service at the Puu Nianiau base camp has lost over half of its personnel. The army inter-island radio at Red Hill is still in operation. Posts on Hawaii are also being abandoned and the buildings torn down.

Designed as a federal-aid project surveys for a road into Waipio valley on Hawaii were commenced during the month. Residents of this beautiful fertile valley have long been the most isolated of any in the Territory.

On the 25th local newspapers reported that the Territorial government is planning to open government land at Rhokuloa in the saddle between Mauna Kea and Mauna Loa to settlement as soon as the area and the across-island road have been released by the army. This/the area that we had recommended as a site for eventual removal of the Kilauea Military Camp from the park.

The public works department of the Territory on October 19 estimated that the cost of repairing war-damaged roads in the Territory would amount to \$8,000,000. The work is to be done by the local government with reimbursement from the Federal government.

Travel

At Kilauea there were 31,258 visitors of which 14,887 were in the armed forces and at Haleakala these figures were 2,412 and 1,238.

RECEIVED AS FOLLOWS

Miscellaneous

One of the largest land deals in many years was announced on the 7th when the W. H. Shipman, Estate, sold to a group of Honolulu businessmen some 40,000 acres in the Puna District east of the park, largely in the land of Keauu for \$285,000. This tract of land begins about one mile east of the park and work was begun immediately on subdividing the land, for homesite development. Rumors have it that a hotel and golf course are to be constructed.

To replace the old Hawaii Tourist Bureau, a war casualty, the Honolulu Chamber of Commerce has established the Hawaii Visitors Bureau and appointed Mr. Mark Egan, an experienced advertising, public relations, and convention bureau man, as executive secretary.

The threat of a strike by Hilo Electric Light Co. employees was ended on the 25th when a settlement, arranged by a board of arbitration, was agreed to by the company and the union and a new contract signed. A strike would have been disastrous for the park as we are wholly dependent upon this company's service for heat, light, and power.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
c.c. - Files

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

November 9, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for October.

A fume column was observed over Mokuaweoweo on several afternoons during the month. On Oct. 21, observations were made simultaneously at Park Headquarters and at the rim of Mokuaweoweo. The fuming as observed from the rim was distinctly more than usual.

The only perceptible earthquake that was recorded occurred at 4:05 AM, Oct. 30. A total of 55 seismic disturbances were recorded at Mauna Loa and 48 at Kilauea.

As in September, northerly tilt was less than normal, whereas easterly tilt was about normal.

There was but little movement at any of the cracks near Halemaumau rim or along the Chain of Craters Road. Even the cracks at the SW rim which had been opening so conspicuously during the preceding two months opened but slightly during October.

The following table shows some of the data obtained during the month.

Weed ended	Tilt	Seismic disturbances	Seismicity
Oct. 7	Slight ENE	3	1.00
14	" WNW	24	7.25
21	" NNE	6	2.25
28	" NE	6	2.00

Work of R. H. Finch.

An unusually large part of my time was taken up in correspondence. One memorandum was sent to the New Zealand Geological Survey in regard instruments for a Volcano Observatory. This was prepared at the request of Dr. T. A. Jaggard. The Director of the New Zealand Geological Survey submitted some photographs of Ruapehu volcano and wanted an opinion as to what further activity might be expected. Seismological routine was kept nearly current.

Work of Guy C. Omer.

In addition to assisting in the seismological routine, he did some janitor work at the observatory, kept the radio time check, worked on the Kona seismograph, and did some plane table work at Halemaumau. As time permitted he worked on a paper on "Annual Variation at Honolulu."

R. H. Finch
R. H. Finch
Volcanologist.

Memorandum: to Supt. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., October, 1945

Oct. 1 - Mon - Pickedup Food order in Hilo. Attempted to locate an Air freight package for the Observatory. Prepared Food Order requisition for Kim. Prepared this Job Journal for preceding months -- copies to Wingate, Finch, and Fagerlund.

Oct. 2 - Tue - On Leave for five days

Oct. 3 - Wed -

Oct. 4 - Thu -

Oct. 5 - Fri -

Oct. 6 - Sat -

Oct. 7 - Sun - normal day off

Oct. 8 - Mon - made the Mauna Loa seismograph trip. Began the first draft of paper on "Annual Variation at Honolulu". Made the morning change of the Bosch-Omori seismograph.

Oct. 9 - Tue - Prepared leave record for Kim. Work on first draft of paper. Traffic Count at Hilo Entrance in afternoon. Attempted a radio time check of master clock (no transmission). Made the morning change of the Bosch-Omori seismograph.

Oct. 10 - Wed - Made the Mauna Loa seismograph trip. Traffic count at Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph.

Oct. 11 - Thu - Writing the first draft of the paper. Made a radio time check of our master clock. Finished the first draft of the paper. Made the morning change of the Bosch-Omori seismograph.

Oct. 12 - Fri - Made the Mauna Loa seismograph trip. Prepared plane table plot for Halemaumau survey. Worked on revision of the paper. Made the morning change of the Bosch-Omori seismograph.

Oct. 13 - Sat - Prepared and carried fixing fluid to the Bosch-Omori cellar. Wrote second draft of the paper. Corrected the Z-data. Made the morning change of the Bosch-Omori seismograph.

Oct. 14 - Sun - day off

Oct. 15 - Mon - Plane table survey at Halemaumau. Worked on paper. Made the morning change of the Bosch-Omori seismograph.

Oct. 16 - Tue - Worked on the drawings for the paper (includes considerable time in the evening). Made the morning change of the Bosch-Omori seismograph.

Oct. 17 - Wed - Drove to Kona. Made some necessary repairs to the Kona seismograph and put the instrument into better adjustment. Considerable demonstration of seismograph routine to the attendants who were afraid of the machine and at the point of dropping thier work on it.

Oct. 18 - Thu - Made the Mauna Loa seismograph trip. Finished Fig. 2 for

the paper and started on the drawing of Fig. 1. Made the morning change of the Bosch-Omori seismograph.

- Oct. 19 - Fri - Worked on Fig. 1 for the paper. Had a great deal of trouble with the ink running. Made the morning change of the Bosch-Omori seismograph.
- Oct. 20 - Sat - Made the Mauna Loa seismograph trip. Worked on Fig. 1 of the paper. Made the morning change of the Bosch-Omori seismograph.
- Oct. 21 - Sun - day off
- Oct. 22 - Mon - Finished the drawings for the paper. Finished the paper on "Annual Variation at Honolulu". Turned it over to Finch for transmittal. Made three copies for distribution to U.S. Coast & Geodetic Survey (who furnished the data and who were interested in the results) and for Dr. Wentworth. Made a radio time check of our master clock. Made the morning change of the Bosch-Omori seismograph.
- Oct. 23 - Tue - Revised the paper at Finch's behest. Finally put it into a form that he accepted. Made the morning change of the Bosch-Omori seismograph.
- Oct. 24 - Wed - Swept out the building. Prepared letters and sent copies of the paper to U.S.C.&G.S. at Washington and Honolulu and to Dr. Wentworth. Made the morning change of the Bosch-Omori seismograph.
- Oct. 25 - Thu - Repaired a motion picture projector for Pegerlund. Made the morning change of the Bosch-Omori seismograph.
- Oct. 26 - Fri - Made the Mauna Loa seismograph trip. Finished office work on the plane table survey of Halemaumau. Filed this plane table sheet with Finch for future use. Prepared and mailed an optical system to Bill Eller for use in his seismograph. Made the morning change of the Bosch-Omori seismograph.
- Oct. 27 - Sat - Replenished the paper supply over at the Bosch-Omori cellar. Began work on sequel paper on Magnetic variation accompanying volcanic changes. This is the heart of the whole program. I expect this to be of considerable value to the Observatory in future work and want to finish it before I leave here. Made the morning change of the Bosch-Omori seismograph.
- Oct. 28 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Oct. 29 - Mon - Carried out all seismograph routine. Prepared fixing fluid for the Bosch-Omori seismograph. Further calculations for the important volcanic-magnetic paper.
- Oct. 30 - Tue - Made a drawing to illustrate a release to be distributed by Dotts' on the seismograph installation at Kona. Further calculations for paper. Made the morning change of the Bosch-Omori seismograph.
- Oct. 31 - Wed - Made a radio time check of the master clock. Further work on paper (collected volcanic statistics). Made the morning change of the Bosch-Omori seismograph.

Submitted,

Nov. 1, 1945

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

November 6, 1945

MEMORANDUM for the Superintendent.

The monthly report of the Assistant to the Superintendent for October 1945 is submitted.

Administrative work

Administrative reports prepared included the monthly and annual travel reports, the annual report on wildlife protection accomplishments, and the preparation of two revised PCP projects. Correspondence and verbal contacts were had with Col. Muller and Capt. Hazel relative to KMC and other items concerning the military. Work orders were prepared for several important jobs, and an inspection of the Duplex cottage and the park nursery was made with the Superintendent. Assistance was given the Ranger Division in Transilux investigations and preparation of correspondence and reports connected with them. Ranger Davis was accompanied into Bird Park on Oct. 15 and to Mauna Loa on Oct. 17 to locate rare trees for him for his nursery and insect survey work. A conference was had with Hatayama on Oct. 23.

The Coast Guard cooperated in obtaining air photos, and these were sent to Dr. Hiatt for use in his report on Halape. A map was drawn and sent with the photos. The U. S. N. Museum acknowledged receipt of marine shells for identification.

A note on the birdlife of Keaoi island was submitted to The Condor for publication. When all reports on the Keaoi-Halape area have been prepared, it is planned to make recommendations concerning park administration of that interesting and biologically rich place.

At the request of H. I. Fisher, titles of publications on Hawaiian birds were furnished for a bibliography to be published by him. Two reptile specimens from the park were sent to him for identification.

The park file of The Elepaio was made complete by having missing issues typed.

Nene foods were sent to Miss C. D. Miller, on Oct. 9 and Oct. 22 for chemical analysis. More foods will be sent in November and December.

Interpretive work

Mauna Loa movies	KMC	10/2	40 persons	1 hr.
" " "	"	9	70 "	1 hr.
" " "	"	12	30 "	1 hr.
" " "	"			

Interpretive work (continued)

Mauna Loa movies	Obsy	10/14	2 persons	1 hr.
" " "	KMC	19	60 "	1 hr.
" " "	"	26	45 "	1 hr.
Navy tour of park		10/14	15 "	2 hr.

Orientation work was carried on for visitors in the Headquarters area.

Two Admirals and four naval captains were given a personal park tour, and shown the Mauna Loa movies on Oct. 12, at the request of Cmdr. Kalleta.

A talk on Nene foods was given before the Journal Club on Oct. 10.

A letter was written to Mrs. John Baker of Paahau about birds. She reported seeing large white birds at Hamakua after reading newspaper articles on my Midway trip. These were white-tailed tropic birds. ✓

Paul H. Baldwin

Paul H. Baldwin
Asst. to the Superintendent.

PHB/mp

Club Mayo + Referrals +

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

HAWAII

November 5, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for October, 1945.

Administration

The Chief Ranger was on annual leave from October 11 to 31 inclusive and Ranger Medeiros was on sick leave from October 9 to 19 inclusive.

Interpretation

The scheduled interpretive activities remained unchanged. Guided Sunday afternoon tours for the Navy continued. The Chief Ranger gave one illustrated talk on volcanoes to 125 students at Hilo Standard School.

For complete data on interpretive services given during October see the statistical report.

Research

The Chief Ranger spent appreciable time on the exotic plant paper. Ranger Davis continued to spend a considerable part of his time on entomological studies and on tree propagation. Note that Davis reports the Hibiscadelphus Giffardianus on Keauhou Ranch is healthier after he dusted it with rotenone to kill the thrips. This tree is the sole survivor of the species.

Travel

With the help of Assignee Omer the rangers made one travel count.

Maintenance

Rangers Medeiros and Hauanio spent considerable time on telephone maintenance. This was given priority in view of the likelihood of eruption. An emergency line was laid between Halemaumau and Summer Camp and a double switch was installed at Halemaumau. Thus with two lines there should be reasonable assurance of communication whenever desired between Halemaumau and Park Headquarters. Lines were checked and repaired to Uwekahuna and on Mauna Loa to the end of the truck trail. Several new poles were set.

Posts were cut along the old Ainahou trail for repairing the fence at the end of Mauna Loa truck trail.

Ranger Haunio spent one day on maintenance in the residential area.

Assignee Omer spent one day repairing the Eastman 16 mm projector.

Protection

Fire equipment was checked weekly. One fire drill was held. Instructions for fire suppression were prepared and distributed.

Twenty five goats and 32 pigs were destroyed. The pig trap is inoperative for want of bait at present.

Highway patrols were made at irregular intervals. Three park regulations signs were set out at Kipuka Puauu, Uwekahuna, and Lava Tube. It is planned to paint and set up two or three more.

The steel cable at Halemaumau rim was removed because it is thought that the cable gave visitors a false feeling of safety.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

GOF/mp

RECEIVED AS FOLLOWS

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

HAWAII

Nov. 1, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for October, 1945.

Public Contacts

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hours</u>
Obs.	10/21/45	12	1 hr.
KIIC	10/23/45	60	1 hr. /
Obs.	10//28/45	36	1 hr.
KIIC	10/30/45	60	1 hr.

Park Nursery

With the purchase of a Root duster and pyrophyllite, experiments with D.D.T. at the Nursery are now being organized. These experiments are aimed at the control of injurious nursery pests such as mites, aphids and leaf rollers.

More soil from the CCC Camp was obtained on October 9th.

On October 31st, 38 wiliwili seedlings were transferred to Hilina Pali Shelter for transplanting. Eight of these were set out.

The plants set out previously are making excellent growth. Weeds and grasses were removed from around these plants.

Experiments with Auxilin (supplied through courtesy of Mr. A. H. Cornelison of the Experiment Station, H.S.P.A.) began on October 16th. Some cuttings of *Hibiscadelphus hualalaiensis* and *Kokia Rockii* were treated with this root forming hormone and set out in a propagating medium.

Entomological Research

Some time was devoted to checking forest insect conditions and trying to determine the range and effect on the host of *Neoclytus dodonaea*, newly described native beetle. Observations are continuing.

RECEIVED AS FOLLOWS

Investigation of Transilux Sampan

On October 22 the undersigned investigated a complaint by the Hatayama Bus Company on Transilux Sampan number H2687. At the conclusion of the investigation it was recommended that no further action be taken. (Kindly refer to report dated October 25, 1945).

Miscl. Activities.

Checking fire equipment, motor patrol, travel count, checking Koa plots, checking Hibiscadelphus on Keahou Ranch, posting fire instructions in residential area, servicing fire extinguishers, and attending Staff and Ranger meetings.

Observations

The hibiscadelphus tree on the Keahou Ranch is responding very well to the 4% rotenone dust treatment. Only a few thrips were observed and the foliage has a healthy appearance. It has also put on some vegetative growth.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Park Ranger.

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

HAWAII

October 31, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Report of activities for the month of October, 1945.

From October 9 through 21-1945, have been on sick leave.

> Some telephone line repairs were done on line #10, Mauna Loa section. A few new poles were installed, a telephone wire was laid on the ground from old summer camp to Halemaumau telephone.

A bar gate was built on the fence around the Koa plot at Ohikea. One staff meeting was performed and also a fire drill. The cable fence on the rim of Halemaumau crater was taken down.

Some time was spent driving some park horses from Six tanks padlock to the horses stable padlock. On all telephone boxes within the park roads, fire instruction posters were posted. Some time was spent clearing around all fire hydrants and some signs.

A few patrol trips were performed covering the Chain of Craters, the Halemaumau, the Bird Park and the highway to Kau entrance.

Two check ups were made along the Napau trail for hunters. On Oct. 27 and 28, 1945, was detailed on weed-end duty.

> Sometime was spent on pig and goat control work. Within the areas of Ohikea, Alealea, and Puhimau.

> Thirteen pigs were destroyed. Of this 5 were unborn. Also 1 goat destroyed.

> A new telephone box was installed at Uwekahuna building.

> All above duties were assisted by Ranger Huanio, Jr.

A. B. Medeiros

A. B. Medeiros
Park Ranger.

CC - Fagerlund

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

HAWAII

October 31, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Daily report for the month of October.

Early report for the month. Three days installing emergency telephone lines extending from old summer camp, down to Halemauau. A double switch was also put in, in order to contact Headquarters when one line is not in working condition.

Cable in front of Halemauau look-out was also pulled out, too dangerous for visitors to lean on.

Checking started on telephone line at Uwekahuna, to observatory, up to end of truck trail, Mauna Loa, replacing new poles below six tank's and above fire catches No. 2.

Ranger and staff meeting attended to, and also fire drill and fire equipment checking.

Bringing horses from Kipuka Ki down to horse corral, preparing horses to haul feed and other material's to 13,000 ft. Mauna Loa.

Cutting poles from old Ainahou trail, beyond Lava Tube, to repair fence at the end of truck trail, Mauna Loa.

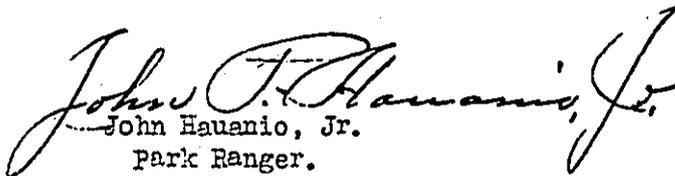
A day helping Hauanio Sr., fix up door and window screen's.

Travel count and office duty was taken care of.

Destroyed:

11-----Pigs(5 unborn included).

19-----Goats.


John Hauanio, Jr.
Park Ranger.

CC - Fagerlund

Fogelwood GOF
Notes returned
egw

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
Nov. 5, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of October 1945, is respectfully submitted;

Military units continue to close down. Puunene Naval Air Station is practically out of commission, with only Utility Squadron Eleven remaining. (Utility Squadron Eleven replaced Utility Squadron Three.) The only reason this squadron is remaining is that the airfield is better situated for bringing in crippled radio controlled target planes. At Kahului Station these planes would have to be brought in over several towns and since many of these damaged craft do not make the field before crashing it would be very dangerous.

The Air Warning Service here at Puu Nianiau has lost more than half of its men. The lieutenant in charge states that if they take the men now eligible to go home he will be forced to close down. Nothing is known as to the future plans of this station.

The inter-island radio at Red Hill is still in operation.

Weather Conditions in the Park. Intermittent rains have filled all water systems. Even the inadequate army storage tank is full and the hauling of water has ceased.

Most of the rains have been due to trade wind weather so Kapalaoa Cabin has received very little water. The main tanks there are dry although the roof tank has a fair amount of water in it.

Maximum Temperature-----67 degrees on the 17th and 18th
Minimum Temperature-----39 degrees on the 21st
Rainfall Total-----2.18 inches
Clear Days-----12
Partly Cloudy Days-----16
Cloudy Days-----3

Park Inspections by Other Governmental Officers. J. L. Robertson, Jr. of

The Public Health Service inspected the toilets and general conditions at the Summit. He intends to make another visit to the park and go into further detail on sanitary conditions with a report on his findings to be sent in to the regional director.

Public Service Contractors. Mrs. Sprinkle has not taken any parties into the crater this month although her husband is home on a 45 day leave. They both promised they would take in some of the many interested people.

The Maui Grand Hotel people have done nothing further towards turning in their report on the Old Rest House.

Ranger Guide Service. The 1942 Mauna Loa Eruption picture was shown to about 400 servicemen at the Makawao Marine Hospital.

Captain Priestman, Senior Naval Officer on Maui, and 4 other navy men were conducted on an overnight trip through the crater. The Captain has been very helpful to the park so I was glad to offer my services before he leaves the island.

Increase or Decrease in Travel. As expected, the military visitors are not so numerous and a few more civilians are visiting the park now.

Military camper figures showed a sudden drop as very few marines stayed in the Old Rest House. Most of the marines remaining on Maui are standing by on short notice to leave and are not allowed overnight liberty.

Accidents. Two marine officers who had driven up the mountain to see the moon (so they said) turned around at the checking gate and were attempting their return down the mountain when they ran off the only "U" turn between the ranger station and the park entrance. One man was only slightly injured. The other one suffered cuts and bruises about the face with a possible skull fracture. He has been either unconscious or in a state of partial amnesia ever since the accident.

Skid marks on the dry road showed the vehicle had slid sideways for a distance of about 15 feet before leaving the highway. Since visibility was good and there was no evidence of anything on the road to crowd the vehicle off it would seem that the driver was traveling too fast to properly negotiate the turn.

Although complete reports by the Military Police and myself have been drawn up we have been at a loss to get any statements from the two officers involved since the uninjured one states he was nearly asleep when the accident occurred and the other one cannot remember anything. The marine military police are giving the park a complete copy of their report on this case.

Destruction of Exotic Animals. 47 goats were killed in the crater this month.

Miscellaneous. The following letter was received recently:

THE COMMANDING GENERAL
Fourth Marine Division
c/o Fleet Post Office
San Francisco, Calif.

5 October 1945.

Dear Sir:

Upon the eve of our departure from Maui I wish to extend to you my sincere appreciation for your efforts in helping to provide recreation for the Marines on the Valley Isle.

I know that all the officers and men of the Fourth Marine Division thoroughly enjoyed the rest camp and the trips through the Haleakala Crater. Your experience and guidance on the crater trips were most helpful.

Again my thanks for an excellent job.

Sincerely,

(Signed) C. B. Cates

C. B. Cates,
Major General,
U. S. Marine Corps.

Mr. Frank K. Hjort,
c/o Ranger Station,
Haleakala Crater,
Maui, T. H.


Frank A. Hjort
Ranger-in-Charge

10-23
(May 1929)

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

FILE NO.

MONTHLY-REPORTS

September, 1945

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

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

November 9, 1945

MEMORANDUM for the Director:

There follows the report of activities in Hawaii National Park for the month of September, 1945.

General

V. J. Day was celebrated quietly on the island of Hawaii and throughout the Territory. In Hilo the victory was commemorated with a parade and public addresses by ranking army and navy officers and civilian officials.

The establishment of the 40 hour week with no additional help only succeeded in making protection of the park and accomplishment of work more difficult. There are so few available for duty here that staggering duty tours decreases the already inadequate protective force available each day. It is hoped that congress will see fit to remedy this situation before long.

The "Time" article on the Pearl Harbor disaster, September 10, that intimated the park service delayed installation of important radar stations and thereby aided the successful attack, though called to the superintendent's attention by a local resident, does not appear to have any noticeable unfavorable effect locally. It has been commented on by only a couple of other persons. A complete report on this matter was prepared for the Service at the request of the Associate Director.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 49°. At the Haleakala ranger station these recordings were 73° and 40°.

Rainfall at Kilauea totalled 5.21" and at Haleakala 1.41".

Superintendent's Special Activities

On the 15th he drove Governor Stainback to the eastern end of the Kalapana addition and thence to Hilo discussing the project with him en route. Two selective service board meetings at Olna were attended and the remainder of the month he was at park headquarters occupied with the Pearl Harbor report, revising the 1947 Estimate, correspondence, routine inspections and observations of the Halemau mau during a period of uneasiness.

RECEIVED AS FOLLOWS

The assistant to the superintendent made a brief trip to Honolulu, September 26-28 to confer with Dr. Harvey Fisher and rewrite and type the final manuscript of the account for publication on the results of their trip to Midway island. The Director had urged that this be completed for early publication. The paper was mailed on the 29th and it is hoped it will appear in the November "Condor". He made one trip to the shoreline at Halape with Mr. Brock of the Territorial fish and game commission, and with Miss Carey Miller completed arrangements for the Agricultural Experiment Station to cooperate in the study of the food habits of the Hawaiian Goose. He prepared the 1947 FP and FP Estimate and was otherwise occupied on routine work at headquarters and assisting in the interpretation program.

Research and Observation

The only activity of the volcanoes of especial interest during the month was a period of avalanching from the southwest rim of Halemauau. This avalanching was the culmination of the rim-crack widening in this area observed during the past few months. This activity brought many additional visitors to the crater and started the usual rumors of an eruption. The largest slide occurred at 5:59 PM on September 17 when a section of the crater rim about 80 feet long and 8 feet wide collapsed. It caused an earthquake large enough to make a conspicuous record on the observatory seismogram.

At 6:33 AM September 19, an earthquake originating between Mauna Loa and Mauna Kea was reported felt over the entire island. In all there was a total of 31 seismic disturbances during the month.

Besides giving close attention to the sliding at Halemauau the volcanologist continued moving books, manuscripts, etc., from the observatory basement into the library room and was otherwise occupied by seismologic and other routine work. He was assisted by one CPS assignee who made one trip to Kona to set up the seismograph in a new location. At the superintendent's suggestion he commenced a survey at Halemauau to establish new elevation points on the crater walls so that the depth of the lava fill might be readily determined in the event of an eruption.

Mr. Brock, chief of the territorial fish and game division, after his visit to the shoreline confirmed previous ranger reports that Halape was a remarkable place for colorful reef fishes.

The insects of the family Cerambycidae reported found last month on the Mauna Loa slopes, were identified by Dr. O. H. Swezey, as a new species to which he gave the name Neoclytarus dodonaea. This is the second new insect species collected by Ranger Davis.

Associate Professor Charles Engard, Univ. of Hawaii was in the park for 10 days collecting material for his studies of the Hawaiian raspberry, Rubus. He also collected algae and other plants from steam vents and gave advice on the dying Ohia Lehua problem.

RECEIVED AS FOLLOWS

Dr. Harold St. Horn completed his field work in the Haleakala area and reported the discovery of a new lake east of Wai Anapanha at 6,200 feet elevation not shown on the topographic maps.

Ranger Service

Ranger Davis completed work on the N.P.S.-I-3 forms for the private lands in the Kalapana addition.

Rangers made one traffic count, spent considerable time on telephone line repairs, checked fire equipment weekly, made the quarterly fire and sanitation inspection, conducted patrols, completed the pig trap and performed goat and pig control work.

Interpretation

Sixteen lectures were given to a total of 840 persons. Of these, 2 were given outside the park with 140 persons attending. Four auto caravans were conducted with 112 persons in attendance. Guided trips for Naval Air Station personnel in Hilo were commenced on the 23d and it is planned to continue these tours every Sunday afternoon. Heretofore, we have been able to do very little for Navy personnel at Kilauea.

The Red Cross guides at the Kilauea Military Camp were given training in natural history and park rules and regulations by the chief ranger.

Forest Protection

A check was made on the wiliwili plants set out last month at Hilina Pali and they were found to be in good vegetative growth.

As a part of the rare plant protection project 5 seedlings of 4 different species germinated in the park nursery were given to Mr. Albert Horner for planting on his property.

A gate was built in fence about the large koa protection plot on the Mauna Loa grazing land to facilitate removal of cattle that squeeze through the wires.

At Kilauea rangers disposed of 9 goats and 6 pigs and at Haleakala 81 goats were disposed of.

Not reported in our August report was the disposal of 8 goats and 3 pigs at Kilauea.

Public Service Contractors

Shortage of water necessitated closing the Volcano House cottages and refusal to accept new reservations. There has been no abnormal lack of rain and heavy visitor use and inadequate storage capacity in old leaking tanks appear responsible.

RECEIVED AS FOLLOWS

At Haleakala the concessioner looked over the old rest house with a view toward improving it for use by overnight guests.

Cooperating Government Agencies

The portable x-ray unit of the Territorial Board of Health was in the park on the 12th. All park employees, residents and hotel employees were requested to attend by the superintendent and the Public Health Services had requested all food handlers in the park to attend. X-ray pictures were taken and blood tests given without charge. This free service is being extended to every community on the island.

Ranger Hjort reported from Haleakala that Brig. General Powell of the Army Signal Corps inspected army installations at Haleakala and the General stated it was his intention to keep the installation on Red Hill in operation as it was useful and installed at great cost.

Police Protection

U. S. Commissioner Irwin of Hilo, on September 14, dismissed the case against William Ah Chin for lack of evidence. He had been arrested in July for violation of regulations governing operation of commercial vehicles in the park.

The same driver was again apprehended on September 22 for the same offense by two rangers and another driver, Vicente Eblacas, of the same company, the Transilux, for the same offense on the 29th. These cases were referred to the U. S. Attorney in Honolulu with the request they be heard in the U. S. District Court.

Louis de Leon, arrested in August, pleaded guilty before the U. S. Commissioner on the 29th and was fined \$1.00.

Apparently knowing that we are very short handed and cannot patrol the park, drivers of the Transilux company have been quite bold in violating the regulations. The U. S. Attorney was helpful in advising on this matter and his suggestions were followed in the two arrests made.

At Haleakala one arrest was made and the 6 marines who were found with silversword leaves in their possession were turned over to the Division Provost Marshal.

Accidents

On September 22, PFC Edward Chang of the Kilauea Military Camp, narrowly escaped death when the brakes locked on the vehicle he was driving as he attempted to slow down, at the 25 mile sign on the Mamalahoa highway at park headquarters. The car turned over and almost completely wrecked.

RECEIVED AS FOLLOWS

Visitors

Governor Ingram Stainback, of Hawaii and Mr. Jack Fahy, of the Division of Territories, Interior Department, arrived at the Volcano House on the evening of the 14th. They were met by the superintendent and chief ranger and shown pictures of the volcanoes that night. Mr. Fahy was taken on a park tour by the chief ranger the following morning while the superintendent was taking the governor to Kalapana.

Travel

At Kilauea there were 31,250 visitors of which 13,289 were in the armed forces and at Haleakala these figures were 4,481 and 3,405.

For the travel year a total of 381,059 ^{persons} visited the park of which 205,094 were in the armed forces.

Miscellaneous

The Transilux Bus Company of Hilo, with whom we have had so much trouble the last few years, purchased the Kamuela Bus Co., that operated from Hilo around the north end of the island.

One bull-doxer loaned to the army early in the war was finally returned in good working order.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
c.c. - Files

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

October 1, 1945

MEMORANDUM for the Superintendent.

There follows the monthly report on activities of the Assistant to the Superintendent for September, 1945.

Administrative work

Special reports prepared included the Forest Fire Protection and Maintenance Estimate for 1947, a project construction program revision, not yet completed, and photographs of roads, buildings, and trails showing need for funds for deferred maintenance work. Routine reports were completed as usual. Assistance was given in the preparation of rangers' arrest reports and in revising of the fire alarm instructions. Plumbing fixtures were sent to Haleakala for temporary employees quarters.

Contact Work

Mauna Loa movies were shown as follows:

9/4	K.M.C.	50 persons	1 hr.
9/11	K.M.C.	50 "	1½ hr.
9/16	Obsy.	20 "	1½ hr.
9/18	K.M.C.	60 "	1 hr.

A special talk was given the K.M.C. Red Cross Guides (9 persons, 2 hrs) to acquaint them with general park lore.

A talk was had with Cmdr. Patroni, Commanding CASU, Hilo NAS, to find out what services available here they would care to try to use.

Research Work

The field work at the Halape shore was completed as planned with a trip down with Mr. Brock of the territorial fish & game commission, who made a checklist of the fishes. He found Halape a remarkable place for colorful reef fishes because of its isolation and protection. The specimens collected were sent to the University of Hawaii on Sept. 28. Identifications will be made by Dr. Hiatt.

The account^{for} publication on results of the Midway trip urged by Tolson was completed and mailed from here on Sept. 29. It was necessary to make a quick trip to Honolulu, Sept. 26-28, to rewrite and type the final manuscript with Dr. Fisher in order that publication would be possible in the November issue of The Condor. Transportation on army plane^{emergency} was authorized for this^{emergency} by Col Muller. Publication at a later date would reduce the value of the paper.

Miss Carey D. Miller completed arrangements for the Agricultural Experiment Station to cooperate in the Hawaiian Goose food^s habits study by making chemical analyses of the more important foods. This will round out the data obtained from droppings analysis in work done at the park. This is a real example of cooperation by the HAES, for the laboratory work they are undertaking will consume considerable time of several workers there.

Paul H. Baldwin

Paul H. Baldwin

Assistant to the Superintendent.

PHB:mp

*Japanland GOF
P. & T. returns
E. W.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
October 3, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of September, 1945 is respectfully submitted;

Several of the installations used by the military on Maui are beginning to close down. The Fourth Division of Marines is shipping back to the Mainland all its men who have had 18 months or more overseas. The rest are to be used as military police in Japan and China. One of the outfits, a carrier aircraft service unit (C.A.S.U. 4), that was stationed at Puunene Naval Air Station is closing down. Many other navy air units are closing.

The army outfit stationed at Puu Nianiau is rapidly losing its personnel and no replacements are coming in. It is not known what is to become of this camp but something should happen within the next 30 days.

Weather Conditions in the Park.

Maximum Temperature-----72 degrees on the 17th
Minimum Temperature-----40 degrees on the 6th
Rainfall Total-----1.41 inches
Clear Days-----15
Partly Cloudy Days-----15
Cloudy Days-----None

Improvements. The model of the crater now housed in the Observation Station was painted in natural colors by Assignee Mitchell this month. Many names were carved and written on the model so the new painting is a pleasing improvement.

Public Service Contractors. Mrs. Sprinkle did not take any tourists into the crater this month.

The owners of the Maui Grand Hotel looked over the facilities at the Old Rest House with an eye to improving the building and using it for overnight guests. They plan to submit a report through my office to you on what they wish to do there.

Cooperating Non-Governmental Agencies. Professor Harold St. John returned to Honolulu after completing his survey of the plants in Koolau Gap, Kuki, and around Lake Waiapanapa. Assignee Mitchell has been sent to the Bishop Museum for a time to help identify the plants and to get more data on the plants collected for our herbarium here. // ?

Flora. I never did get around to find how many silverswords bloomed this season but know that several plants visible from the trails were seen to be in bloom.

Birds. The Amakihi are still feeding in the mamani trees outside the checking station but no Apapane have been seen this month.

Increase or Decrease in Travel. Several convoys of Marines desiring to see the park before being shipped home caused the military visitor figures to be larger this month than last.

Civilian figures went just over the thousand mark again this month.

Visitors. Brig. General Powell of the Army Signal Corps visited the army installations in the park this month. He stated that it was his intention to keep the unit on Red Hill as it is useful and was installed at a great cost.

Police Protection. On Sept. 9, five silversword leaves were found in the possession of a party of six marines, under the charge of Sgt. A. C. Granath, from the Fourth Motor Transport Co., Fourth Marine Division. They were reported to the Division Provost Marshal by the Park Warden. The action taken has not yet been learned.

Fire Protection. Assignee Mitchell accidentally filled the kerosene heater under some plants being pressed in the garage with gasoline which resulted in a small fire. He was able to extinguish the fire with only the loss of the plants resulting.

Destruction of Exotic Animals. 81 goats were killed in the crater this month.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

October 8, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Rangers Narrative Report for September, 1945.

Administration

Ranger Davis completed compilation of data on the Kalapana extension lands.

Interpretation

The scheduled interpretative program for September consisted of three weekly illustrated talks on Volcanoes. Guided trips for U. S. Navy personnel stationed at N. A. S. Hilo began on Sunday, September 23. These park tours are scheduled for every Sunday afternoon from 1:30 to 4:00. They enable us to contact a portion of the local Navy personnel which we heretofore had not done to any important degree.

K.M.C. Red Cross guides were given training in Natural history and park rules and regulations.

The Chief Ranger talked to a group of 100 parents and Teachers at Pahala on September 10. Fifteen of the 26 teachers there are new from the Mainland.

Research

The Chief Ranger spent considerable of his own time on the exotic plant paper.

Associate Professor Charles J. Engard of the University of Hawaii, was in the park from September 4 to 15. He collected material for his studies on the organogenesis of Rubus. He also collected algae and other plants from the steaming vents at Kilauea and advised on how to study the dying of ohia trees.

Travel

One travel count was made.

Maintenance

A gate was built into the 100-acre cattle enclosure to facilitate removal of cattle that sometimes squeeze through the fence from the outside.

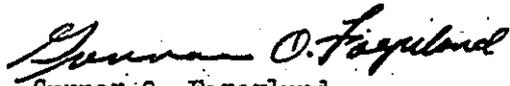
Ranger Medeiros and Hauanio spent considerable time repairing telephones and telephone lines. We shall attempt to maintain lines to Halemauau, Uwekahuna, Puu Ulaula, and possibly to Mokuaweoweo in operation.

Protection

Fire equipment was checked weekly. The quarterly fire and sanitation inspection was done.

Transilux busses continued to carry passengers from Hilo to the park and return. Ranger Davis apprehended one bus on September 22, and the Chief Ranger apprehended another on September 28.

One automobile accident occurred for which see report by Ranger Davis.


Gunnar O. Fagerlund
Chief Ranger.

GOF:mp

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

October 2, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for September, 1945.

Public Contacts

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hrs.</u>
Obs.	9/2/45	30	1 hr.
K.M.C.	9/21/45	60	45 min.
Obs.	9/30/45	18	1 hr.

Park Tour

Navy	9/30/45	28	3 hrs.
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Kalapana Extension Project

Additional information on NPS L-3 forms, sketches of individual tracts, a sketch of the entire section and corrected NPS L-4 forms were transmitted to the Director under cover of letter dated September 22, 1945.

Violations and Accidents

Considerable time was devoted to the enforcement of park rules and regulations.

On September 22, 1945, William Ah Chin was again arrested for the same offense. (Kindly refer to report dated September 24, 1945.

The case of Luis de Leon and Palabiano Samante came up before Judge Irwin on Saturday, September 29th. The disposition of the case is not known at this writing.

On September 30 two pig hunters namely, Joseph P. Aguiar and John L. Perreira of Hilo, Hawaii, were questioned on the old Keauhou road near Pauahi Crater by Chief Ranger Fagerlund and myself. Detailed report will follow.

On September 28, 1945 at 5:45 PM, PFC Edward Chang of D.F. Station, Kilauea Military Camp, narrowly escaped death when the vehicle he was driving over turned on the Mamalahoa Highway near the Holmes Cottage. According to the driver his brakes locked while attempting to slow down in the 25 mile speed limit zone.

Park Nursery

Activities at the Nursery consisted of watering the plants frequently and dusting to control leafrollers and aphids.

The wiliwili plants at Hilina Pali were checked on the 13th of this month all were found to be in good vegetative growth. They were fertilized with 10-10-5.

On September 20th the following plants were delivered to Mr. Horner:

2 Kokia cookii
1 Kokia Rockii
1 Mezozonon Kavaense
1 Hibiscadelphus Hualalaiensis

Fire and Sanitation Inspection

This inspection began on September 27th.
Complete report will follow.

Miscellaneous

Checking fire equipment, motor patrol and Entomological Research.

The large horned caterpillar brought in by Superintendent Wingate completed its metamorphosis on September 1st and has been identified by the undersigned as *Celerio lineata* (Habr) (Sphinx Moth).

O. H. Swezey lists the food plants of the caterpillar as chiefly portulaca, although *Godetia*, four o'clock *Fuchsia* and *Boerhaasia* are also eaten.

Baldwin has found it feeding on the evening primrose.

The Cerambycid mentioned in my last monthly report has been described by Dr. O. H. Swezey as a new species. He has named it *Neoclytarlus dodonaea*.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Park Ranger

CJD:mp

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

October 4, 1945

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Report of activities for the month of September, 1945.

From Sept. 1 to the 8th, 1945, accumulated time while at Haleakala, Maui was taken off.

One travel count was performed at the Hilo Entrance, at the Puhimau section a pig trap was completed.

A gate was built on the fence around a Koa plot at Ohikea section. Some time was spent on pig and goat control work. Few patrols around the Chain of Craters, Halemaumau, and the old Keauhou road was performed.

A considerable amount of time was spent on telephone lines check up and repairing. On line #10, Mauna Loa sections, and line #11, Byron ledge, some new poles were installed. The telephone line #11, to Makaopuhi, Nene and Hilina, Halemaumau, Byron ledge, the line #9 lava tube, the line #10, Hilo Entrance to Kau Entrance and Mauna Loa and to End of Truck trail, all were checked upon and repairs were done. Up to this period all were working in order.

*For the month of Sept. 1945, 4 Pigs +
2 goats were destroyed*

Antone B. Medeiros

Antone B. Medeiros
Park Ranger.

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

October 8, 1945

MEMORANDUM : For the Superintendent, through the Chief Ranger.

SUBJECT: Daily report for the month of September.

On the first day of the month, horses were taken down to Kipuka Nene for Mr. Baldwin to make a trip to Halape for 2 days and return.

One day was spent with the Maintenance bringing tractor from Namakani Paio in order to start the roller. Also did mechanical work on roller. Ranger Medeiros and I put out half a days work on traffic at sulfur banks curve, while Waltjen and rest did road patching.

Worked on telephone lines, starting from Observatory down to Kau entrance, up to fire caches No.1, Mauna Loa. At few places broken branches were found on the lines.

Spent two days handling the operator job, requested by Mr. E. Wingate, in order to give Margie more time to finish some important typing. One day installing regulation signs at Bird park, Uwekahuna, and Lava tube.

Office duty, travel count, were taken cared of.

Finished pig trap at Puhimau.

Pigs and goats destroyed were:

Goats-----7
Pigs-----2


John P. Hauanio, Jr.
Park Ranger

CC - Fagerlund

JPH:mp

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

HAWAII

October 7, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for September.

Landslides from the Halemauau rim became unusually conspicuous on Sept. 17 and continued for a week with diminishing frequency. Apparently the largest slide occurred at 5:59 pm Sept. 17 when a section of the rim about 80 feet long and 6 or 8 feet wide went in. It caused an earthquake sufficiently large to make a conspicuous record on the Observatory seismograph. One crack on the SW rim opened a foot or two and another farther back opened 2 CM. The cracks at the tourist observation place showed but little or no movement.

An earthquake at 6:33 AM Sept. 19 which originated between Mauna Loa and Mauna Kea was felt over the entire island.

Northeast tilt continued during the month. Northerly tilt, however, was less than during the 3 preceding months.

The following table shows some of the data obtained during the month:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Sept. 2	Slight NNW	6	2.50
" 9	Mod ENE	6	2.75
" 16	Slight NW	4	1.00
" 23	Slight NE	9	5.75
" 30	Slight ENE	6	2.75

Work of R. H. Finch

As time permitted more of the library was moved out of the basement. Seismological routine took up a large part of each day.

Work of G. C. Omer

In addition to doing some janitor work in the observatory and assisting in seismological routine he set up the Kona seismograph in its new location under a building at the Konawaena school. An electric drive was installed on the Bosch-Omori seismograph. Whenever possible he worked on magnetic statistics.

R. H. Finch
Volcanologist

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

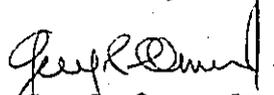
Subject: Job Journal, Guy C. Omer, Jr., Month of September, 1945

- Sept. 1 - Sat - Prepared Job Journal for Supt. Wingate. Prepared specialized copies for Finch and Fagerlund. Kerosene and Supplies to Bosch-Omori Cellar. Started long series of magnetic statistics. This study was carried on and concluded during free time during this month. This is preliminary material for a magnetic program at H.V.O. It will be prepared and sent in for publication during October if sufficient free time is found. Made the morning change of the Bosch-Omori seismograph.
- Sept. 2 - Sun - Made the Mauna Loa seismograph trip. Carried out most of the morning routine. Made the morning change of the Bosch-Omori seismograph.
- Sept. 3 - Mon - Legal holiday. Made the morning change of the Bosch-Omori seismograph.
- Sept. 4 - Tue - ||
5 - Wed - ||
6 - Thu - ||
7 - Fri - ||
8 - Sat - || On Leave
- Sept. 9 - Sun - Normal day off
- Sept. 10 - Mon - Radio Time Check of our Standard Clock. On Traffic count at Hilo Entrance during the afternoon.
- Sept. 11 - Tue - Traffic Count at the Hilo Entrance during the afternoon. Some H.V.O. routine in morning. Made the morning change of the Bosch-Omori seismograph.
- Sept. 12 - Wed - Home in bed, sick.
- Sept. 13 - Thu - Continued statistical work. Made the morning change of the Bosch-Omori seismograph.
- Sept. 14 - Fri - Made the Mauna Loa seismograph trip. Some janitor work. worked on seismograph time-marking circuit. Some magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- Sept. 15 - Sat - continued statistical work until 6 p.m. Made the morning change of the Bosch-Omori seismograph.
- Sept. 16 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Sept. 17 - Mon - Carried Kerosene, Fluid, and Dry-cell to Bosch-Omori cellar and serviced the seismograph. Serviced car #35. Trucked washing machine to quarters #20. Some magnetic statistics. Installed the electric wiring for the new electric drive for the Bosch-Omori seismograph. Made the morning change of the Bosch-Omori seismograph.
- Sept. 18 - Tue - Installed the new electric drive in the Bosch-Omori seismograph. Carried on further statistical work. Made the morning change of the

Bosch-Omori seismograph.

- Sept. 19 - Wed - Made a radio time check of our standard clock. Did some work on the H.V.O. temperature and tilt problem. Carried on further statistical work. Made the morning change of the Bosch-Omori seismograph.
- Sept. 20 - Thu - Made the Mauna Loa seismograph trip. carried out further statistical work. Made the morning change of the Bosch-Omori seismograph.
- Sept. 21 - Fri - magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- Sept. 22 - Sat - Made the Mauna Loa seismograph trip. Further statistical work. Made the morning change of the Bosch-Omori seismograph.
- Sept. 23 - Sun - Day off, but further statistical work and gathered together freight for the Kona trip.
- Sept. 24 - Mon - at Kona, placed previously damaged equipment back into operation. Started adjustments of the Kona seismograph to return it to operation at its new location. Worked until 6:30 p.m.
- Sept. 25 - Tue - at Kona, completed adjustments and placed the seismograph back into operation. Instructed the new worker in the care and operation of the seismograph. Returned to Park after 7 p.m.
- Sept. 26 - Wed - Hilo trip. Conference with Kim about the new Kona workers and information about arrangements.
- Sept. 27 - Thu - Finished the statistical series. Started to plot this data with view towards publication. Made the morning change of the Bosch-Omori seismograph.
- Sept. 28 - Fri - Made the Mauna Loa seismograph trip. Finished 1st draft of curves for paper. Made the morning change of the Bosch-Omori seismograph.
- Sept. 29 - Sat - Began the Halemaumau elevation job. Reconnaissance around the pit. Located three pit bench-marks. The fourth bench-mark has evidently fallen in. Search of literature and of H.V.O. files for coordinates and elevation of bench-marks. Calculated relative rectangular coordinates from geographical coordinates for plotting on plane table.
- Sept. 30 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.

Submitted,


Guy C. Omer, Jr.
Oct. 1, 1945

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Superintendent

MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS

Hawaii National Park
(Name of Area)

Number of Persons Engaged in Interpretive Activities			<u>September</u>
	Technical	Administrative	Other
Permanent	<u>One</u>	<u>One</u>	<u>One</u>
Temporary	<u>One</u>	<u>One</u>	<u>One</u>
			Month
			Year

CONNECTED TRIPS	No.	Attend.	Duration*	V.P.H.**
Auto Caravans	4	112	3 hrs.	336
Hiking Trips				
Ruins				
Total	4	112	XXX	336

LECTURES				
Campfire				
Hotel or Lodge	8	550	1 hr	550
Military Camp				
Museum	6	150	1 hr	150
Outside of Park	2	140	1 hr	140
Special **				
**Includes all other types	16	840	XXX	840

ATTENDED INTERPRETIVE STATIONS & MUSEUMS			
Name of Station			
Observatory	300	1 hr	75
	300	XXX	75

UNATTENDED INTERPRETIVE STATIONS			
Name of Station, Nature Trail, etc.			
			XXX

BROADCAST		Total Contacts	1252
Station	Subject	Total V.P.H.	1251
		Total Visitors	

Name Gunnar O. Fagerlund
Title Chief Ranger

Mail attention Naturalist Division, National Park Service, Washington, D. C., in time to arrive on or before the tenth of the month following the one reported on.

* Average Duration of Activity.

** This column represents visitor participation hours. The figure is obtained by multiplying the visitor attendance by the average duration of the contact; i.e., the average time devoted to the trip, lecture, museum visit, or use of interpretive stations.

10-28
(May 1928)

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

FILE No.

MONTHLY REPORT

August, 1945

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.

ARNO B. CAMMERER,
Director.

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October 30, 1945

MEMORANDUM for the Director:

There follows the report of activities in Hawaii National Park for the month of August, 1945.

General

The sudden termination of the war with Japan on August 14 was received with joy and relief. The news flash was followed in the park, in Hilo, and on the island of Hawaii, by much informal celebrating though it did not quite equal the reported exuberance of San Francisco. Maui received the news quietly with armed forces personnel ordered back to their posts. The event was announced at Kilauea by sounding the siren for the first time since the start of the war except for air raid warnings, etc.

Preparation of the 1947 Estimate consumed much time and its preparation was hampered by lack of any information on the new pay act and instructions that became meaningless with the end of the war.

Some field investigations of the Kalapana additions were made during the month to provide photographs and additional material for a report to your office on the area. Governor Stainback wrote that he would be over for a visit to the addition during the month but did not arrive.

General R. C. Richardson Jr., Military Commander for the Territory, rescinded all the remaining security orders effective August 16.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 52°. At the Haleakala ranger station these recordings were 70° and 41°.

Rainfall at Kilauea totalled 7.81" and at Haleakala 3.79".

Superintendent's Special Activities

With the exception of a one day trip to the Kona District, one to Kalapana and through the Puna District, and trips to attend Selective Service Board meetings at Oloa, the superintendent was at headquarters throughout the month largely occupied with the 1947 Estimate. One inspection of the Mauna Loa truck trail was made.

RECEIVED AS FOLLOWS

The assistant to the superintendent was on annual leave for 16 days which he spent assisting Dr. H. W. Hiatt, of the University of Hawaii, on his cooperative studies of shore line fauna. He made one field trip to the Kalapana area with Dr. Hiatt and prepared a report of observations. He also furnished a report on the bird life of the Kalapana addition. The remainder of the month he was on duty at headquarters.

Research and Observation

There were no eruptions of any of the volcanoes though both Kilauea and Mauna Loa exhibited signs of uneasiness. Fuming in greater amounts than usual was observed over Mokuaweoweo several times and conspicuous north ground tilt at Kilauea indicated a pressure build up. Cracks on the southern side of Halemauau continued to show widening with one crack opening 27 mm. Fresh cracks appeared in the ash in this region. There was one felt earthquake that occurred on the northeast slope of Mauna Loa on the 9th.

With the exception of several days spent in moving books stored in the basement to the library room the volcanologists time was consumed by seismological routine in which he was assisted by OPS assignee Omer. The latter spent two days in Kona moving and setting up the seismograph at a new location.

Chief Ranger Fagerlund and Ranger Hauanio made a three day pack trip through the Kalapana addition to obtain photographs and information on the area. Mr. Fagerlund spent considerable time on the paper on exotic plants and Ranger Hauanio spent about a week assisting Dr. Hiatt in his shore line fauna studies. Hauanio has a broad knowledge of Hawaiian marine life.

Dr. Harold St. John continued botany studies and plant collecting in the Haleakala area camping for a time in the upper Kipahulu valley. He is being assisted part time by OPS assignee Mitchell. For one of their camps, supplies were parachuted to them by Navy planes.

Ranger Service

Ranger Medeiros spent the entire month in the Haleakala section.

Ranger Davis in addition to regular duties continued work on MPS 1-3 forms and preparation of plot maps for the private lands in the Kalapana additions.

One travel count was made by the rangers during the month.

Interpretation

A total of 22 lectures were given with a total attendance of 884 persons. Of these 7 lectures were given outside of the park to a total of 400 persons.

Two auto tours were conducted with 77 persons in attendance and two conducted hiking trips made with 85 persons making the hikes.

RECEIVED AS FOLLOWS

On Maui the park warden took a group of 8 Wives on a three day camping trip through the crater.

Forest Protection

Ranger Davis continued work at the nursery on the rare and endangered forest species project. This work received a minor set back when children went into the nursery and uprooted 21 seedlings and plants. A fence was later built about the area to prevent this happening in the future.

Ten Wiliwili seedlings were set out in the Hilina Pali region during the month and it was observed that some of the Mamani planted there shortly before the war had survived army activities, goats and lack of attention. This region was formerly well forested by Mamani.

At Haleakala a total of 44 goats and 2 pigs were disposed of. No control activities were undertaken at Kilauea.

Some insects of the family Cerambycidae were found working in both live and dead branches of Aalii at about the 6,400 feet elevation on Mauna Loa. They appeared to be injurious to the plant.

Police Protection

On the 7th Luis de Leon was apprehended hauling lava rock from the park. A warrant for his arrest was requested from the U. S. District Attorney in Honolulu and the case was still pending at the end of the month as was the case of William Ah Chin, arrested in July, for violation of bus regulations. Other minor infractions were handled on the spot by rangers or other employees. The staff is entirely too small to provide even minimum protective patrols and much vandalism results.

Public Service Contractors

The Chief Ranger furnished information to the K. Hatayama Bus Service for use in preparing information maps of the park that the concessioner plans to have printed.

In spite of fairly good rainfall the Volcano House water supply was getting rather low. Heavy visitor use and loss by seepage from the old storage tanks appear to be the cause.

Cooperating Government Agencies

A sizeable block of land on the northern Haleakala slopes adjoining the park boundary east of the Haleakala road has been withdrawn from the Haleakala ranch for a period of 25 years and is to be planted to forest by the Board of Agriculture and Forestry. This is to be done in an effort to increase the water supply.

RECEIVED AS FOLLOWS

As usual exotic species are to be used but as these, it is understood, are to be conifers the planting should not be detrimental to the park.

On August 18 and 23 U. S. Public Health Service officers visited the park inspecting sanitation facilities and the water supply system. They were assisted by the rangers.

Accidents

A navy jeep ran off the Haleakala road on the curve about $\frac{1}{4}$ mile above the ranger station, slightly injuring the four occupants, all navy personnel. Ranger Hjort reports that statements from the navy have not been received and exact details are not known.

Travel

At Kilauea there were 33,054 visitors of which 13,594 were in the armed forces. At Haleakala these figures were 3,467 and 2,276. With the end of the war and gasoline rationing civilian travel to Haleakala went over the 1,000 mark for the first time.

Miscellaneous

Newspaper reports stated that Mr. Paul Fagan, California and Hawaiian capitalist, is completing plans for the development of Hana, Maui, as a tourist resort. He recently purchased the Kaeleku Sugar Plantation at Hana and has worked out an agreement with the Watson Navigation Co., for a tourist hotel and resort facilities. Hana, at the eastern foot of Haleakala mountain, is one of the most beautiful spots in the Territory and heretofore has been seldom visited by tourists.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
c.c. - Files

RECEIVED AS FOLLOWS

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

September 4, 1945

MEMORANDUM for the Superintendent.

There follows the monthly report for August 1945 for A to S.

16 days (128 hrs.) of annual leave was taken during the month. This time was given to working on a marine life study at Halape with Dr. Hiatt. Fifteen days were spent at Halape making collections. It is planned to publish the results when identifications of the forms collected have been received from specialists.

One management principle evident as a result of the work is that Halape should never be heavily fished for resident species of fish, as it could be fished out of the rare and localized species. It is safe to permit heavier fishing of wandering fish, such as ulua.

A trip was made to the Kalapana extension August 28 and reported upon separately.

Miss Carey Miller was asked to help in obtaining chemical analyses of the most important Hawaiian Goose foods to complete the food habits study made by Mitchell and Baldwin.

Administrative jobs, reports, etc., were done while on duty status.

Paul H. Baldwin
Paul H. Baldwin
Asst. to the Superintendent.

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

September 13, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for August, 1945.

Administration

Ranger Medeiros spent the entire month in the Haleakala section.

Ranger Davis spent a considerable part of his time on the Kalapana extension tracings and N.P.S. 1-3 forms.

The Chief Ranger and Ranger Hauanio spent 3 days on a photographic pack trip in the Kalapana extension.

One ranger staff meeting was held.

Interpretation

The scheduled interpretive program for August consisted of three weekly illustrated talks on Volcanoes.

Interpretive programs were arranged and carried out for the following groups encamped at Hale O Aloha:

Methodist Youth Institute
Seventh-Day Adventists.

The Chief Ranger gave two lectures at the Hilo USO and one at the Hilo N.A.S. officers club.

The Chief Ranger discussed with Mr. Hatayama his proposed road and trail map of the park and provided him with information for it.

See the statistical report for complete data on interpretive services given.

Research

The Chief Ranger devoted considerable time to work on the exotic plant paper.

Ranger Hauanio spent nearly a week in connection with the shore fauna study made by Dr. Hiatt and Mr. Baldwin.

Travel

With the help of assignee Omer the rangers made one travel count.

Maintenance

Lt. Kirby of CASU at N.A.S. Hilo agreed that they would repair the Lava Tube bridge but nothing has been done to date.

Protection

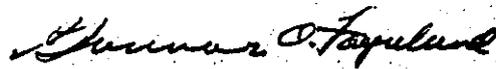
Fire equipment was checked weekly.

The Koa plots were checked once.

On August 7th Luis de Leon was arrested for hauling rock from the Park.

Clifford Jinbo of Honolulu was picked up at the Lava Tube on August 17th for writing his name on a sign. He was released after he and his mother were instructed about park purposes and regulations.

Shizue Sakaguchi and Shigemasa Matsuura of Oloa, were arrested on August 19, by Ranger Hauanio, for breaking ohelo berry shrubs. They were released after instructing them about park purposes, regulations and penalties for violations.


Gunnar O. Fagerlund
Chief Ranger.

GOF:mp

MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS
Hawaii National Park
Name of Area

Number of Persons Engaged in Interpretive Activities
 Technical Administrative Other
 Permanent One One
 Temporary
 August
 Month
 1945
 Year

CONDUCTED TRIPS		No.	Attend.	Duration*	V.P.H.**
Auto Caravans		2	77	1 1/2	115
Hiking Trips		2	85	2 1/2	212
Ruins					
* #List other types Total		4	162	XXX	327
LECTURES					
Campfire		3			
Hotel or Lodge	Kilauea Military Camp	8	262	1	262
Museum		7	222	1	222
Outside of Park		7	400	1	400
Special**					
**Includes all other types Total		22	884	XXXX	884
ATTENDED INTERPRETIVE STATIONS & MUSEUMS					
Name of Station					
Observatory			300	1/2 hour	75
List by name and type			300	XXX	75
UNATTENDED INTERPRETIVE STATIONS					
Name of Station, Nature Trail, etc.					
List by name and type				XXX	

BROADCASTS		Total Contacts
Station	Subject	1346
		Total V.P.H. 1286
		Total Visitors
		Name <u>Gunnar O. Fagerlund</u>
		Title <u>Chief Ranger</u>

MAIL ATTENTION NATURALIST DIVISION, NATIONAL PARK SERVICE, WASHINGTON, D. C., IN TIME TO ARRIVE ON OR BEFORE THE TENTH OF THE MONTH FOLLOWING THE ONE REPORTED ON.
 * AVERAGE DURATION OF ACTIVITY.
 ** THIS COLUMN REPRESENTS VISITOR PARTICIPATION HOURS. THE FIGURE IS OBTAINED BY MULTIPLYING THE VISITOR ATTENDANCE BY THE AVERAGE DURATION OF THE CONTACT; I.E., THE AVERAGE TIME DEVOTED TO THE TRIP, LECTURE, MUSEUM VISIT, OR USE OF INTERPRETIVE STATIONS.

cc - Director
 cc - Regional Director
 Fagerlund

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

September 4, 1945

MEMORANDUM for the Superintendent,
(Through the Chief Ranger).

SUBJECT: Monthly narrative report for August, 1945.

Public Contacts

Interpretive work carried on during the month was as follows:

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hrs.</u>
K.M.C.	8/7/45	25	45 min.
Observatory	8/12/45	32	1 hr.
K.M.C.	8/14/45	22	45 min.
K.M.C.	8/21/45	25	45 min.
Observatory	8/26/45	25	1 hr.
Y.M.C.A.	8/27/45	60	1 hr.
K.M.C.	8/28/45	40	45 min.

Hikes

Methodist Youth Inst.	8/23/45	45	1 hr.
4-H Group	8/28/45	40	4 hrs.

Park Tours

Church Group	8/15/45	32	1½ hrs.
" "	8/24/45	45	1½ hrs.

Kalapana Extension Project

This project progressed about 80% during the past 31 days. The tracings of individual tracts of land are just about complete, and these, together with the N.P.S.L-3 forms will be completed shortly.

Park Nursery

Germination of *Fagaria dipetala* var. *gominicarpa* (Ae) took place on the eleventh of August, seventy four days after planting. The seedlings are vigorous and are doing well.

The seeds of *Fagaria hawaiiensis*, var. *anceps*, forms *petiolulatum*, collected by Mitchell in 1943, and set out in the nursery on July 19th have not germinated to date. This tree is exceedingly rare, probably extinct in Bird Park according to Mitchell.

A total of ten *Erythrina monosperma* (Willivile) seedlings were set out at Hilina Pali this month. It was observed that some of the mamani trees set out by Olson at Hilina Pali are still alive. If the diameter of the wire surrounding them is increased, weeds and grasses removed, and the plants fertilized, it is believed that these plants will recover and grow normally.

The nursery received a minor set back when 21 seedlings and plants were pulled out by children. Only one plant was recovered. A fence has since been constructed around the nursery, however, it will need barb wire at the top and bottom to exclude people.

Violations

On August 7th Luis de Leon was observed by Ranger Kauano hauling lava rock within the park boundary. Investigation by the undersigned disclosed that de Leon had been hauling the rock from Halemauau to 29 miles. He was instructed to return the rock to Halemauau. Charges will be preferred against him for violation of section 2.2.

The case of William Ah Chin is still pending.

Cooperating Agencies

On August 16th Lt. Col. Robertson and Capt. Berger of the U. S. Public Health Service visited the park and while here inspected the water system and sanitation facilities. Chief Ranger Fagerlund and I accompanied the above and helped them all we could.

Capt. Berger returned on August 23d and took water samples of the area.

A report will be forth coming from the U. S. Public Health Service.

Miscellaneous

Checking fire equipment, motor patrol, checking Koa plots, and Entomological research.

On August 25th some insects of the family Cerambycidae were found working in some live and dead branches of Aalii (*Dodonae viscosa* var. *spathulata*). They appear to be injurious to the host, and may be new to science.

The infestation occurred about a quarter of a mile below the lookout on the Mauna Loa Truck Trail at an elevation of about 6,400 feet.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger

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

September 3, 1945

MEMORANDUM : For the Superintendent through the Chief Ranger.

SUBJECT : Daily report for the Month of August, 1945.

During the first week of August, Chief Ranger Fagerlund and I made a tour trip, starting from Makaopuhi, to Panau, Naulu, and camped at Kaena. Starting off from Kaenapuu, Puuloa, then to Wahaia, Punaluu, from there to Kalapana.

We started from Kalapana, the third day returning back to Makaopuhi.

This trip were made purposely for photographic work, snapping pictures of Naulu forest, Puuloa rock carving's foot print on Pahoehe and etc.

Returning from Kalapana, I also had horse's prepared for Halape trip, taking Mr. Baldwin, and Mr. Bob Hiatt down to Halape beach, and left them there.

After three week's were up, I made another trip down the beach, hauling thair materials, such as shells, oysters and etc., back to Kipuka Nene.

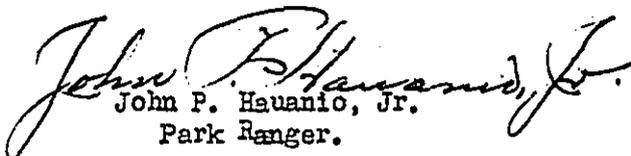
Other jobsswhich were done: Painting signs, repairing saddles, fixing pack boxes.

Prepared horses and saddles for Governor's use.

Goats destroyed-----7
Pigs destroyed-----3

CC - Fagerlund

JPH: mp


John P. Hauanio, Jr.
Park Ranger.

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

HAWAII

August 31, 1945

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

SUBJECT-Report of activities for the month of August 1945, Haleakala
section.

A considerable of my time was spent performing duties at the
checking station. Some time was spent making patrol and inspection
trips to the summit, also cleaning the rest house. Checked and cleaned
fire hazards in and around buildings. The removing of hay on road
alongside the truck garage to the horse corral. 2 pigs and 2 goats were
destroyed on the hill above the paliku shelter.

A. B. Medeiros
Antone B. Medeiros,
Park Ranger.

*Fagerlund GOF.
Notes + returns
Eggs*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
September 4, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of August 1945 is respectfully submitted;

The end of the war did not cause any riots or wild celebrations on Maui. All service personnel were given two hours in which to get back to their posts. The majority of servicemen here are veteran marines of the 4th Division who have been through too much hell to want to get out of bounds. They were ready for the invasion of Japan proper and were very thankful it didn't come off. Maui citizens were pleased with the orderly manner in which the news was received. The few servicemen who were in the park were very orderly--their attitude was simply expressed in the words, "Thank God it's over".

Dr. St. John and assignee Mitchell were not informed of the surrender until several days after it was known. I went in to their camp at Waianapnapa Lake but they were out collecting so I left a note telling them the news. On my next visit I contacted them and told them the rest of the story. Dr. St. John was very happy as he has two sons in the army, one of which is in the Pacific in the 27th Division.

As you may remember I was in the crater with six men of Utility Squadron Three when the war started. When the news of the surrender came I was in the officers' club at Puunene Naval Air Station with the men of the same squadron. We drank a toast and said we started the war together and by golly we ended it together.

An interesting sidelight on this story came to light that day. The Lt. Commander who is "skipper" of the squadron was with the outfit here on Maui as a Chief Aviation Pilot on December 7, 1941. One other man is here that was in the original group that came to Maui in June, 1940.

"Now it can be told" that this is the group that has been so helpful to this section of the park. They are the ones who dropped the food to Mr. Fagerlund and me in Kipahulu Valley and who have been helpful in many other ways throughout the war.

Weather Conditions in the Park.

Maximum Temperature-----70 degrees on the 17th and 28th
Minimum Temperature-----41 degrees on the 10th
Rainfall Total-----3.79 inches
Clear Days-----12
Partly Cloudy Days-----12
Cloudy Days-----7

Labor Situation. Ranger Medeiros was a great help while he was here from the 22nd of July till August 30th. Many little jobs were completed while he was here that no time was found to do before. Medeiros was the first help I have had for a couple of years that could shoe and handle the mules. He spent all of his spare time in cleaning up the place and being generally helpful.

Public Service Contractors. The former Miss Lorna von Tempsky, now Mrs. Jack Sprinkle, took one party of two Honolulu people through the park this month. Mrs. Sprinkle is the guide for the Maui Grand Hotel. Her husband is in the army and is stationed on Maui. He helps her on his day off and hopes to get out of the army soon so they can make regular trips through the park.

Cooperating Governmental Agencies. Colin G. Lennox of the Territorial Forest Service visited the park this month and explained what was to become of the land taken over from Haleakala Ranch for a period of 25 years. This land lies below the park boundary from Puu Nianiau to Koolau Gap. He stated that as soon as it can be arranged this area will be planted to coniferous trees in order to increase the watershed area that supplies the Olinda reservoir.

Some time back I suggested that any planting done close to the park should be of trees that do not spread rapidly such as eucalyptus. Since most conifers do not reproduce at all at this altitude this planting will not endanger the future of the park.

Cooperating Non-Governmental Agencies. Dr. Harold St. John of the Bishop Museum and Professor of Botany at the University of Hawaii, and assignee Mitchell were camped at Waiapanapa Lake east of the crater for two weeks. After completing their plant collecting there they moved to the forest south-east of Kuiki and stayed for one week, collecting there. They are at present located at Holua Cabin working in Koolau Gap.

Dr. St. John has found some very interesting plants in each area but does not wish any advance publicity to be given them until he takes the specimens back to the Museum and compares them with those collected by other botanists. His collection and some of his discoveries will undoubtedly aid in our attempt to add some of these areas to the park.

The tent and all camping equipment used on Kuiki was parachuted by Navy plane to the location chosen for the camp. Dr. St. John and Mitchell located the camp and set up a signal. I accompanied the pilot of the plane that dropped the equipment. We were very lucky in that the only

time the area was clear was on the appointed time for the drop.

Enough material is being collected of each plant to give this section of the park a specimen which will be used here. This will help future park personnel in learning and studying the plants of this area.

Ranger Guide Service. The Park Warden took one group of Waves from Puunene Naval Air Station on a three day trip through the crater this month. There were eight waves in the party.

Birds. The male plovers were seen during the early part of the month in small numbers below the park along the road and by the middle of the month a hundred or more were seen in the crater.

The Apapane have left the area above the Ranger Station as only a few were seen there this month. Several were seen near Mamani Hill in the Crater. They seemed to be feeding on the Mamani flowers.

Four Amakihi were seen at one time in the Mamani tree just outside our kitchen window and a pair have been seen frequently in the Mamani tree near the checking station.

Increase or Decrease in Travel. As expected civilian travel increased sharply as soon as the gasoline ration was lifted. The civilian figure for visitors went over the 1000 mark for the first time since the war started.

Military personnel were restricted to their posts for three days following the surrender of Japan so the figure was somewhat smaller for military visitors.

Visitors. Major General C. B. Cates of the 4th Marine Division spent two nights at Paliku Cabin with the H. F. Rices' this month.

Police Protection. A navy jeep driven by Lt. R. D. Niemeyer of VB-19 stationed at Kahului Naval Air Station and three other men from the same squadron, ran into the rock bank about a fourth mile up the road from the checking station. The driver apparently turned too sharply while coming around a curve and in so doing hit the bank on the opposite side of the road. One man was injured but not seriously. The other three suffered minor cuts and bruises. The statements of the men have not yet been received so the exact details are not known.

Exotic Animal Control. 44 goats and 2 pigs were killed in the park this month.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

September 10, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for August.

Fuming in amounts greater than usual was observed over Mokuaweoweo several times during the month.

Opening of the cracks near the southwest rim of Halemaumau continued in August. One crack opened 27 mm. The movement shows in the ash deposit. Slight opening showed at other places on the rim. No movement was detected along the Chain of Craters Road.

The one perceptible earthquake that was registered during the month occurred on the east slope of Mauna Loa at 11:46 AM, August 9.

Conspicuous north tilt continued during August. This tilt indicates a pressure build up under Kilauea. Easterly tilt was about normal for this season of the year.

The following table shows some of the data obtained during the month:

Weekended	Tilt	Seismic disturbances	Seismicity
Aug. 15	Slight ENE	2	1.50
12	Slight NNW	2	2.25
19	Slight NE	4	1.25
26	Mod. NNE	2	0.50

Work of R. H. Finch

A portion of several days was spent in moving the library from the basement to the library room. Considerable time was spent on seismograph checks. Seismological routine took up most of my time.

Work of G. C. Omer

He assisted in the seismological routine, did some janitor work, tended to the radio time checks and helped in showing visitors through the Observatory. Two days were spent in moving the Kona seismograph. A paper on "Seismic Areas and Secular Magnetic Variations," was prepared and considerable work done on Honolulu Magnetic statistics. He was on leave for 3 days.

R. H. Finch

R. H. Finch
Volcanologist

REF:mp

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., August, 1945

- Aug. 1 - Wed - Prepared this job journal for Supt. Wingate. Prepared specialized versions for Finch and Fagerlund. Prepared a memo to Fagerlund on changes made in our telephone line #14. Had a conference with Jaggar. Worked for two hours on the Park pump with Baldwin and Kim. Finished work at 6 p.m. Made the morning change of the Bosch-Omori seismograph.
- Aug. 2 - Thu - Worked on a big order of magnetic statistics. This is a very trying job of reducing the magnetic data from the Honolulu magnetic observatory to search it for volcanic reactions. This job is one that I hope to finish before I leave here since it will be the foundation stone for any future magnetic work that might be started here at the Volcano Observatory. Made the morning change of the Bosch-Omori seismograph.
- Aug. 3 - Fri - Made the Mauna Loa seismograph trip. More magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- Aug. 4 - Sat - Magnetic statistics all day long. Made the morning change of the Bosch-Omori seismograph.
- Aug. 5 - Sun - carried out all morning routine. Made the Mauna Loa seismograph run. Made the morning change of the Bosch-Omori seismograph.
- Aug. 6 - Mon - worked on the final manuscript of my paper. Made the morning change of the Bosch-Omori seismograph.
- Aug. 7 - Tue - worked on the last draft of my paper. Took traffic count at the Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph.
- Aug. 8 - Wed - Took a Park truck down to Hilo. Picked up my monthly order of groceries. Rewired the Hilo seismograph standard clock (minute contact only -- hour contact defective). Made the morning change of the Bosch-Omori seismograph.
- Aug. 9 - Thu - Made the Mauna Loa seismograph trip. Worked on the final draft of my paper. Made the morning change of the Bosch-Omori seismograph.
- Aug. 10 - Fri - Prepared my paper for transmittal through N.P.S. channels and turned it over to Finch. Worked up talk for Journal Club that evening. Made the Morning change of the Bosch-Omori seismograph.
- Aug. 11 - Sat - Made the Mauna Loa seismograph trip.
- Aug. 12 - Sun - day off
- Aug. 13 - Mon - Drove over to Kona in a Park truck to move the seismograph from the rectory over to the High School. We found that the house wreckers had already been there and that a considerable portion of our seismograph installation had been damaged. Made the morning change of the Bosch-Omori before leaving here.
- Aug. 14 - Tue - Moved all of the equipment into the new cellar. Set up the

Wingate, pg. 2

seismograph upon the piers. Collected all of the damaged equipment and packed it. This material was brought back with us for repair.

- Aug. 15 - Wed - Returned from Kona. Found that this day was declared a holiday.
- Aug. 16 - Thu - Holiday.
- Aug. 17 - Fri - Made the Mauna Loa seismograph trip. Started the repair of the damaged Kona seismograph driving clock.
- Aug. 18 - Sat - Finished the repair of the damaged Kona seismograph driving clock. Repaired and cleaned the damaged Kona standard Howard clock. Made the morning change of the Bosch-Omori seismograph.
- Aug. 19 - Sun - Day off
- Aug. 20 - Mon - on leave
- Aug. 21 - Tue - on leave
- Aug. 22 - Wed - on leave
- Aug. 23 - Thu - Made the Mauna Loa seismograph trip. Drove to Hilo in my own car. Replaced the repaired hour contact on the Hilo seismograph Standard Howard Clock. This returns the complete time markings to the Hilo record. Made the morning change of the Bosch-Omori seismograph.
- Aug. 24 - Fri - Prepared fluid for the Bosch-Omori seismograph. Placed this fluid into operation. Repaired the Mauna Loa seismograph drum. Did a small lathe turning job for Fagerlund. Took a large M.E. young people's tour from Pahala through the seismograph cellar. Made the morning change of the Bosch-Omori seismograph.
- Aug. 25 - Sat - Made the Mauna Loa seismograph trip. Worked on the magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- Aug. 26 - Sun - day off, but did some magnetic statistics anyway.
- Aug. 27 - Mon - Drove to Hilo in my own car. Carried down the seismograph drive and drum assembly for the Eller seismograph. Carried a magnet to the Hilo seismograph cellar and remagnetized the stylé. Checked with Wonder on the repair of the Kona Howard clock pendulum suspension springs.
- Aug. 28 - Thu - Plotted magnetic data on large curve sheets. Did trouble-shooting on the Bosch-Omori time circuit. Found a bad relay. Constructed a mounting and placed a new relay into operation. Made a radio time check of our standard clock. Made the morning change of the Bosch-Omori seismograph.
- Aug. 29 - Wed - Swept out the observatory building. Further plotting of magnetic data on curve sheets. Made the morning change of the Bosch-Omori seismograph.
- Aug. 30 - Further work on the Bosch-Omori time circuit. Replaced batteries and sought the cause of the missing hour marks. Further work on plotting magnetic statistics. Made the morning change of the Bosch-Omori seismograph.

Wingate, pg. 3

Aug. 31 - Fri - Made the Mauna Loa seismograph trip. Cleaned the Howard clock contacts. Further magnetic statistics. Had a long conference with Jagger on this magnetic work. Jagger gave me some additional volcanic data to plot against the magnetic data. Made the morning change of the Bosch-Omori seismograph.

Submitted,

Guy C. Omer, Jr.

Guy C. Omer, Jr.
Sept. 1, 1945

10-28
(May 1929)

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

FILE NO.

MONTHLY REPORT-----July 1945.

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

August 14, 1945

MEMORANDUM for the Director:

There follows the report of activities in Hawaii National Park for the month of July, 1945.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 75° and 46° and at the Haleakala ranger station these recordings were 71° and 41°.

Rainfall at Kilauea totalled 2.04" and at Haleakala 1.81".

Superintendent's Special Activities

The superintendent was on duty at the park headquarters throughout the month except when attending weekly meetings of the Selective Service Board and a few days when he was laid up at home with a cold.

The assistant-to-the superintendent was also on duty at the park headquarters throughout the month. He attended one meeting in Kilauea of the Tractowners Club, made several road patrols, gave 9 lectures in the park and four at the adjacent Y.M.C.A. camp, and directed one group of Senior Girl Scouts on a Ranger Aide project.

Research and Observation

There were no eruptions of any of the Hawaiian volcanoes during the month. Small fume columns were observed over Kakuaveves on the 31st during afternoon sunlight and apparently normal fuming was visible from the 23 to 29th.

The earthquakes of sufficient intensity to be felt were recorded on July 13 and 30. The first occurred along the Puna coast southwest of Kalapana and was plainly felt over the southeastern half of the island. The second occurred under Kilauea and was felt only in the vicinity of the crater. In all 52 seismic disturbances were recorded.

The only measured cracks that showed any appreciable opening were along the southeast rim of Haleakala.

Rather uniform northerly tilt slightly greater than normal prevailed. East-west tilting was toward the west during the first half of the month followed by easterly tilt in an equal amount in the last half.

RECEIVED AS FOLLOWS

-2-

The volcanologist made one trip to the Kona district to find a new location for the seismograph there. The building in which it was housed was to be torn down.

Mr. Baldwin completed through the first draft stage a report on the Kona food habits study, and Chief Ranger Yagerlund devoted some time to a paper he is preparing on exotic plants.

Donations

Dr. Harold St. John, Professor of Botany at the Univ. of Hawaii, and botanist for the B.P. Bishop Museum presented the Haleakala section with a complete set of the occasional papers of the museum on the plants of the islands and other literature of interest on island flora. He also placed the Haleakala section on his mailing list to receive future publications on the island's flora.

Ranger Service

In order to provide some additional assistance for Ranger Hjort at Haleakala and permit him to take some leave Ranger Anderson was ^{sent} over to Maui on the 23rd for a month's duty there. Ranger Hjort had had no vacation since before the war.

A Ranger Aide program for junior Girl Scouts was organized and as far has been proving very satisfactory and other groups have indicated interest. The program consists of instructional activities and work projects. Already some good work of benefit to the park has been done such as brushing out trails and obliterating names, etc., on crater floors.

The Rangers made weekly inspections of fire equipment, made one travel count, painted some new traffic control signs, started construction of a pig trap, supervised removal of goats by the contractor, inspected the Kona preservation plots, gave 21 programmed lectures and guided five conducted tours.

Forest Protection

The contractor removed 175 goats from the Ailausa section of the park and in addition rangers disposed of 43 goats and 4 pigs. At Haleakala 43 goats were disposed of.

Police Protection

The driver of a bus of an unauthorized bus company was arrested on the 31st when it was found he was taking a group of motorists on a park tour. He will be taken before the U. S. Commissioner in Hilo.

Seventeen offenders in two minor cases of violations of the rules and regulations were turned over to the Provost Marshall at Haleakala.

RECEIVED AS FOLLOWS

-3-

Interpretation

A total of 1661 persons attended 35 lectures given during the month of which 8 were given outside of the park. One hundred persons attended 5 conducted tours.

Improvements

Efforts to get the Haleakala observation station cleaned up and repaired were finally successful. The 98th Kaa Bee completely repainted the interior and the outside trim and are painting the interior of the public toilets. The army replaced a door that soldiers had broken a long time ago.

Travel

Operation of the checking station at Haleakala has brought to light some interesting data on park visitors. Sunrise and sunset visitors were about equally distributed but there were 109 civilians and only 6 servicemen to see the sunrise while there were 47 civilians and 58 servicemen who went up to see the sunset. These figures do not include campers in the crater or visitors staying at the old rest house. Largest attendance was on Sunday July 15 when 57 civilians and 334 servicemen visited the park. On the 29th there were 93 civilians and 245 servicemen. It was found that previous estimates of civilian visitors were probably low since it was observed that a considerable number of civilians entered the park in army or navy vehicles. All of these had been missed in previous estimates. The estimates of servicemen visitors appear to have been quite accurate.

At Kilauea there were 30,500 visitors including 10,800 in the armed forces and at Haleakala 3,693 of which 2,867 were in the armed forces.

Visitors

At Haleakala, Major G. A. Bradley, U.S.M.C. former ranger at Grand Canyon National Park and Lt. L.C. Asher, U.S.M.C. former ranger at Yellowstone National Park were visitors. Major General O.B. Cates, commander of the 4th Marine Division was also a Haleakala visitor.

Dr. C. K. Wentworth, geologist with the Honolulu Board of Water Supply spent some time at Kilauea.

Miscellaneous

The 10 PM curfew was finally abolished by order of Lt. Gen. W. G. Richardson on July 7, who a few days earlier had stated that it had not been a military necessity for some time but that he had not had any demands or requests to abolish it. Curfew at one hour or another had been in effect since December 7, 1941.

All volunteer military organizations except the Territorial Guard were disbanded at formal ceremonies on the several islands on July 4.

Lt. Nicholas Peter, U.S.A.A.F., nephew of George Lycurgus, manager of the Kilauea Volcano House, returned home on furlough after 22 bombing missions over Germany as navigator of a Flying Fortress. He had been awarded the Distinguished Flying Cross.

RECEIVED AS FOLLOWS

-4-

Ikua Purdy, 72, famous Hawaiian cowboy died on July 4. At the Cheyenne, Wyoming, rodeo in 1908 he won the title of world champion cowboy. It was he who spoke in Hawaiian over the N.B.C. program at the opening of the Haleakala road.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
c.c. - Files

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

Aug. 3, 1945

MEMORANDUM for the Superintendent:

There follows the monthly report of the Assistant to the Superintendent for July 1945.

Administrative duties performed.

Memoranda and letters were prepared on various subjects at the request of the Superintendent, including an estimate on funds necessary for maintaining the Kalapana Trail, a request that park residents who own dogs keep them tied up at all times, collecting of data for the NPS Who's Who, etc.

A contact was made with Major Eckert re a complaint received from Volcano House on July 28, that negroes had bothered some women by knocking on the cottage door the previous night. Major Eckert arranged to check on presence of negro troops around Volcano House the next night and to have a check made occasionally on the presence of soldiers in the vicinity at night.

Road patrols were made, and empty houses inspected.

Cooperation was given the Canec Co. in obtaining weather data requested by Mr. Atkinson.

A meeting of the Hawaii Natural History Association and of the Toastmasters Club were attended.

Interpretive work

It was necessary to give considerable time to this work on account of the large number of requests for programs received during July.

Mauna Loa movies:	shown	7/6	KMC	50 persons		1 hour.
	"	7/8	Obsy	35 "		1 "
	"	7/20	KMC	55 "		1 "
Bird talks:		7/7	YMCA	48 "		1 "
		7/9	Park	7 "		2 "
		7/11	"	7 "		2 "
		7/11	Obsy	5 "		1 "
		7/18	"	2 "		1 "
		7/25	YMCA	23 "		1 "
		7/25	Obsy	6 "		1 "
Astronomy talk:		7/13	YMCA	40 "		2 "
		7/27	"	40 "		2 "

Camping talk:	7/18	Park	43 persons	2 hours
Work project:	7/16	Keanakakoi	20 "	4 "

Miscellaneous duties

A report on the nene food habits study was completed through the first draft stage.

The telephone operator was given instructions on the park rules and regulations.

It was arranged that the Maui travel report should be submitted directly from the Haleakala section in the future starting this month.

Mr. Horner and the undersigned called on Mrs. Peter Lee to see her bird collection made by Brother Matthias formerly of the Brother's school of Hilo. An Oo, Akialoa, Ou, and Akepa were rare birds present in the mounted exhibit.

Paul H. Baldwin

Paul H. Baldwin,
Assistant to the Superintendent

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

August 9, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for July, 1945.

Administration

Ranger Medeiros was on duty in the Haleakala Section from July 23 through the end of the month.

The Ranger staff had one conference during the month.

Ranger Davis spent a considerable part of his time on making maps of the individual land tracts of the Kalapana extension.

Interpretation

The scheduled interpretive program for July consisted of three weekly illustrated talks on Volcanoes and one on birds.

A Ranger Aide program for Senior Girl Scouts was organized. The following activities were scheduled:

Instructional activities

Orientation talk
Bird Study
Plant Study
Insect Study
Forestry
Astronomy
Camping
National Parks of the United States.

Work activities

Efface writings in Keanakakoi Crater
" " " Kilauea Iki Crater
Clean Napau Crater Trail
Husking tree seeds.

This Ranger Aide program was highly satisfactory. The girls showed much enthusiasm for most of the activities. Evidently other groups have heard about it if requests for similar services are any indication.

Assignee Omer made considerable progress on the seismology exhibit. Further development awaits completion of a carpentry job.

The Hawaii Natural History Association had a very successful meeting at the Observatory and Naturalist Building on July 16. About 50 people attended. Mr. Levi Lyman talked on the 1881 lava flow and the Chief Ranger showed kodaslides of mainland parks.

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

-2-

See statistical report for complete data on interpretive services given.

Research

The Chief Ranger conferred with Dr. C. K. Wentworth on the plan for establishing a system of photographic stations in the park.

Some time was devoted to working on the exotic plant paper.

Travel

With the help of Assignee Omer the rangers made one travel count.

Maintenance

As part of the Ranger Aide program for Senior Girl Scouts the Napau Crater trail was cleaned out.

Protection

Fire equipment was checked weekly. The Chief Ranger studied the Volcano House water line and pumping equipment with Mr. Moriwaki.

Ranger Davis arrested a Transilux operator for violation of Sections 2.31 (b) and 2.35 of the General Rules and Regulations.

The Koa plots were given their regular monthly check.

As part of the Ranger Aide program the Girl Scouts effaced the stone writings in Keanakakoi and Kilauea Iki Craters.

Stop signs were printed on the pavement at entrances into Mamalahoa Highway from Park Headquarters and Volcano House.

Signs warning visitors not to picnic in Bird Park were installed.

Ranger Medeiros spent a considerable part of his time building a pig trap near Puhimau Crater. The trap is not in operation yet.

Ranger Hauanio spent most of his time supervising goat drives. Four drives netted 175 goats. In addition 65 goats were killed. Six pigs were killed.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

RECEIVED AS FOLLOWS

**MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS
Hawaii National Park**

Name of Area

Number of Persons Engaged in Interpretive Activities

	Technical	Administrative	Other	July
Permanent	<u>one</u>	<u>one</u>	<u>one</u>	Month
Temporary				<u>1948</u>
				Year

	No.	Attend.	Duration*	V.P.H.**
CONDUCTED TRIPS				
Auto Caravans	1	25	2 hours	50
Hiking Trips	4	73	4 "	300
Ruins				
*List other types				
Total	5	100	XXXI	350
LECTURES				
Campfire				
Hotel or Lodge <u>Kilauea Military Camp</u>	7	385	1 hour	385
Museum	18	425	1 "	425
Outside of Park	8	851	1 "	851
Special**				
**Includes all other types				
Total	33	1661	XXXI	1661
ATTENDED INTERPRETIVE STATIONS & MUSEUMS				
Name of Station				
Observatory		500	1/2 hour	125
List by name and type				
		500	XXXI	125
UNATTENDED INTERPRETIVE STATIONS				
Name of Station, Nature Trail, etc.				
List by name and type				
			XXXI	

BROADCASTS	
Station	Subject

Total Contacts 2261
 Total V.P.H. 2136
 Total Visitors _____

Name Gunnar O. Fagerlund
 Title Chief Ranger

MAIL ATTENTION NATURALIST DIVISION, NATIONAL PARK SERVICE, WASHINGTON, D. C., IN TIME TO ARRIVE ON OR BEFORE THE TENTH OF THE MONTH FOLLOWING THE ONE REPORTED ON.

* AVERAGE DURATION OF ACTIVITY.

** THIS COLUMN REPRESENTS VISITOR PARTICIPATION HOURS. THE FIGURE IS OBTAINED BY MULTIPLYING THE VISITOR ATTENDANCE BY THE AVERAGE DURATION OF THE CONTACT; I.E., THE AVERAGE TIME DEVOTED TO THE TRIP, LECTURE, MUSEUM VISIT, OR USE OF INTERPRETIVE STATIONS.

*Fogartland
Not a return
didn't make report
for duty?*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui, T. H.
August 2, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of July, 1945 is respectfully submitted;

The checking station installed on the first of the month caused quite a stir on Maui. A few comments were made concerning the extra bother it caused Park visitors. Several people complained but their complaints were soon withdrawn when the purpose of the station was explained to them. The majority of Maui citizens were all for it if it would help keep the Park intact and clean. A few service men resented the restrictions placed on their movements while in the Park but all commanding officers on Maui are behind the move.

General Weather Conditions. Frequent moderate rains in Haleakala Ranch below the Park have relieved the serious situation of a few months ago. The manager reports that the grass is now more abundant than usual for this time of year.

Weather Conditions in the Park.

Maximum Temperature-----71 degrees on the 17th
Minimum Temperature-----41 degrees on the 16th
Rainfall Total-----1.81 inches
Clear Days-----21
Partly Cloudy Days-----8
Cloudy Days-----2

Improvements. A checking gate was put across the road at the Park checking station which serves as an office. The gate is made of three inch iron pipe with a chain across the roadway. A weatherproof telephone is attached to the pipe railing with a sign for people to call on it after 5:00 P.M. and before 8:00 A. M. if they wish to enter the Park.

175 feet on either side of the gate a large "SLOW" is painted on the paved road and 25 feet on either side of the gate there are large "STOP" signs. Another "STOP" sign in green and white is placed on the

entering side together with the regulation Park sign reading "CHECKING STATION, ELEVATION 7037 FT."

Donations. Dr. Harold St. John, Professor of Botany at the University of Hawaii and Botanist for the Bishop Museum, sent this section of the Park all the occasional papers published by the Museum on plants of the Islands together with all other literature of interest on Island flora. He also placed this section on his mailing list so we will receive all future papers published on the flora of the Islands. This rounds out our library on plants to the point where it is quite complete. I accepted the donation for the Park and expressed my thanks on behalf of the Park to him.

Guide Service. The Park Warden, Catherine R. Hjort, started taking groups of Waves from the two Naval Air Stations on Maui into the Crater on three day trips. The first group went in on the 23rd and came out on the 25th. All the girls were pleased with the trip and expressed their desire to go another time in the future. One or two such trips a month are scheduled.

The Mauna Loa 1942 eruption pictures were shown to the Naval Combat Demolition Base at Kamaole. 612 men were present.

Travel. With the opening of the checking station a number of interesting items were brought to light with respect to Park visitors.

47 civilians, 58 servicemen stayed to see the sunset. 109 civilians, 6 servicemen came up for sunrise. These figures do not include those who spent the night in the Crater or at the Old Rest House.

The largest attendance for any single day was on Sunday, the 15th, when 57 civilians and 354 servicemen visited the Park. On Sunday, the 29th, 93 civilians visited but only 245 servicemen were present.

It seems that we have been underestimating the number of civilian visitors. Quite a few civilians ride up in military vehicles--all of these were missed in previous estimates. Our military visitor estimate was fairly accurate, even though this month's figures are not as large as last month's. No large convoys came up this month while a dozen or so came up last month.

Visitors. Major G. A. Bradley, U.S.M.C. visited the Park on the 26th. Major Bradley was a former National Park Ranger in Grand Canyon National Park and in one of the Southwestern National Monuments.

Lt. L. O. Asher, U. S.M.C. who was a former Park Ranger in Yellowstone National Park in 1942 visited this section of the Park on July 16th.

Major General C. B. Cates, Commanding General of the famous Fourth Marine Division, visited the Park on the 24th.

Police Protection. Wallace F. Price MM 1/c of the 98th Sea Bees was turned over to the Provost Marshal of the Fourth Division Marines for bringing his dog to the Old Rest House against regulations.

Second Lt. Thomas B. Frielink, U.S.M.C. was also turned over to the Provost Marshal for driving his jeep into the Army restricted area.

The outcome of the above cases has not been learned.

Exotic Animal Control. 46 goats were killed in the Park this month.

Signs. The old sign "Trail to Rest House $\frac{1}{2}$ Mile" was removed and replaced by one simply reading "Siverswords" with an arrow pointing up the trail. The former sign was somewhat misleading in that people thought it was $\frac{1}{2}$ mile to the trail that would eventually lead them to the Rest House. This structure is so well known in the Territory as the Old Rest House that any future sign should be so worded.

All the "No Motorcycles Allowed On Trails" signs were eliminated also as they were almost illegible and of no further use since each visitor is required to have with him a set of rules which state that no vehicle is allowed off the paved portion of the road.

The Halemau-u and Sliding Sands Trail entrance signs stating that it was necessary to have a permit if one entered the Crater with the intent to use the shelter houses were also removed as it is no longer possible to hike without a permit.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

July 31 - 1945.
Memorandum For the Superintendent,
Through the Chief Ranger.

Subject - Report of activities for the month
of July 1945.

At the volcanic section, one travel count
was performed, and also 2 pig controls.
A pig trap was built at the Puhiman
area, using hog wire and wooden
posts. The horse corral at the 6 tanks
section was taken down and installed
at the first cattle guard on the Mauna
Loa road.

Stop signs were painted on
the intersections of the Volcano house
and at the park headquarters.
Some signs were installed around
the bird park area.

From July 23, 1945 through
July 31 - 1945, performed duties
at the Haleakala section, Maui.
Time was spent at the checking
station, some patrols and inspection
trips were made to the summit.

on July 26-1945, I met a former
employee with the park service,
Name - Major G. A. Braddy,
Former Ranger, Canyon De Chelly,
N. Arizona, South western
monument, Grand canyon.

A. B. Medeiros
Ranger in Charge
Haleakala.

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

August 3, 1945

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

SUBJECT: Daily report for the month of July.

For the first week of the month, Ranger Medeiros and I spent 3 days working on the horse corral at Kipuka Ki, which we had taken off from 6 tanks. Corral was put up to separate horses.

Most of my time was spent on goat drives at the Mauna Loa area, apua, pepeiao and Hilina Pali. Drives were made by Roger James. Returning from one goat drive on the 12th of the month, I took two visitors out for goat hunting, covering Kipuka Ahu area. We shot three goats there and one at Kipuka Nene. They said they really appreciated that trip and sure enjoyed it.

During the month of July, 5 goat drives were made. Working on saddles, shoeing horses before any trip we made, also repainting sign's which were needed, installing chains and locks on Bird park and Mauna Loa gates, were also attended to. Travel court & pig control were also taken care of.

Goats and pigs destroyed during the month of July were 57 goats and 3 pigs.

John Hanania, Jr.
John Hanania, Jr.
Park Ranger.

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

HAWAII

August 2, 1945

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

SUBJECT: Monthly Narrative report for July, 1945.

Public Contacts

Interpretive work carried on during the month was as follows:

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hours</u>
Observatory	7/1/45	30	1
K.M.C.	7/3/45	45	45 min.
K.M.C.	7/10/45	40	45 "
K.M.C.	7/17/45	50	30 "
K.M.C.	7/24/45	50	45 "
Observatory	7/29/45	14	1 hr.
K.M.C.	7/31/45	100	45 min.
Plant propagation talk @ park Nursery	7/14/45	18	1½ hr.
Insect talk to G.S. @ Y.M.C.A.	7/16/45	18	1 hr.
Insect talk to G.S. @ Y.M.C.A.	7/17/45	20	1 hr.

Mapping of individual tracts of land in the Kalapana Extension

This work has commenced and is about 5% complete. These sketches will be attached to the N.P.S.L-3 forms and will be forwarded to the Regional Office within the next two weeks.

Park Nursery

Good progress was made in the germination of rare tree seeds this month. Most of the seedlings are responding very well to a mixture of 50% coarse white sea sand and 50% compost material obtained at the C.C.C. Camp.

Due to the long dry spell, it was necessary to check the Nursery frequently.

A trip was made to the Board of Agriculture and Forestry for some coarse white sea sand, and also to the C.C.C. Camp for compost material.

Chief Ranger Fagerlund and I visited the Hibiscadelphus on the Shipman property on July 13th and observed that it was heavily infested with thrips (*Heliothrips haemorrhoidalis* Bouche). There was considerable thrip damage to the foliage.

On July 20th Dr. Holdaway, Entomologist at the University of Hawaii and the undersigned revisited the tree and dusted it with 4% rotenone. An insect count was made on twelve leaves prior to the dusting. The count was as follows:

Leaf No. 1-----23 thrips	Leaf No. 7-----3 thrips
" " 2-----11 "	" " 8-----13 "
" " 3-----17 "	" " 9-----4 "
" " 4-----5 "	" " 10-----7 "
" " 5-----10 "	" " 11-----5 "
" " 6-----10 "	" " 12-----0 "

On July 23rd another trip was made to observe results of the dusting. Twelve leaves were examined with results as follows:

Leaf No. 1-----4 thrips	Leaf No. 7-----0 thrips
" " 2-----0 "	" " 8-----0 "
" " 3-----0 "	" " 9-----0 "
" " 4-----0 "	" " 10-----0 "
" " 5-----0 "	" " 11-----0 "
" " 6-----0 "	" " 12-----0 "

With the exception of four thrips the entire population had disappeared.

Since this *Hibiscadelphus* is endemic to Bird Park, and the only species left in the world attempts to air layer it will be made when the plant is more vigorous for the purpose of reestablishing it at Bird Park.

A large Koa tree growing in the vicinity of the *Hibiscadelphus* was measured, and was found to have a D.B.H. of 26 feet six inches. It is believed that this is the largest tree in the territory.

Trail Cleaning Activities

On the 26th of July, 30 girl scouts were taken down to the Napau-Lava Tree trail. Under the direction of the undersigned, the trail was cleared of staghorn fern and overhanging tree fern fronds. The trail is now in good condition. The girls apparently enjoyed their assignment.

Miscellaneous

Checking fire equipment, motor patrol and Entomological Research.

On the 31st of July a Transilux operator was apprehended for violating Sections 2.31 (b) and 2.35 of the General Rules and Regulations of the National Park Service. His case is pending.

Some time was spent with Dr. Holdaway, Entomologist of the University of Hawaii discussing insect problems. He had many fine suggestions to offer.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Park Ranger

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., Month of July, 1945

July 1 - Sun - Day off

July 2 - Mon - Took a radio time check of our master clock. Prepared this job journal for Supt. Wingate with specialized versions for Mr. Finch and Mr. Fagerlund. Took Traffic Count at Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph.

July 3 - Tue - Started the design of a viewing cabinet for the seismology display table for Fagerlund. Took traffic count at the Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph

July 4 - Wed - Made the Mauna Loa seismograph trip. Changed the Bosch-Omori seismograph. This day was presumably a holiday.

July 5 - Thu - Took a light truck down to Hilo. Picked up shipment of seismograph paper from the docks. Picked up my monthly order of groceries. Picked up the Wentworths with their baggage. Stopped at Hilo Iron Works with Dr. Wentworth as a consultant and made a list of their stock and prices for replenishing our machine shop.

July 6 - Fri - Made the Mauna Loa seismograph trip. Searched thru telephone catalogs for some replacement parts. Made the first draft of the drawing for the exhibit case for Fagerlund. Prepared food requisition for Kim. Made both morning and evening changes of the Bosch-Omori seismograph.

July 7 - Sat - Carried out all H.V.O. routine, all seismographs, weather, etc. Prepared new lot of fixing fluid for the Bosch-Omori cellar. Checked the H.V.O. time marking circuits for trouble -- found the trouble and cleared it. Started the final drawing of the exhibit cabinet for Fagerlund. Made both morning and evening changes of the Bosch-Omori seismograph.

July 8 - Sun - Carried out all H.V.O. routine, all seismographs, weather, etc. Made the Mauna Loa seismograph trip.

July 9 - Mon - Worked with Dr. Wentworth in our machine shop. The lathe was further adjusted. Now, after the work of two men, I believe that all bad alignments in our 9" lathe are corrected. Worked on the drawings of the exhibit cabinet & finished them for Fagerlund. Made the morning change of the Bosch-Omori seismograph.

July 10 - Tue - Prepared two memorandums for Fagerlund -- 1. Drawing and memo about the exhibit cabinet -- 2. Further material needed to construct the seismology exhibit. Made a radio time check of our standard clock. Started to trace a map of central Japan for a H.V.O. paper. Made the morning change of the Bosch-Omori seismograph.

July 11 - Wed - Worked on the map tracing. Worked on some magnetic statistics for the H.V.O. until 6:15 p.m. Made the morning change of the Bosch-Omori seismograph.

- July 12 - Thu - Carried out all the H.V.O. routine, all seismographs, weather, etc. since Mr. Finch was in Hilo on business. Made the Mauna Loa seismograph trip. Worked on telephone line #14 searching for trouble along with the K.M.C. telephone man (this line runs from K.M.C. to the C.C.C. camp by way of the Park switchboard). Made both morning and evening changes of the Bosch-Omori seismograph.
- July 13 - Fri - Worked on map tracing. worked on the Magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- July 14 - Sat - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- July 15 - Sun - Day off.
- July 16 - Mon - Made the Mauna Loa seismograph trip. worked on tracing. Worked on magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- July 17 - Tue - Finished the map tracing. worked on Magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- July 18 - Wed - Worked on the statistics. Made the morning change of the Bosch-Omori seismograph. went home sick in afternoon.
- July 19 - Thu - Home sick in bed
- July 20 - Fri - Prepared a new lot of fixing fluid for the Bosch-Omori cellar. Made a radio time check of our standard clock. Worked on magnetic statistics. Repaired the oven on electric stove, Quarters #20 (bad thermostat contacts). Made the morning change of the Bosch-Omori seismograph.
- July 21 - Sat - Serviced Car #35 for the Sunday Mauna Loa trip. Helped repair the brakes of this car. Consulted with the K.M.C. telephone man about our telephone line #14. Worked on magnetic statistics. Made the morning change of the Bosch-Omori seismograph.
- July 22 - Sun - Carried out all morning routine, all seismographs, weather, etc. Made the Mauna Loa seismograph trip.
- July 23 - Mon - Carried out all H.V.O. routine, all seismographs, fixed records, prepared Mauna Loa drum, weather, wound clock, changed thermograph and barometer. This was presumably my day off to compensate for Sunday and July 4th time.
- July 24 - Tue - Repaired refrigerator in Quarters #20 (replaced V-belt). Replaced batteries in Park telephone switchboard. Began to write the first draft of a paper from H.V.O. on magnetic work. Made the morning change of the Bosch-Omori seismograph.
- July 25 - Wed - Worked on first draft of the paper. Made the morning change of the Bosch-Omori seismograph.
- July 26 - Thu - Made the Mauna Loa seismograph trip. Completed the first draft of the paper and went over it critically with Dr. Wentworth. Made the morning change of the Bosch-Omori seismograph.
- July 27 - Fri - Took a light truck down to Hilo. Checked the deteriorating case of the Hilo clock. Checked and found the difficulties in the Hilo time marking circuits. This trouble will have to be cleared up

later as it will required considerable rebuilding and rewiring and I was not equipped at that time for a major overhaul job. Also carried Wentworth down to his plane on that same trip. Went over my paper with Finch critically and started the second draft. Made the morning change of the Bosch-Omori seismograph.

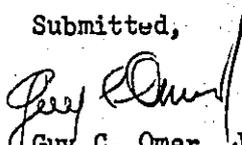
July 28 - Sat - Made the Mauna Loa seismograph trip. Worked on the second draft of my paper. Made the morning change of the Bosch-Omori seismograph.

July 29 - Sun - Presumably my day off, but worked on the second draft of my paper.

July 30 - Mon - Did some photographic printing for the Observatory. Made a radio time check of our standard clock. Prepared a new lot of fixing fluid for the Bosch-Omori cellar. Carried over a new supply of seismograph paper to the Bosch-Omori cellar. Worked on the second draft of my paper. Made the morning change of the Bosch-Omori seismograph.

July 31 - Tue - Swept out the Observatory building. Waxed the ferrotype plate and dried another small lot of prints. Finished the second draft of my paper. Gave one copy to Dr. Jaggard for his criticism. Gave the other copy to Finch for his check. Started some more magnetic statistics. Worked on Telephone Line #14 all afternoon with quite a large army crew. This line was put into satisfactory condition both from the Park's view point and from that of the Army. Made the morning change of the Bosch-Omori seismograph.

Submitted,


Guy C. Omer, Jr.
August 1, 1945

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

August 9, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for July.

Small fume columns were visible in afternoon sunlight over Mokuaweoweo on July 31. About the usual fuming was observed from the rim of Mokuaweoweo from July 23-29.

The only measured cracks that showed any appreciable opening were along the SW rim of Halemauau.

Perceptible earthquakes were recorded as follows: July 13, 3:15 am and July 30, 6:14 am. The former shake occurred along the Puna coast SW of Kalapana. It was widely felt over the southeastern half of the island. The latter shake occurred under Kilauea and was felt only in the vicinity of the crater.

Rather uniform northerly tilt slightly greater than normal prevailed in July. There was a slight westerly tilt during the first half of the month and about an equal amount of easterly tilting during the latter half.

The following table shows some of the data obtained during the month:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
July 1	Slight NE	8	4.75
" 8	" WNW	6	2.50
" 15	" N	5	4.25
" 22	" NNE	5	1.50
" 29	" NW	8	2.75

Work of R. H. Finch

One day was spent on a trip to Kona to find a new location for the seismograph. One day was spent in Hilo and on the saddle road. The manuscript for the Volcano Letter was completed and sent to publisher. Seismological routine took up most of my time.

Work of G. C. Omer

He assisted in the seismological routine, did some janitor work in Observatory, and attended to the radio time checks. He spent some time with Dr. C. K. Wentworth who spent 3 weeks in the Park and made magnetic studies as time permitted.

R. H. Finch

R. H. Finch
Volcanologist.

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT JUNE, 1945

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.

ARNO B. CAMMERER,
Director,

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

July 19, 1945

File 477

MEMORANDUM for the Director:

There follows the report of activities in Hawaii National Park for the month of June 1945:

Introduction

The severe drought in the eastern and southeastern sections of Hawaii island reported last month continued until about the middle of June when general light rains brought it to an end, though it is still necessary to keep the Hilina Pali section of the park closed to visitors. There were additional grass fires in Puna, Waiakea plantation lost about 81 acres of sugar cane from fires, some 310 acres forest and grass were burned on the lower Mauna Kea slopes, and a small grass fire occurred in the park on June 10.

Increasing vandalism and other problems at Haleakala necessitated the superintendent calling Ranger Hjort to headquarters for conference. Park personnel at Haleakala are insufficient to handle the work and as a temporary measure in order to provide some assistance, C.P.S. assignee Mitchell was sent over until some permanent help could be provided. The staff at Kilauea is so inadequate that no regular employees can be spared for transfer to Haleakala despite the urgent need for more help there.

Present use of both sections of the park is as heavy and more intensive, due to the presence of scores of thousands of armed forces personnel, as at any time before the war, but to meet this problem and carry on all other work, we have a total of only 16 employees in all categories. The fact is we are failing miserably in what is a great opportunity to give these service visitors an even reasonable appreciation of this park, or derive full benefit of the opportunity afforded them by their brief rest periods in the islands. The absurdity of this situation is shown by the keen interest taken by the army in maintaining and operating the 40 acre Kilauea Military Camp. There, a staff of around 100 officers and men, together with Red Cross workers, employed hostesses, and over 100 war prisoners engaged in maintenance, etc., are employed in seeing that the men sent over for vacation get as much benefit from them as possible. An entire new water supply system is being installed at the camp by a large crew from the U. S. Engineers. The cost of operating this camp must run to around \$250,000 a year and much larger sums are being spent for physical improvements. The Service that is charged with providing the means for enjoyment of the park and interpreting it has available a staff of 16 employees and funds amounting to about \$50,000 annually.

RECEIVED AS FOLLOWS

(2)

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 51° and at the Haleakala Ranger station these recordings were 73° and 39°.

Rainfall at Kilauea totalled 6.74" and at Haleakala 0.81". Winds of from 40 to 50 m.p.h. blew at Haleakala for 5 days beginning on the 3rd.

There was light fog at Kilauea on the 3rd and 8th.

Superintendents Special Activities

The superintendent was at headquarters throughout the month. He attended the regular weekly Selective Service Board meetings at Olaa and the regular monthly Board of Directors meetings of the Y.M.C.A. and B.S.A. in Hilo. He gave special attention to Mr. Frank Fenton, Director of Organization, A.F. of L and party on the 17. He made routine and special inspections in the headquarters area. He conferred with Ranger Hjort, Chief Ranger Fagerlund, Asst. to the Supt., Baldwin and Chief Clerk Kim on Haleakala matters on the 8th.

Personnel

Miss Marjorie Pestano entered on duty as Asst. Clerk-Telephone Operator on the 20th. She is a granddaughter of Laborer John Pai Hauanio.

Miss Valda Milne left on the 14th to accept a permanent job with the Hilo Iron Works. She was a war service appointee and served as secretary to the superintendent and was in general "girl of all work." She was an excellent employee and her absence is being keenly felt. Steps had been previously taken to fill this important vacancy by transfer of an experienced mainland applicant but travel conditions may prevent her reporting for duty for quite a time. Meanwhile all letters, reports, etc., must be written long hand or typed by the employee preparing them causing additional loss of time.

Research and Observation

Except for steam and fume the volcanoes were not visibly active during the month. Only two earthquakes strong enough to be felt locally were recorded. They were apparently under the lower southwest Kilauea Fift. Forty one seismic disturbances were recorded on the Mauna Loa seismograph and 19 at Kilauea. One crack near the SW rim of Halemauau opened 1 c.m. Others measured were either stationary or showed only slight openings. Tilting of the ground was normal to the NNE for this season of the year.

Using data gathered over a period of two months by the assistant clerk, the assistant to the superintendent made an analysis of questions asked by visitors applying for information at park headquarters. This analysis should be very helpful in dealing with the public as it shows the hours in the day when there is greatest need for an employee to be in attendance at the information office and the nature of the information requested in order of frequency of the request. Requests for the Circular of Information were most frequent and interestingly, request for information about Mauna Loa were second while those for information about Kilauea were much lower down in the list.

RECEIVED AS FOLLOWS

(3)

Ranger Hjort reports that for some unknown reason the apapane are in the area between the ranger station and the summit in great numbers even going as high as 9,000 feet. He has seen over 100 of these birds in this area where in previous years he observed only 5 or 6. He also reports that a native owl has apparently taken up residence in the park. These birds are not often seen at so high an elevation.

Nursery work on rare native plants and trees was continued by Ranger Davis and assignee Hitchell.

Ranger Service

The rangers spent one day making a travel count, rearranged traffic signs on the Mamalahoa Highway and installed some additional signs, gave three illustrated lectures in the park and two at the U.S.O. in Hilo, made the quarterly fire and sanitation inspection and the annual fire hazard inspection, directed goat removal operations, inspected the fenced koa areas, broke in new mules received by transfer from the army, installed traffic and informational signs, directed one fire drill and checked fire equipment weekly and resupplied two caches with fire tools.

Fire Protection

On June 10, a small grass and brush fire burned about 0.4 acre on the steam flats just west of the Volcano House. It was suppressed by volunteer workers, a crew from the Kilauea Military Camp and all available park employees. Its occurrence near a frequently travelled road made its early detection and suppression possible.

One fire drill for the Volcano House employees was held during the month. Attendance was excellent.

Forest Protection

The contractor at Kilauea made 2 goat drives during the month that netted 82 goats. In addition 32 others and 14 pigs were disposed of by rangers.

At Haleakala 76 goats and 1 pig were disposed of.

Interpretation

A limited interpretation program consisting of 4, conducted trips with 135 persons in attendance and 22 lectures with attendance of 1,496 was carried on. Lack of personnel severely handicaps this work. Three hundred persons visited the Observatory and Naturalist building.

Accidents

A traffic accident involving a civilian canopy truck and an army bus occurred at the intersection of the approach road east of the headquarters building and the Mamalahoa Highway. Ranger Medeiros investigated and reported. The army is adjusting a claim presented by the civilian driver. No one was injured.

Police Protection

At Haleakala, William B. Seay, A.O.M. 3/c of VC-72, Naval Air Station, Puunene, Maui, was found guilty of having a silversword plant in his possession and the court deprived him of all liberties while in Maui and during his next operation plus 50 hour extra duty.

T.A. First, s/1 U.S.N., driver of a navy truck was turned over to the Shore Patrol on the 21st when he crowded the park coupe-pickup off the road. The disposition of this case has not been learned. There were no damages done to the cars.

Travel

There were 22,700 visitors to the Kilauea section including 10,310 in the armed forces. At Haleakala there were 4,435 visitors including 4,210 in the armed forces. Four hundred and seventy two camper days were reported from Haleakala.

Visitors

Mr. Frank Fenton, Director of Organization, A.F. of Labor, and party on the 17th.

Lt. Max Luft, U.S.N., formerly of Region IV office, on the 17th.

Dr. F.G. Holdaway, Entomologist at the Univ. of Hawaii, was a guest for some time at the Volcano House. He was given special attention by Ranger Davis.

Mrs. H.K. Bishop, Public Roads Administration, and party called on the superintendent early in the month while on an inspection of highways on the island of Hawaii.

Miscellaneous

Former ranger, Thompson Kauhi was last reported in Germany and had been promoted to the rank of sergeant. He had been inducted into the army only last fall.

The Office of Civilian Defense called in by June 30 all gas masks previously issued to civilians.

The value of "A" gasoline coupons was raised to 3 gallons from 2½ by the O.P.A. June 1.

The limits of off shore fishing areas were extended by the Office^{of} Internal Security, in a move to increase the tonnage of fish caught.

On June 13, the Hilo Tribune Herald, stated that surveys by large airplane companies indicated post-war travel to Hawaii would reach 100,000 persons yearly. Pre-war tourist travel was about 35,000 a year.

(5)

A hearing on the local food shortage situation was held in Hilo by Acting Governor Corbett on the 10th. Some relief was obtained through shipments received on the 24th.

The local shortage of housing and building materials was clearly demonstrated by the keen bidding for the four cottages in the park that were sold on bids opened on June 14. Over 50 inquiries concerning the sale were made and a total of 25 bids actually opened. The successful bidder paid \$5,249 for the four houses. These buildings were all over 25 years old and none of them were of more than second rate construction. The contract requires that the buildings be torn down and removed from the park and the sites restored within 90 days.

Edward G. Wingate
Superintendent.

Orig. & 5 c's - Director
2 c's - Regional Director
c.c. - Files

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

June 30, 1945

MEMORANDUM for the Superintendent:

There follows the monthly report for June 1945 for the Assistant to the Superintendent.

Administrative Work

The main administrative project undertaken in June was the rehabilitation of the map and plan file. This called for processing and indexing 55 maps and plans not previously in the file and the repair of 12 already filed. A new card catalog was made greatly facilitating use of the map and plan file. About 300 cards were typed for this. The cards are filed according to the official number of the map or plan, thus making it possible to quickly locate a plan when only its number is known. The old style loose-leaf folder index was retained for subject headings, as it was found that in looking for plan titles it was easier to run the eye down a page than to turn over a large number of cards individually.

Another project completed was the analysis of questions asked by visitors who apply for information at the park headquarters. Data for this was gathered by Miss Nekonishi, who recorded all questions over a two months period. Several recommendations were made in a special report for the Superintendent on June 8 as a result of the analysis.

Many administrative matters were given attention daily including: Helped Medeiros with goat drive arrangements and planning, handled complaint to army about bombing near Kāone, made arrangements with CCC camp boss about garbage disposal, attended ranger meeting, renewed microscope loan from University, prepared memo for Chief Ranger about Girl Scout Ranger Aide Program, prepared material for Natural History Association meeting which was later postponed, assisted with phone maintenance arrangements, assisted Davis with lands study, reviewed car driver slips, prepared monthly travel reports for May, obtained information for Capt. Hazel regarding road specifications in the park, arranged cooperation of USEngineers in filling our trucks with gravel when they have power shovel at Halemaumau pit, participated in conferences with Hjort about Maui problems, assisted in making arrangements for improved janitor work at Obsy-Natlst building, tended to several matters relative to calling^{ing} gas masks for OCD, conferrrd with the Superintendent regarding park regulations, advised the Chief Ranger concerning desirability of permanent photographic stations for bird observation, and conferred with Chief Ranger and Superintendent regarding permits for scientific collecting.

Protective Work

Fought the grass fire in Steaming Flats on June 10.

Inspected Mamalahoa Highway in the Supper Banks and Administrative areas with the Superintendent and the Chief Ranger in order to remove accident hazards. Prepared memoranda regarding this.

Patrolled all park roads once during the month.

Was "On Call" status June 3-9.

Interpretive Work

Bird talks were given at the Observatory on June 20 and 27 to 7 and 16 persons respectively.

Mauna Loa movies and lecture delivered at Observatory on June 25 to 25 persons and at KMC on June 29 to 50 persons.

Talked with the new telephone operator regarding questions asked by visitors.

Gave nature hike program to 90 boys at Kapoho Scout Camp June 19.

Orientation lecture given to 15 men at park office (15 min) and a number of informal talks were had with individuals concerning the park features.

Prepared legends for colored bird plates to come out in Paradise of the Pacific, Christmas Issue, 1945.

Arranged interpretive program for "Y" camp with Cecil Bernard.

Prepared correspondence concerning Midway reports, wrote note for ELEPAIO jointly with H.I. Fisher on Midway trip, prepared and submitted lengthy report for Director, NPS, on Midway trip.

Made one bird count at 500 ft., Mauna Loa.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent.

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

July 10, 1945

MEMORANDUM for the Superintendent:

SUBJECT: Chief Ranger's Narrative Report for June, 1945.

Administration.

The ranger staff met on the first and third Saturdays of the month to discuss problems relative to its work. This will be a regular procedure.

Ranger Davis completed about 80% of the work on the N.P.S. L-3 forms. This work has consumed a considerable part of his time.

Interpretation.

3-1 // The scheduled interpretive program for June consisted of three illustrated talks on Volcanoes and one on birds.

The Chief Ranger gave two programs at the USO in Hilo. Mr. Baldwin conducted a nature hike for 90 boy scouts at Kapoho Scout Camp.

Assignee Omer commenced preparation of a seismograph exhibit.

Dr. Jagger's book "Volcanoes Declare War" came off the press early in the month. The Hawaii Natural History Association received a supply and has the book on display at Park Headquarters, Observatory Building Lobby, and at the Volcano House.

See statistical report for complete data on interpretive services given.

Research.

The Chief Ranger conferred with Dr. Jagger and Mr. Finch on the plan for setting up photographic stations.

Ranger Davis continued his experimental work on tree propagation.

Travel.

The ranger division spent one man day on travel count.

Maintenance.

Some time was devoted to repairing fences on Mauna Loa.

Protection.

Ranger Davis made the Quarterly fire and sanitation inspection and helped the Chief Ranger with the annual fire hazard inspection.

Fire equipment was checked every Saturday.

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HAWAII

(2)

One fire drill was conducted for the Volcano House employees. Fire tool caches were checked, and the caches at Kipuka Nene and Makaopuhi Crater were resupplied with tools.

"On call" duty was operative during the month. In addition to the one ranger on duty each week end two other members of the staff having fire protection training are "on cal."

Fire P → A fire of about 0.4 acres occurred near Steaming Bluff on June 10. A report was prepared.

Accidents A traffic accident involving an army bus and a civilian car occurred at the intersection of the approach road back of Park Headquarters and Mamalahoa Highway. Ranger Medeiros investigated and prepared a report. Subsequently the highway between this intersection and Sulfur Bank was inspected by the Superintendent, Ass't. to the Superintendent, and Chief Ranger.

"Slow" signs were installed at both approaches to the grade between Volcano House and Sulfur bank and the "25 miles per hour" signs were moved to more effective locations. Kilauea Military Camp installed "Bicyclists Keep to the Right," signs at both approaches to the above mentioned grade.

A few other signs were installed on Mamalahoa Highway.

The Koa Plots were given their regular monthly inspection.

Two goat drives netted 82 goats. In addition 22 goats were killed and 14 pigs were killed.

Rangers Medeiros and Hauanio spent 3 days transporting wire and posts to Kaone with which to build a goat control fence.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

Files

MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS

Hawaii National Park

Name of Area

Number of Persons Engaged in Interpretive Activities

Permanent Technical Administrative Other
 Temporary One One One

June
 Month
1945
 Year

CONDUCTED TRIPS		No.	Attend.	Duration*	V.P.H.**
Auto Caravans		1	30	2 hours	60
Hiking Trips		3	105	3 1/2 hours	367
Ruins					
*List other types					
Total		4	135	XXX	427
LECTURES					
Campfire					
Hotel or Lodge Kilauea Military Camp		7	355	1 hour	355
Museum		8	243	1 hour	243
Outside of Park		4	133	1 hour	133
Special**		3	765	1/4 hour	382
**Includes all other types					
Total		22	1496	XXX	1113
ATTENDED INTERPRETIVE STATIONS & MUSEUMS					
Name of Station					
Observatory			300	1/4 hour	75
List by name and type			300	XXX	75
UNATTENDED INTERPRETIVE STATIONS					
Name of Station, Nature Trail, etc.					
List by name and type				XXX	

BROADCASTS	
Station	Subject

Total Contacts 1931
 Total V.P.H. 1615
 Total Visitors _____

Name Gunnar O. Fagerlund
 Title Chief Ranger

MAIL ATTENTION NATURALIST DIVISION, NATIONAL PARK SERVICE, WASHINGTON, D. C., IN TIME TO ARRIVE ON OR BEFORE THE TENTH OF THE MONTH FOLLOWING THE ONE REPORTED ON.
 * AVERAGE DURATION OF ACTIVITY.
 ** THIS COLUMN REPRESENTS VISITOR PARTICIPATION HOURS. THE FIGURE IS OBTAINED BY MULTIPLYING THE VISITOR ATTENDANCE BY THE AVERAGE DURATION OF THE CONTACT; I.E., THE AVERAGE TIME DEVOTED TO THE TRIP, LECTURE, MUSEUM VISIT, OR USE OF INTERPRETIVE STATIONS.

Baldwin
Organism
Part & return
60 F.
E. W.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui, T. H.
July 2, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of June, 1945 is respectfully submitted;

Park Weather Data.

Maximum Temperature-----73 degrees on the 24th
Minimum Temperature-----39 degrees on the 30th
Rainfall Total-----0.81 inches
Clear Days-----24
Partly Cloudy Days-----6
Cloudy Days-----0

Winds of forty miles per hour were recorded at the Ranger Station from the third to the eighth. These winds reached a velocity of fifty miles per hour at the Summit.

Labor Situation. The arrival of assignee A. L. Mitchell to this section of the Park has relieved the labor shortage to a great extent.

Insect Control. Douglas Worcester, Territorial Entomologist, and a Lt. Wood, U.S.N. attached to the Fourth Marines doing insect control work, inspected a silversword in bloom, at my request. They report that nearly all the seed of this particular plant will be ruined by insects. They are going to try spraying another plant to see if the seeds can be saved.

It has been my observation that when only a few plants bloom in the Crater that the insects destroy nearly all the seeds but when several hundred bloom many of the plants are untouched by insects and the seeds are fertile.

Birds. For some unknown reason the Apapane have been seen all over the slope between the Ranger Station and the Summit. They have been seen as high up as 9,000 feet. In all the five years I have been here I do not believe I have seen more than five or six Apapane in this section. More than one hundred of these birds have been seen in this area in the last two months. They are eating nectar from the Mamani blossoms.

An owl has evidently taken up residence in this same area. He is seen almost every day. Owls have been seen frequently in the pasture below the Park but none have come up this high.

Increase or Decrease in Travel. Civilian travel figures were off 100 this month as compared to June, 1944.

Military visitors increased slightly over June, 1944.

Public Camps. 37 civilian camper days were recorded this month.

435 military camper days were also recorded.

The Old Rest House is again in use. Groups of servicemen have been staying overnight there and seeing the sunrise. Mostly Marines and Sea Bees have used the building so far. Several groups of Marines have hiked through the Crater.

For about two weeks this month all the shelter houses in the Crater were occupied at the same time, by parties of civilians and servicemen.

Police Protection. William B. Seay, A.O.M. 3/c of VC-72, Naval Air Station, Puunene was found guilty on charges of having a silversword in his possession. For punishment he lost all his liberties while on Maui and during his next operation, plus 50 hours extra duty.

T. A. First, S/1 U.S.N., driver of a Navy truck was turned over to the Shore Patrol by the Park Warden on the 21st when he crowded the coupe-pickup driven by the Warden off the Park Road. His case has not been brought up yet.

Exotic Animal Control. 76 goats and 1 pig were killed in the Crater this month.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

July 5, 1945

MEMORANDUM for the Superintendent

SUBJECT: Report of the Hawaiian Volcano Observatory for June.

One crack near the southwest rim of Halemaumau opened 1 cm. The majority of the other cracks measured were either stationary or opened slightly.

Tilt was slight to the NNE or about normal for this season of the year.

But two earthquakes strong enough to be felt locally were recorded. They appear to have originated along the lower SW Kilauea rift. Forty one seismic disturbances were recorded at Mauna Loa and 19 at Kilauea.

Some of the data obtained during the movie ^{month?} is shown in the following table:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic Disturbances</u>	<u>Seismicity</u>
June 3	Mod WSW	7	5.75
June 10	Slighted NNE	4	1.50
June 17	Slighted NNW	4	2.75
June 24	Slighted NE	2	0.50

WORK by R. H. Finch

A large part of my time was taken up with seismological routine. A start was made in moving the library back into its regular room.

WORK by G.C. Omer

His routine jobs consisted of ~~assisting~~ ⁱⁿ seismology, making the radio time check, and some janitor work around the building. His non routine works consisted largely in working with Wm. Weinrich on making a magnetic instrument, repairing the Mauna Loa seismograph drum shaft, improvising a model seismograph for display to visitors, and in helping Mr. Kaufmann, a volunteer worker, in overhauling the 9" lathe.

R.H. Finch

R. H. Finch
Volcanologist

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., June, 1945

- June 1 - Fri - Worked with Weinrich in the shop in building a magnetic D Variometer. Short conference with Hiskey. Made the morning change of the Bosch-Omori seismograph.
- 2 - Sat - Worked with Weinrich in the shop in building the magnetic D Variometer. Made the morning change of the Bosch-Omori seismograph.
- 3 - Sun - Day off
- 4 - Mon - Made the Mauna Loa seismograph trip. Traffic Count at the Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph.
- 5 - Tue - Reconnected the telephone in Quarters #7 and added new batteries. New Batteries placed in #20 line telephone in Supt. Quarters. Traffic Count at the Hilo Entrance during the afternoon. Made the morning change of the Bosch-Omori seismograph.
- 6 - Wed - Took a radio time check of our standard clock. Prepared this job journal for the month of May for the Supt. Made a short copy for Mr. Finch. Traced map in pencil for the Supt. Made the morning change of the Bosch-Omori seismograph.
- 7 - Thu - Worked on drawing for the Supt. Ruined the first copy in trying to ink it. Started a second copy in pencil. Made the morning change of the Bosch-Omori seismograph.
- 8 - Fri - Made the Mauna Loa seismograph trip. Finished the second version of the map in pencil for the Supt. Started to make a new seismograph drum shaft to replace one that was broken on this day. Made the morning change of the Bosch-Omori seismograph.
- 9 - Sat - Finished the Mauna Loa seismograph drum shaft repair. Serviced Car #35 for the Sunday trip up Mauna Loa. Made the morning change of the Bosch-Omori seismograph.
- 10 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- 11 - Mon - Made a trip to Hilo in a Park truck. Trucked up Groceries for Omer. Paid various Park bills in Hilo for Kim. Trucked up Bicycle for Finch. Trucked up chair for Omer. Made the Morning change of the Bosch-Omori seismograph.
- 12 - Tue - Made the Mauna Loa seismograph trip. Prepared food requisition for Kim. Prepared a letter to Welch Sc. Inst. Co. ordering magnets and requesting catalog.
- 13 - Wed - Made a radio time check of our standard clock. Searched thru telephone parts until I found a suitable bell assembly for use as outside bell at Supt. Quarters. Designed and started to build a wooden bell box for it. Made the morning change of the Bosch-Omori seismograph.
- 14 - Thu - Dental appointment with Dr. Kubo. Wisdom tooth filled.

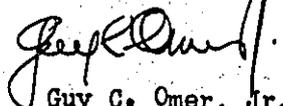
to Wingate, Pg.

- June 15 - Fri - Completed the wooden bell box for the outside bell. Installed this assembly at the Supt. Quarters. Helped to move some tables for party for Red. Made both the morning and evening changes of the Bosch-Omori seismograph.
- 16 - Sat - Attempted a temporary repair of the 16 mm. movie projector for Fagerlund. Mixed a gallon of fixing fluid for use at Kona seismograph. Carried supplies to Kona seismograph and checked on conditions at Kona seismograph. Made the morning change of the Bosch-Omori seismograph.
- 17 - Sun - Day Off.
- 18 - Mon - Took Park truck to Hilo. Carried Red and his baggage to the plane at Hilo N.A.S. Ran various errands for Kim (paid bills for Park; distributed invitations for bids for Park). Picked up four crates of Books at pier for Fagerlund. Worked on the Hilo seismograph driving clock. Made the morning change of the Bosch-Omori seismograph.
- 19 - Tue - Worked on the 16 mm. movie projector for Fagerlund. Made a radio time check of our standard clock. Made the morning change of the Bosch-Omori seismograph.
- 20 - Wed - Made the Mauna Loa seismograph trip. Finished the repairs of the 16 mm. movie projector for Fagerlund. Began to assemble material for a seismologic Display Table in Obs. Bldg. Lobby (project for Fagerlund).
- 21 - Thu - Outlined seismograph talk with Fagerlund. Discussed the desired arrangement of material on display table. Arrived at definite plans for its construction. Cleaning and other repairing of a rugged seismograph for use on this display table. Made the morning change of the Bosch-Omori seismograph.
- 22 - Fri - Made the Mauna Loa seismograph run. Worked with Mr. Kaufmann on the 9" lathe. We scrapped the headstock bearings and started to shim these bearings. Cleaned and adjusted parts of headstock and saddle. Made the morning change of the Bosch-Omori seismograph.
- 23 - Sat - Made a radio time check of our standard clock. Further cleaning up of the seismograph for public display table. Made the morning change of the Bosch-Omori seismograph.
- 24 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- 25 - Mon - Worked with Mr. Kaufmann on the 9" lathe. Re-shimmed the head-stock. The head-stock now seems to be satisfactory. Started work on saddle and tail stock. Made the morning change of the Bosch-Omori seismograph.
- 26 - Tue - Cleaned out part of the Obs. Bldg. Found a suitable map for use in seismologic display table. Worked on seismograph mass for use on display table. Made the morning change of the Bosch-Omori seismograph.
- 27 - Wed - Made a radio time check of our standard clock. Worked on 9" lathe with Mr. Kaufmann. Worked on seismograph display table. Made the morning change of the Bosch-Omori seismograph.

to Win_ace, Pg.

- June 28 - Thu - Dental appointment with Dr. Kubo. Had another temporary filling placed in another tooth. Purchased some small items for the demonstration seismograph (Fagerlund's Natural History Assoc. funds). Attempted to find some suitable paint, etc. for trimming this seismograph. Scouted for material for the H.V.O. instrument shop.
- 29 - Fri - Formed and assembled a plastic index for the demonstration seismograph. Formed a plastic scale for use with this instrument. Found a stock of cut glass and one frame of that size for use in the display table. Made the morning change of the Bosch-Omori seismograph.
- 30 - Sat - Made the Mauna Loa seismograph trip. Checked telephone line #11 for bad batteries and other faults. Found defunct batteries at Halemaumau; these were replaced. Found weak batteries at Devil's Throat. Found that there is a partial short on this line. This short will be searched for later at the first possible moment. Made the morning change of the Bosch-Omori seismograph.

Submitted,


Guy C. Omer, Jr.
July 2, 1945

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

July 5, 1945

MEMORANDUM for the Superintendent
Through the Chief Ranger.

SUBJECT: Monthly narrative report for June, 1945.

PUBLIC CONTACTS.

Interpretive work carried on during the month was as follows:

<u>Lectures</u>	<u>Dates</u>	<u>No. of people</u>	<u>No. of hrs.</u>
K.M.C.	6/8/45	17	45 min.
Obs.	6/10/45	30	1 hr.
K.M.C.	6/12/45	28	45 min.
K.M.C.	6/19/45	40	45 min.
K.M.C.	6/26/45	60	1 hr.
Insect talk & hike @ Bird Park	6/26/45	6	2½ hrs.

COMPLETION OF DATA ON N.P.S.I-3 FORMS.

Considerable time was devoted to the preparation of these forms. It was necessary to make several trips to the Hilo Tax Office, Land Office, and the Territorial Survey Office for some of this information.

The assignment is about 80% complete.

FIRE AND SANITATION INSPECTION REPORT.

The regular quarterly inspection was made on June 25th through June 27th.

In general fire equipment throughout the park was found satisfactory.

Kindly refer to report dated July 3, 1945.

PARK NURSERY.

Propagation and care of the Nursery continued during the month by Assignee Mitchell and the undersigned.

Germination of Uhi Uhi (*Mezoclonium kawaiense*) seeds by the boiling water treatment has not been as rapid as was expected. Faster results were obtained by the acid treatment.

UNITED STATES
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HAWAII
(2)

Nine *Kokia kookii* and fifteen *Hibiscadelphus* cuttings were transplanted from boxes to gallon cans by Assignee Mitchell on June 9th.

Germination records for *Kokia kookii* and *kookii* show 30 to 52 days for the former and 72 days for the latter.

We have not been able to germinate *Pittosporum* seeds to date. Several methods have been tried.

MISCELLANEOUS ACTIVITIES.

Checking Koa plots, fire equipment, fire alarm system; testing un-serviceable fire extinguishers, accompanying Chief Ranger Fagerlund on fire hazard inspection, taking mules from K.M.C. to park horse corral, helping to extinguish fire at Steaming Bluffs, and motor patrol.

While checking the cattle exclusion plots on June 18th the undersigned was accompanied by Dr. F.G. Holdaway, Entomologist at the University of Hawaii. Dr. Holdaway is vacationing in the park.

I directed the Volcano House fire drill on June 28th and received excellent cooperation from the management. The entire staff attended the drill.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Ranger

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

July 6, 1945

MEMORANDUM for the Superintendent:
Through the Chief Ranger.

SUBJECT: Report of activities for the month of June, 1945.

A large proportion of my time was spent in performing pigs and goats control work. For the month of June, 1945, 6 pigs and 14 goats were destroyed.

Some time was spent on sign painting, fence repairing at Kipuka Ohaina and also some fence repairing at Mauna Loa section.

A few signs were installed on the Mamalahoa highway. Tools were installed in fire cache No. 3 and No. 4 for fire fighting. Drove some cattle out from the Koa plot at Ohikea section and also transferring some park mules and horses from Kipuka Ohaina paddock to 6 tanks horse paddock.

I performed one accident investigation and also a travel count. Some time was spent having some papers signed. Persons who were involved in this accident were asked to sign statements. Repaired some horse halters and riding bridles.

A patrol covering all park roads and office duty was performed. Some fence material was hauled from Hilina to Keone for goat protection on goat crives. Also some fence material from Nene to Makahanau pali for repairing the broken down fence.

A. B. Medeiros

A. B. Medeiros
Ranger

July 5 1945

MEMORANDUM; For the Superintendent
Through the chief Ranger
SUBJECT: Daily Report for the Month of June 1945

A goat drive were made during the early part of the month of June, down at Kipuka Nene and Hilina Pali section; on the second day of the month, I were down at Nene goat corral counting goat's, and on my return I spented the other half of the day riding mule's at the ~~horse~~ corral which we had received from the army, mule's turned out all right.

Travel count and pig control were also taken care off; repair ing saddle's and taking horse's to Kipuka Ki and also fixing broken fence at upper section of horse paddock.

Aditien were also made on wing at 6500 goat corral, Ranger Medeiros and myself spented two days putting up wing and also checking fire equipment while we were on this trip.

On June the tenth fire fighting at Steam flat was protected and was put out in about 25 to 30 minute's, almost all employee's were there to put out fire.

Checking fire tool's in fire catches no. 1 and 2 mauna loa, and also installing fire tool's in fire catches no. 3 and 4 Makapuhi and Kipuka Nene;

Ranger Medeiros and myself spented eight day's ^{hauling} fence wire and post's from Kipuka Ahiu, down to Kaone in order to head the goat's toward's Kapukapu down to the corral; halling water tank and iron roof's down to Kahalaue.

We also halled a roll of wire to Makahanau for boundary line, and a load of fire wood from Kipuka Nene goat corral to Halape.
Goat's distroyed during the Month of June 1945. 27 while driving goats.


John P. Hanania Jr.

Park Ranger

CORRECTION

THE PRECEDING DOCUMENT(S) HAS
BEEN REPHOTOGRAPHED TO ASSURE
LEGIBILITY
SEE FRAME(S)
IMMEDIATELY FOLLOWING

•senoJnoziw

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July 5 1945

MEMORANDUM: For the Superintendent
Through the chief Ranger
SUBJECT: Daily Report for the Month of June 1945

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Goat's distroyed during the Month of June 1945. 27 while driving goats.

John P. Hawaiian, Jr.
John P. Hawaiian Jr.

Park Ranger

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORTS

May, 1945

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.

ARNO B. CAMMERER,
Director.

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Department of the Interior
National Park Service
Hawaii National Park
Hawaii

June 15, 1945.

MEMORANDUM for the Director:

The following is a report of the activities in the Hawaii National Park for the month of May, 1945:

Introduction

V. E. Day was observed quietly throughout the Territory though there were some informal celebrations. The Governor had requested people to remain at their jobs. Some firms however closed.

The Puna, Hilo, and Hamakua Districts experienced a severe drought that was extended into the park after the 8th. These districts did not share in the heavy April rains and fire hazards were serious, particularly in Puna where a series of grass, brush and forest fires burned over some 15,000 acres including some growing cane. One or more fires were burning almost continuously throughout the month. The most severe threatening the valuable and beautiful Keau ranch property of the Ehiyman family. Plantation and ranch employees, army, navy and marine personnel, all assisted in suppression. Damage amounted to probably over \$100,000.

Absence of rain, relatively low humidity, and fairly strong winds, aided the fires that were variously caused by cigarettes, sparks from a locomotive, careless burning off, and airplane bombing. It was necessary to close the Milina Fall section of the park entirely and post numerous "No Smoking" signs in other areas where hazardous conditions prevailed.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 48° and at the Haleakala Ranger station these recordings were 73° and 37°.

There was a trace of snow on Mauna Loa until the 4th of May, and there was fresh snow on the NE slope of Mauna Loa down as far as 12,000 on the 22nd. This melted within a couple of days. Patches of snow were visible on the Mauna Kea summit cones until the last few days in the month.

Rainfall at Kilauea totalled 3.48 inches and at the Haleakala

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Ranger Station 0.67. Of the 3.46" rain at Hilauea, only 0.76 fell after the 8th of the month. The humidity during the period was also relatively low.

Superintendent's Special Activities

With the exception of Selective Service meetings that were attended at Olan Local Board #1, and two inspections of fires in the Puna District, the superintendent was at park headquarters throughout the month.

Research & Observation

Several of the rim cracks around Halemauauu opened considerably. One near the SW rim opened 18 mm. One crack near the tourist lookout showed an opening of 2 mm. No movement was detected along the Chain of Craters Road. An earthquake at 08:47 (wartime) on May 19 was widely felt on this island and slightly felt on Oahu. It originated deep under Konaueweo. Earthquakes originating on Mauna Loa were felt at 19:45, May 29th, and at 16:06 May 31st.

Ranger Davis continued to spend part of his time on entomological research and on tree propagation.

At the May meeting of the Hawaiian Entomological Society, a native *Plegithysus* beetle was exhibited by Dr. C. E. Swazey, Consulting Entomologist at the Hawaiian Sugar Planter's Association, Honolulu. This beetle was described as a new species and named *Plegithysus davisii*, after its discoverer, Ranger Clifton J. Davis.

Ranger Davis has also reared a moth from *Trigona albidus* which is said to be new to Hawaii.

Mr. G. O. Fagerlund, Chief Ranger, prepared a paper entitled, "A Flood Developed Chasm over a Buried Fault" for publication in the *Volcano Letter*. This chasm opened during the April floods at Kapapala.

Assignee Mitchell and the Chief Ranger were absent from the park May 23rd to 27th inclusive, participating in an expedition into the Puuwaawaa forest, in Kona, Hawaii, with Mr. Colin Lennox and other employees of the Territorial Board of Agriculture and Forestry, and Mr. Leighton Hind, Manager of the Puuwaawaa Ranch. The purpose of the expedition was to fence the supposedly last survivors of some native trees growing in that area as recommended by Ranger Davis and Assignee Mitchell, following a previous field trip to the area. A report of accomplishments is in preparation. This work is part of the project to attempt preservation of rare and endangered native plants.

From May 1 to 18th, the Assistant to the Superintendent, P. E. Baldwin, took part in the expedition to Midway attempting to save the Laysan Rail and Laysan Finch from extinction. A complete report of

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this work will be submitted separately.

Reprints of the recent article by Paul H. Baldwin on the Nene, (Hawaiian Goose) population, were recently received and copies were sent out to all libraries in the Territory, to persons furnishing information for the article, and to friends of the park.

The silverwords in the Haleakala Crater are beginning to send up bloom stalks. An estimate as to the number starting to bloom has not been made, but there appear to be many more than last year.

Ranger Service

The rangers spent 4 man days on travel counting. Highway patrols were made every Sunday.

Prolonged dry weather increased the grass and forest fire hazard, and therefore a "Road Closed" sign was placed at the entrance to the Hilina Fall road and "No Smoking" signs were put up at Bird Park and at the Mauna Loa truck trail entrance.

The Thurston Lava Tube was inspected and because of uncertainty as to its safety, a "Proceed at your own Risk" sign was put up. The tube will be periodically inspected to check on the seemingly unsafe place.

Fire Protection

Two fire drills were held during the month, one for the park staff and one for the Volcano House staff.

Forest Protection

Two goat drives were held during the month netting 234 goats. An additional 52 were destroyed to bring the total eliminated to 286. Pigs destroyed numbered 41.

In the Haleakala section, a total of 57 goats were destroyed in the Crater this month.

Interpretation

The scheduled interpretive program consisted of 5 Auto Caravan trips with an attendance of 167, and 1 hiking trip with an attendance of 12. Sixteen lectures were given at the museum to a total of 534 persons, 6 lectures outside the park to a total of 199, and 15 special lectures, to a total of 2,431 persons. The Chief Ranger presented two of the special programs at the U.S.O. club in Hilo, Hawaii. Kilauea Military Camp tours stopped regularly at the Observatory and Naturalist Building, where half hour informal talks were given. Service personnel

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on these tours totalled 700.

Offers to exchange kodaslides have been made to 12 of the parks on the mainland. As soon as a representative collection is on hand, a weekly lecture on National Parks will be scheduled. This will likely not be before September or October.

A copy of the 1942 eruption movies was loaned to a Mr. Robert Stanger, who is Director of the Waialeale Settlement in Hilo, to show on the island of Kauai. The film was shown 15 times to 2,451 people.

Accidents

A traffic casualty occurred on May 23, on the Mamalahoe Highway grade and curve between the Volcano House and the Sulphur bank road, involving a civilian car and bicycles ridden by soldiers, from the Kil-eua Military Camp. One soldier, S/Egt. Donald R. Johnson, was killed. Ranger Madeiros assisted by local police, immediately investigated, and a report is being prepared. The accident appears to have been caused through negligence of those on the bicycles.

Police Protection

Ranger Hjort, In-Charge, Haleakala Section reports that a William B. Seay, of the Naval Air Station, Fuanene Kani, was caught and arrested as he came out of the silversword trail with a freshly picked silversword in his hand. He was turned over to the shore patrol officer in Wailuku, and now awaits trial.

Visitors

Mr. Clark Lee, noted war correspondent, and Mrs. Lee, daughter of the late Princess Abigail Kawananakoa, were recent guests at the Volcano House. Mr. Lee had just returned to Honolulu in March, after covering General Douglas MacArthur's invasion of the Philippines. He had also been in the Normandy invasion, in Italy, at Guadalcanal, and in the Philippines at the time of the Japanese attack.

Miscellaneous

Mr. Frank C. Atherton, Chairman of the Board, Castle & Cook Ltd., director of many Territorial corporations, philanthropist, civic leader and friend of the park, and active supporter of the Volcano Research Association, died on May 29.

For the first time since the early months of the war, a food shortage arose on the island of Hawaii and caused much concern. The Governor and other officials are attempting to remedy the situation. Many staple foods including flour, rice and butter were not procurable for several weeks. There has been a rather severe beef shortage on the island of

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Hawaii for many months now since previous restrictions on shipping
beef from this island to Honolulu were removed.

Edward G. Wiegata,
Superintendent

Orig. & 5 c's - Director
2 c's - Regional Director
2 c.c. - Files

1 yellow

11 altogether

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

June 11, 1945.

MEMORANDUM for the Superintendent:

Subject: Chief Ranger's Narrative Report for May, 1945.

General

Ranger Hauanio was on annual leave the first week of May and Ranger Davis from May 22-28 inclusive.

The Chief Ranger attended one meeting of the Toastmasters club in Hilo.

Interpretation

The scheduled interpretive program for May consisted of three weekly illustrated talks on volcanoes. The Chief Ranger presented two programs at the U.S.O. club in Hilo. See statistical report for full data on interpretive services given during May.

Offers to exchange kodaslide have been made to 12 of the parks on the mainland. Exchanges have already been made with Yellowstone, Grand Canyon, Crater Lake, Sequoia-Kings Canyon, and Mt. Rainier National Parks. As soon as a representative collection is on hand, a weekly lecture on National parks will be scheduled. This will likely not be possible before September or October.

A copy of the 1942 eruption movies was loaned to Mr. Robert Stenger, Waiakea Settlement Director, to show on Kauai Island. The film was shown 15 times to 2,431 people.

Research

Ranger Davis continued to spend part of his time on entomological research and on tree propagation.

The Chief Ranger prepared a paper entitled, "A Flood Developed Chasm over a Buried Fault" for publication in the Volcano Letter.

Assignee Mitchell and the Chief Ranger were absent from the park May 23 to 27 inclusive, participating in an expedition into the

Puuwaawaa forest with the Territorial Board of Agriculture and Forestry and Mr. Leighton Hind of Puuwaawaa Ranch.

The purpose of the expedition was to fence the supposedly last survivors of some native trees growing in that area. A report of accomplishments is in preparation.

Travel

The rangers spent 4 man days on travel counting.

Protection

Two fire drills were held during the month, one for the park staff, and one for the Volcano House staff. Fire equipment was checked weekly.

The cattle exclosures on Mauna Loa were checked.

Highway patrols were made every Sunday.

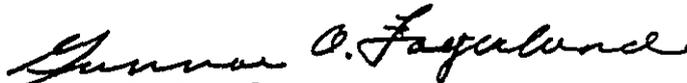
Prolonged dry weather increased the grass and forest fire hazard. A "Road Closed" sign was placed at the entrance to the Hilina Fali road and "No Smoking" signs were put up at Bird Park and at the Mauna Loa truck trail entrance.

Thurston Lava Tube was inspected. Because of uncertainty as to its safety, a "proceed at your own risk" sign was put up. The tube will be periodically inspected to check on the seemingly unsafe place.

Two goat drives during May netted 234 goats. An additional 52 were destroyed to bring the total eliminated to 286. Pigs destroyed numbered 41.

In the last part of April or early May, the Navy inadvertently painted a bombing target on the lava flat near the shore in Kaaha about one mile outside the bombing range. When this was called to the attention of the Commanding Officer at Hilo Naval Air Station, the target was promptly removed.

A traffic casualty occurred on May 25 on the Mamalahoa Highway grade and blind curve between the Volcano House and Sulphur bank road involving a civilian car and a bicycle ridden by two soldiers. One soldier, S/Sgt. Donald R. Johnson, was killed. Ranger Medeiros investigated and a report has been prepared for the Superintendent.


Gunnar O. Fagerlund,
Chief Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Hawaii National Park
Hawaii

June 14, 1945.

MEMORANDUM for the Director:

Attached is the statistical report of interpretive services for
the month of May, 1945:

Edward G. Wingate,
Superintendent

By
Gunnar O. Fagerlund

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MONTHLY STATISTICAL REPORT OF INTERPRETIVE CONTACTS
IN SCENIC OR SCIENTIFIC AREAS

Hawaii National Park
Name of Area

Number of Persons Engaged in Interpretive Activities

Technical Administrative Other
Permanent One One One May
Temporary One One One Month
1945
Year

CONDUCTED TRIPS		No.	Attend.	Duration*	V.P.H.**
Auto Caravans					
Hiking Trips		5	167	2 1/2 hr.	417
Ruins		1	13	4 hr.	48
*List other types					
Total		6	179	XXX	465
LECTURES					
Campfire					
Hotel or Lodge					
Museum					
Outside of Park		16	854	1 hr.	854
Special**		8	169	1 hr.	169
**Includes all other types		15	2451	1 1/2 hr.	608
Total		27	3274	XXX	1461
ATTENDED INTERPRETIVE STATIONS & MUSEUMS					
Name of Station					
Observatory			700	1/4 hr.	175
List by name and type					
			700	XXXX	175
UNATTENDED INTERPRETIVE STATIONS					
Name of Station, Nature Trail, etc.					
List by name and type					
				XXX	

BROADCASTS	
Station	Subject

Total Contacts 4,153
Total V.P.H. 2,101
Total Visitors _____

Name _____
Title Genney G. Fagerlund

MAIL ATTENTION NATURALIST DIVISION, NATIONAL PARK SERVICE, WASHINGTON, D. C., IN TIME TO ARRIVE ON OR BEFORE THE TENTH OF THE MONTH FOLLOWING THE ONE REPORTED ON.

* AVERAGE DURATION OF ACTIVITY.

** THIS COLUMN REPRESENTS VISITOR PARTICIPATION HOURS. THE FIGURE IS OBTAINED BY MULTIPLYING THE VISITOR ATTENDANCE BY THE AVERAGE DURATION OF THE CONTACT; I.E., THE AVERAGE TIME DEVOTED TO THE TRIP, LECTURE, MUSEUM VISIT, OR USE OF INTERPRETIVE STATIONS.

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

June 4, 1945.

MEMORANDUM for the Superintendent:

(Through the Chief Ranger)

Subject: Monthly narrative report for May, 1945.

Public Contacts

Interpretive work carried on during the month was as follows:

Contacts

<u>Lectures</u>	<u>Date</u>	<u>No. of people</u>	<u>No. of hours</u>
K.M.C.	5-1-45	30	45 min.
K.M.C.	5-4-45	60	45 "
Observatory	5-6-45	25	1 hr
K.M.C.	5-11-45	40	45 min.
Girl Scouts at 29-miles	5-4-45	26	45 min.
Girl Reserves at 29-miles	5-11-45	24	1 hr.
K.M.C.	5-15-45	46	45 min.
Observatory	5-20-45	25	1 hr.
K.M.C.	5-29-45	62	45 min.
<u>Hikes</u>			
Girl scouts	5-5-45	12	4 hrs.
<u>Tours</u>			
Girl Reserves	5-12-45	24	3 hrs. 45 min.
U. S. Army	5-29-45	40	2½ hrs.

Park Nursery

I devoted considerable time to the nursery this month.

As many seeds were planted and it was necessary to keep them moist

and to make frequent observations on other growing material. Some sand was obtained from a wash-out near the Hilina Pali road, and the plant material is responding very well to this addition. More sand will be required by the nursery as it is just about exhausted.

Six Mamani and one Kopiko seedlings were transferred to Superintendent Wingate's residence.

Maintenance

While obtaining sand for the nursery some repairs were made to the Hilina Pali road. Two army enlisted men assisted me in the above operations.

Miscellaneous activities

Travel count, patrol, inspecting Lava Tube with Chief Ranger Fa-gerlund, checking fire equipment, checking Koa plots, making "no smoking" signs for Bird Park and vicinity, taking Baldwin to and from Hilo, consulting the Tax office about data on land acquired by the park and Entomological research.

Two papers were presented before the Journal Club on Wednesday evening, May 16th. The first paper was a joint paper by Assignee Mitchell and I on the host records of the spittle bug. The second paper dealt with observations on the fern weevil with notes on parasitism.

The undersigned was on leave from May 22 to May 28th inclusive.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Ranger

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

June 7, 1945.

MEMORANDUM for the Superintendent:

There follows the monthly report for May 1945 on activities of the Assistant to the Superintendent:

All time from May 1945 was spent on the Midway project in an attempt to save the Laysan Rail and Laysan Finch from extinction. A complete report of this work is submitted separately.

Administrative work

Equipment loaned to U. S. Army, Corps of Engineers, reviewed, and new receipt signed by Colonel Muller for rest of equipment. The Army agreed to return two typewriters now.

Letter written to Colonel Muller regarding bombing near Kaone flats.

Started card catalog for Map and Plan file.

Attended staff conference May 30, to plan maintenance program.

Assisted with arrangements for goat drive of May 30.

Assisted Ranger Medeiros with preparation of accident reports.

Protection Work

Helped with protection program in absence of Chief Ranger Fagerlund. Conducted fire drill for Volcano House employees May 24; Fifteen employees attended.

Interpretive work

May 22	Movies at Observatory	50 persons	3/4 hr.
" 25	" " "	45 "	"
" 25	" " 29 miles	16 "	2 3/4 hr. ✓
" 28	Park tour and movies	43 "	3 hrs.
" 28	Movies, (another showing)	32 "	3/4 hr.
" 31	Park tour	20 "	2 hr.

Wildlife work

Reprints of the recent article on the Hawaiian Goose population were received. Copies were sent out to all libraries in the Territory, to persons furnishing information for the article, and to friends of Hawaii National Park.

Paul H. Baldwin

Paul H. Baldwin,
Assistant to the Superintendent

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

June 1, 1945.

MEMORANDUM for the Superintendent:

(Through the Chief Ranger)

Subject: Report of Activities for the Month of May, 1945:

A large proportion of my time was spent participating in goat drives, assisted by Ranger Hauanio, Jr. The drives were performed in the following areas: Hilina, Nene, Pepeiau, Kaone, Kapukapu, and Apua. For the month of May 1945, 234 goats were sold, and 34 destroyed. A little time was spent shoeing park horses. From May 1, to the 7th, I was on sick leave.

One travel count was performed at the Hilo entrance. Cleaning was done around the fire hydrants and on the fire fighting trails.

A trip to Hilina, in company with Ranger Fagerlund, was made to check on a target said to be within the Kalue area. However, it was found at a distance of about 1/4 of a mile outside the bombing area.

On May 21, 1945, while on a goat drive, I noticed evidence of bombing between the areas of Kapukapu and Kaone. This was reported to the assistant to the superintendent and the Chief Ranger.

Within the areas of Ahiu and Pepeiau, a large number of the Ohia trees were formerly surrounded by sand up to the height of about 8 to 10 feet. However, it was noticed that this sand had been washed away during the recent storm.

On May 25, 1945, I investigated an accident which occurred within the park area. A lengthy report was compiled and submitted to the Chief Ranger.

Office duty was performed and a sign saying, "Road closed", was installed at the entrance of the Hilina Pali road.

For the month of May, 1945, 234 goats were sold to Mr. Roger James, Jr., and 34 destroyed.

I suggest that no one be allowed in the Nene, Hilina and Pepeiau areas during goat drives. This would avoid possible accidents due to shooting.

A. B. Medeiros
A. B. Medeiros,
Ranger

June. 4, 1945

MEMORANDUM: For the Superintendent
Through the chief Ranger

SUBJECT: Daily report for the month of May. 1945.

Jobs which were done during the month of May; for the first week of May, I took annual leave which I spent in Honolulu to see the rodeo.

After attending on duty on the eleven-ed day of May, Ranger Medeiros and myself, spent a day at bird park cutting falling tree on trail, and also installing telephone post in the back of fire catche No. 2 Mauna Loa.

Horses were brought down from Kipuka Ki to horse corral to be shooed, preparing to make a drive at the Kahua, and Apua section; drive were helled on the 19 day of May.

Ranger Medeiros and I also worked around the utility area cutting grass around the fire hydrant.

Hauanio Sr. and myself put out a days work taking off wire and posts from old wing below horse corral at 6500 Mauna Loa, to extend the upper wing.

A trip were made to Kona Puuwaawaa Ranch, bringing an extra car for Ranger Fagerlund and Mitchell; there other car were in trouble so Foreman Waljen drove it back to the park.

I also took place in checking cars at Hilo Entrance, Travel Count were performed two days a month

Another goat drive were made on the 29 day of May, covering Pepeae area, Kahala, Kaone to Makahanau corral; the following day goat's were driving up to Kipuka nene corral.

Goat's distroyed in the month of May; 21 at Mauna Loa, and during goat drive.


John P. Hauanio, Jr.
Park Ranger

June. 4, 1945

MEMORANDUM: For the Superintendent
Through the chief Ranger

SUBJECT: Daily report for the month of May. 1945.

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Goat's destroyed in the month of May; 21 at Mauna Loa, and during goat drive.

John P. Hauanie, Jr.
John P. Hauanie, Jr.

Park Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK

Wailuku, Maui, T. H.
June 2, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of May, 1945 is respectfully submitted;

General Weather Conditions. Freak weather has brought a number of heavy afternoon rains to the dry side of the eastern end of Maui. The various ranches report grass knee deep and many plants thought dead beginning to show signs of life. The Crater is green once more in many places due to the lush growth of bracken ferns.

Park Weather Data.

Maximum Temperature-----73 degrees on the 13th
Minimum Temperature-----37 degrees on the 28th
Rainfall Total-----0.67 inches
Clear Days-----20
Partly Cloudy Days-----10
Cloudy Days-----1

Equipment and Supplies. The balance of the 1,000 bales of straw was received from the Army on Oahu this month. The Navy hauled the straw up to the Park.

The mules here do very well on straw for feed. With the addition of concentrated feed sold locally I am now able to round up and keep over-night all the stock needed for any Crater trips on the following day. This saves several hours as the animals wander over a large area here.

Feed has always been scarce in the small pasture at Kapalaoa cabin. I can now pack in a couple of bales of straw and some concentrated feed for each trip to that cabin.

Flora. As predicted last month the silverswords in the Crater are beginning to send up bloom stalks. An estimate as to the number starting to bloom has not been made.

*Fogelwood
part of hand report
on monthly report
E.G.W.*

Increase or Decrease in Travel. This month showed a slight increase in travel over this month last year. Civilian travel was less than this month last year.

Public Camps. There were 149 camper-days recorded this month. Mostly service men took advantage of the shelter houses in the Park.

Police Protection. William B. Seay, A.O.M. 3/c of VC-72, N.A.S. Puunene, Maui, was caught and arrested as he came out of the silversword trail with a freshly picked silversword in his hand. He was turned over to the Shore Patrol Officer in Wailuku and now awaits trial.

Destruction of Exotic Animals. 57 goats were killed in the Crater this month.

The rains on the south side of East Maui have provided enough feed for the large number of goats there. This has resulted in a decrease in the number that normally enter the Park from this area.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

June 6, 1945.

MEMORANDUM for the Superintendent:

Subject: Report of the Hawaiian Volcano Observatory for May:

Several of the rim cracks around Halemauau opened considerable. One near the SW rim opened 16 mm. The movement of a crack near the tourist observation stand was only 2 mm. No movement was detected along the Chain of Craters Road.

Tilt accumulated slightly to the WSW.

An earthquake at 02:47 (wartime) on May 19, was widely felt on this island and slightly felt on Oahu. It originated deep under Mo-kua-we-weo. Earthquakes originating on Mauna Loa were felt at 19:45, May 29, and at 16:06 May 31.

Some of the data obtained during the month is shown in the following table:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
May 6	Very slight SW	1	0.50
13	Mod. WSW	2	0.50
20	Slight NE	8	7.75
27	Slight NNE	3	.75

Work of R. H. Finch:

Seismological routine occupied most of my time. The driving clock for the Bosch-Omeri seismograph was overhauled and some new gears installed. Dr. C. F. Hiskey, a physical chemist who is a lieutenant in the Army, spent a part of the last week of May at the Observatory. William Weinrich, an instrument maker from Honolulu, was here from May 27th to June 3, and did some work in the Observatory shop.

Work of G. G. Omer:

He was on leave for two weeks. In addition to assisting with the seismological routine, he prepared an article for the Volcano Letter and worked with Mr. Weinrich in the shop.

R. H. Finch
R. H. Finch,
Volcanologist

*200
Monthly Report*

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

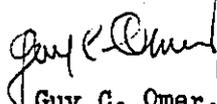
Subject: Job Journal, Guy C. Omer, Jr., Month of May, 1945

- May 1 - Tue - Prepared Food requisition for Kim. Prepared a memorandum on leave accumulated and expended by me to date for Baldwin. Attempted to get a radio time check for our master clock, but found no time transmission that day from NPM. Finished pencil work on drawings for the Volcano Letter and started inking. Wrote a letter to Coast & Geodetic about magnetic data. Changed the Bosch-Omori seismograph both morning and evening.
- May 2 - Wed - Made a radio time check of our master clock. Adjusted the clock rate and reset the clock. Finished inking Figure No. 1 for the Volcano Letter and started work on Figure No. 2. Searched the H.V.O. files for definite record of earlier magnetic work done here for inclusion into the Volcano Letter article. Made both morning and evening changes of the Bosch-Omori seismograph.
- May 3 - Thu - Made the Mauna Loa seismograph trip. Finished all drawings for the Volcano Letter. Further search of the H.V.O. files and a conference with Finch about the Volcano Letter article. Made both morning and evening changes of the Bosch-Omori seismograph.
- May 4 - Fri - Picked up Food orders and ran other Park errands in Hilo. Started to write the Volcano Letter article (returned at night and worked on it). Made both the morning and evening changes of the Bosch-Omori seismograph.
- May 5 - Sat - Made the Mauna Loa seismograph trip. Finished the Volcano Letter article, turned over all drawings and text to Finch. Prepared a food requisition for Kim. Prepared Job Journal for Supt. Wingate. Also prepared shorter account of H.V.O. work for Finch -- and a short account of Ranger Division work for Fagerlund. Worked rather late at night to complete these. Made both morning and evening changes of the Bosch-Omori seismograph.
- May 6 - Sun - Day off --
- May 7 to May 23 -- Furlough in Honolulu -- During this time I spent about three days in H.V.O. business --
- a) read proof of Volcano Letter article
 - b) obtained photostats for a forthcoming scientific paper from H.V.O.
 - c) obtained additional magnetic data from the Honolulu Magnetic Observatory for a study to be completed at H.V.O.
 - d) attempted to locate some clock drives for our seismographs.
 - e) library work in developing the design for a simple magnetic observatory for H.V.O.
 - f) conferences with Drs. Jaggard, Wentworth, and MacDonald about H.V.O. projects.
- May 24 - Thu - returned to Hawaii on morning plane. Conference with Finch.
- May 25 - Fri - Made the Mauna Loa seismograph trip. started re-inking the

world seismic map for publication (larger dots). Made the morning change of the Bosch-Omori seismograph.

- May 26 - Sat - Made a radio time check of our master clock. Prepared fixing fluid for the Bosch-Omori seismograph and filled its reservoir. Some Correspondence. Prepared leave data memorandum for Baldwin. Checked with the K.M.C. telephone man on the mutual telephone situation while I was gone (I had a report from Baldwin that K.M.C. had altered some of our lines). Finished the re-inking of the seismic map. Made the morning change of the Bosch-Omori seismograph.
- May 27 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- May 28 - Mon - Showed Weinrich about the Observatory. Moved tables, bookcases, etc. with Finch from Quarters #1 to the Observatory. Returned K.M.C. telephone material to the K.M.C. switchboard. Made the morning change of the Bosch-Omori seismograph.
- May 29 - Tue - Had a conference with Weinrich about building the magnetic instruments for a H.V.O. magnetic observatory (Jaggar will supply the funds). Had a conference with Dr. Hiskey about chemical analysis of volcanic gases. Searched for a suitable Japanese map and work of Omori to be used in a H.V.O. published paper. Made the morning change of the Bosch-Omori seismograph.
- May 30 - Wed - Had a further conference with Dr. Hiskey. We planned a possible Army-H.V.O. cooperative chemical program involving 8 Army chemists. Worked with Weinrich and started to build a pro-term declination variometer to be used immediately at H.V.O. Made the morning change of the Bosch-Omori seismograph.
- May 31 - Thu - Made the Mauna Loa seismograph trip. Took Dr. Hiskey on a specimen collecting trip to Mauna Iki at Mr. Finch's suggestion. These specimens are to be analyzed by Dr. Hiskey at Honolulu. Made the morning change of the Bosch-Omori seismograph.

Submitted,


Guy C. Omer, Jr.
June 6, 1946

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT

April, 1945

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.

ARNO B. CAMMERER,
Director.

Hawaii National Park
Hawaii

May 15, 1945

MEMORANDUM for the Director:

The following is a report of the activities in the Hawaii National Park for the month of April, 1945:

Introduction

On April 7, 8 and 9, the Volcano region and much of the Kau District on Hawaii experienced one of the heaviest and most damaging rain storms on record. The storm that was preceded by fairly high winds on the 7th that uprooted some trees and broke many branches, caused little other damage in the park except to the gravel surfaced Mauna Loa Truck Trail and the Hilina Pali Auto Trail, both of which were badly washed with some culverts washed out. The main roads were undamaged and drainage structures were able to carry the great volume of water. Basements in the headquarters and observatory buildings, and in several quarters were flooded and some damage to stationery and supplies resulted. In Kau, particularly at the Kapapala ranch house and from there to Pahala, damage was severe. Flood waters, carrying soil, boulders, logs, etc., rushed through the ranch property overturning small buildings and carrying away loose objects up to the size of automobiles. The new road between Kapapala and Pahala was completely washed away for long sections, and it may be necessary to completely realign and reconstruct this part of the road. The old road has been pressed into service and light vehicles may now travel through the District.

Mr. Bradford Sumner, the manager of the Kapapala Ranch, his wife, and a number of ranch employees, suffered not only extensive loss of personal property, but were fortunate to escape with their lives from the flood. After some six hours exposure to the force of the flood, they were finally rescued by a party from the Kilauea Military Camp. Only the presence of a large grove of bamboo probably saved the beautiful old ranch house from very severe damage or complete destruction. As soon as we learned of the disaster at Kapapala, our assistance was offered and permission was given the Territorial Highway Department to haul rock and gravel from nearby sites in the park to make emergency road repairs.

The rain which began on the afternoon of the 7th lasted until about 2:00 p.m. on the 9th. During this time a total of 23.84 inches was recorded at the park headquarters with 12.90 inches falling in the 24 hours ending 8:00 a.m. on the 9th. But, these figures do not show the

RECEIVED AS FOLLOWS

-2-

real intensity of the rain which can best be gaged by the fall between 8:00 a.m. and 2:00 a.m. on the 9th when 8.49 inches fell and during the last hour only a drizzle was falling.

The 12.90 inches is the heaviest single 24 hour precipitation in 21 years of records studied, and the next greatest was on March 3, 1939 when 11.01 inches was recorded. The three day period with 23.84 inches also exceeded any similar period during the 21 years, the nearest being 20.99 inches on August 1, 2 and 3, 1937, but this was more evenly distributed. The monthly total of 27.91 inches has been exceeded twice during the 21 years, with 29.85 inches falling in March 1939 and 43.18 inches in December 1927.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 73° and 45°, and at the Haleakala Ranger Station these recordings were 65° and 36°. Rainfall at Kilauea totalled 27.91 inches and at the Haleakala Ranger Station, 11.22 inches.

Light snow was visible on Mauna Loa at an elevation of 11,500 ft. on the 8th of April and again at 10,500 ft. on the 18th of the month. It was visible in patches on Mauna Kea throughout the month.

Superintendent's Special Activities

The superintendent was at Kilauea headquarters throughout the month. Selective Service Board meetings were attended and on the 21st, he and Mr. Paul Baldwin appeared at a public hearing in Hilo on the matter to establish the Territorial Prison in the forest near Kulani Cone about 7 miles north of Kilauea. Mr. Baldwin represented the Manuki Branch of the Audubon Society and the superintendent appeared as an individual. Both strongly opposed the project for a number of reasons, the principal one being the apparently unnecessary intrusion into the largest remaining wilderness area in the islands, and resultant damage to the forest and birds by farming and lumbering to be done by prison inmates. Opinion at the hearing was divided but a standing vote showed those in favor of the project to be in the majority.

The superintendent made two inspection tours of the park roads during the heavy rains.

Research & Observation

A strong NE tilt accompanied the torrential rains of April 7-8. The N tilt recovered immediately after the rain stopped but a slight easterly tilt continued for over a week before there was a sharp recovery to the west. There were no signs of uneasiness at either Kilauea or Mauna Loa though internal pressure continued high. A total of 54 seismic

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disturbances were recorded at Kilauea and 32 at Mauna Loa. Several of the cracks around Halemauuman rim showed distinct openings and none showed a closing. One crack along the Chain-of-Craters Road opened slightly.

An article entitled, "Fate of the Laysan Rail", by Paul H. Baldwin, was submitted to the Director's office for forwarding to the Editor of Audubon Magazine.

A large amount of time was devoted to the park nursery, as many germination experiments are under way. Other nursery activities included tidying the nursery, repairing a soil screener, screening soil, and preparing propagation flats.

The Ranger-In-Charge Haleakala section reports that a Mr. Elwood C. Zimmerman, Entomologist from the Bernice P. Bishop Museum, Honolulu, spent several days looking for insects in the park. He made several interesting finds among which was a new species of Pseudopsoceta, a flightless lace wing. Mr. Zimmerman stated that the Pseudopsoceta sp. on Santalum forms an open gall.

A recent inspection of the more important silverword areas in the Haleakala Crater shows that there is an abundance of reproduction. The plants are in seemingly good condition and are fairly free of insect infestations.

Ranger Hjort reports that an inspection of a group of Sandalwood trees near the road just above 8,000 feet brought to light a number of young plants. He says that he does not know if these plants are from seed, root sprouts, or whether they were caused by the breaking off of a larger tree some time ago. He thinks they are worthy of being fenced in so they cannot be destroyed by cattle or mules. This is the first reproduction Ranger Hjort has seen of this tree.

Ranger Service

Rangers Medeiros and Hananiau spent approximately one week repairing the telephone line between Park Headquarters and Puu Uluua on Mauna Loa. The Hilina Pali road was damaged by the heavy rains early in the month and required labor to restore it to a passable condition. Names and initials made with rocks were obliterated at Uwekahuna.

Cattle were removed from Kipuka Ki and from the largest Koa plot and all cattle enclosures were inspected.

Fire fighting equipment was checked weekly and one fire drill each was conducted for the Volcano House and the Park staff.

Forest Protection

Two goat drives were held during the month netting 237 goats. Sixteen others were destroyed, making a total of 243 goats eliminated during the

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month of April. Twenty-two pigs were also destroyed.

In the Haleakala section, a total of 96 goats were destroyed.

Police Protection

The Chief Ranger, Gunnar O. Fagerlund, has talked with Lt. Commander Palmedo of the Naval Air Station, Hilo, regarding bombing and strafing along the park coastline. The navy has issued orders that bombing and strafing must be confined to the target area.

Ranger Hjort, Haleakala, reports that a driver from the Puu Nianiau Army Camp was cautioned about reckless driving in the Park. The lieutenant in charge of the camp promised to ground the man if further action is necessary.

Interpretation

The scheduled interpretive program consisted of 6 auto caravan trips with an attendance of 535, and 1 hiking trip with an attendance of 43. Eight lectures were given at the Kilauea Military Camp to a total of 705 servicemen, 12 at the museum to a total of 346, and 3 outside the park to a total of 93 persons. Kilauea Military Camp tours stopped regularly at the Observatory and Naturalist Building where half hour informal talks were given. Service personnel on these tours totalled 300.

Cooperating Government Agencies

The Ranger-In-Charge Haleakala has informed us that the Army is again attempting to expand their facilities both within their area and in the park proper, and that all such moves have been blocked successfully so far.

Signs

Ranger Hjort reports that the signs at the Observation Station warning people not to hike in the crater has proved successful. Only one party of Marines have gone into the crater since the sign was installed, and they went in along the rim before coming to the sign.

Visitors

Lt. Jack C. Lang, U. S. Navy, formerly of Yellowstone National Park, was a park visitor on April 28th. He was taken around the park and shown the movie of the 1942 eruption, and expressed appreciation for the hospitality shown him while in the park.

Miscellaneous

Mr. John Dos Passos, noted author, paid a brief visit to Hilo during the month. He was enroute back to the mainland from a special assignment for Life Magazine.

RECEIVED AS FOLLOWS

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Senator Thomas Pedro Jr., long standing opponent of the Kalapana addition to the Park, died in the Queen's Hospital, Honolulu, April 12th, after having suffered from a bad foot infection.

Princess David Kawanakoa, the last remaining recognized Hawaiian Royalty, died on the 15th of April. Before the war, she was a frequent visitor to the Hawaii National Park.

Edward G. Nigate,
Superintendent

Orig & 5 c's - Director
c.c's - Regional Director

RECEIVED AS FOLLOWS

Kapapala Ranch house and office showing damage and debris left by the flood.

RECEIVED AS FOLLOWS

Grounds and Buildings at Kapapala Ranch showing
flood damage.

RECEIVED AS FOLLOWS

Typical flood damage along the Mamalahoa Highway between
Kapapala and Pahala resulting from storm April 7-8-9.

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

May 5, 1945.

MEMORANDUM for the Superintendent:

Subject: Chief Ranger's Narrative Report for April, 1945.

000 - General

The Chief Ranger was on annual leave from April 23 to 30 inclusive.

100 - Administration

The Chief Ranger made out efficiency ratings for the three rangers at Kilauea and served as chairman of the efficiency rating committee.

A report was prepared on the inspection trip into Kipahulu Valley.

200 - Maintenance

The Lava Tube bridge was found unsafe and has been removed.

Rangers Medeiros and Hauanio spent approximately one week repairing the telephone line between park headquarters and Puu Uluula and assignee Omer spent two days on this same job.

The Hilina Pali road was damaged by the heavy rains early in the month and required some labor to restore it to a passable condition. More work should be done on it, however.

400 - Interpretation

The scheduled interpretive program for April consisted of three weekly illustrated talks on volcanoes and one on birds. This is a sizeable program in view of the fact that the need for interpretation is not acknowledged in Washington. We have received considerable commendation on the interpretive work we are doing. The public seems pleased with it. Of course much more should be done. Kilauea Military Camp alone has 20,000 visitors staying 100,000 visitor days per year.

Eleven special groups were given interpretive service during the month.

Ranger Davis spent part of his time on plant propagation studies and

insect research.

600 - Protection

The Chief Ranger talked with Lt. Comdr. Palmedo of the Naval Air Station Hilo about bombing and strafing along the park coastline. The Navy has issued orders that bombing and strafing must be confined to the target area.

Two goat drives were held during the month netting 227 goats. Sixteen others were destroyed, making a total of 243 goats eliminated during the month of April. Twenty-two pigs were destroyed.

Names and initials made with rocks were obliterated at Uwekahuna. Others in Keanakakoi and Kilauea Iki are yet to be erased.

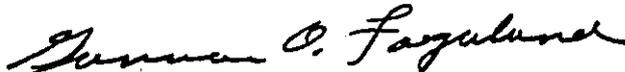
Cattle were removed from Kipuka Ki and from the largest Koa plot and all cattle exclosures were inspected.

Fire fighting equipment was checked weekly and one fire drill each was conducted for the Volcano House and Park staff.

The park participated in the Territory-wide blackout on April 5.

One hundred and fifty feet of fire hose was installed in hose house

#3.


Gunnar O. Fagerlund,
Chief Ranger

c.c. Mr. Fagerlund
c.c. - Ranger File

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

April 30, 1945.

MEMORANDUM for the Superintendent:

There follows the monthly report for April 1945, of the Assistant to the Superintendent:

Administrative work

Many details performed cannot be individually listed, but some of the more important items attended to were: A conference was held with Colonel Muller April 19, concerning the loan of a grader, the return of equipment borrowed from the park by the U. S. Engineers and other matters. Memoranda were prepared following this conference. An inspection was made of park roads following the 13 inch rain on April 8. Flood control work was performed on the morning of April 8 to relieve the administration and observatory buildings. Two efficiency ratings were prepared. Transmitted to the Regional Office for approval were plans for additional cottages at K.M.C. and PCP major roads proposal forms. The former lessee cottages were inspected to advise Waltjen on what to remove for park use prior to advertising for bids on the buildings. The work order program was carried on with revisions and inspections during the month. Plan numbers were assigned the sheets for the Volcano House manager's cottage and the K.M.C. cottages. Assistance was given Miss Milne in the filing program.

Laysan Rail project

Arrangements for transportation were completed. The Territory arranged for Dr. Harvey I. Fisher of the University of Hawaii to participate as territorial representative. An article entitled, "Fate of the Laysan Rail" was submitted to the Director's Office for forwarding to the editor of Audubon Magazine.

Interpretive work

<u>Date</u>	<u>Work</u>	<u>Audience</u>	<u>Time involved</u>
Apr. 3	Movies, K.M.C.	25 persons	45 min.
10	Birds, Standard School	50	60 "
11	" , Observatory	2	60 "
18	" , "	7	60 "
24	Movies, K.M.C.	10	60 "
25	Birds, Observatory	3	45 "

Interpretive work - (cont)

<u>Date</u>	<u>Work</u>	<u>Audience</u>	<u>Time involved</u>
Apr. 28	Crater tour & movies	50	105 min.
29	Movies, observatory	25	45 "
			<hr/> 480 " = 8 hrs.

Miscellaneous

A hike was made to an unmapped cinder cone at 3,700 ft. elevation below Kulani Cone in company with Mr. Finch and Dr. Macdonald to see the bird life in this large tract of undisturbed forest. I did not see as many kinds as I have seen previously higher up near Kulani Cone. The Omao, iiwi, apapane, amakihi, olive green creeper and elepaio were all seen. The new road from the Mt. View flume road to Kulani should afford a good chance to record the birds at different elevations in this almost unknown forest.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent

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

April 30, 1945.

MEMORANDUM for the Superintendent:

(Through the Chief Ranger)

Subject: Monthly narrative report for April, 1945:

Public Contacts

Interpretive work carried on during the month was as follows:

Contacts

<u>Lectures</u>	<u>Date</u>	<u>No. of people</u>	<u>No. of hours</u>
K.M.C.	4/6/45	35	45 min.
Observatory	4/8/45	25	1 hr.
"	4/21/45	50	45 min.
"	4/22/45	9	1 hr.
K.M.C.	4/27/45	150	45 min.
Hale Aloha	4/27/45	30 (Girl Scouts)	30 min.
29 mi.	4/28/45	13 (" ")	30 min.
 <u>Park Tours</u>			
"	4/21/45	35 (Army)	2 hrs.
"	4/27/45	100 "	2½ hrs.
 <u>Hikes</u>			
	4/28/45	43 (Girl Scouts)	3½ hrs.

Park Nursery

Considerable time was devoted to the nursery this month as many germination experiments are under way. Other nursery activities included tidying the nursery, repairing a soil screener, screening soil, and preparing propagation flats.

Goat Control

Rangers Medeiros, Hauanio and I left for Hilina Pali on April 10th to participate in a goat drive. One hundred and fifty one goats were

turned over to the contractor, Mr. Rodgers.

On the way down to Hilina Pali from Kipuka Nene it was observed that the road was washed out badly in several places. The worst wash out occurs 2.4 miles from Kipuka Nene.

Since the removal of between 100 to 400 goats a month means a great deal to the park, it is suggested that the labor crew be made available for two days as soon as possible to help repair this road.

Removing names etc., from fault block at Uwekahuna

Assignee Mitchell and I spent an hour and a half on April 21st breaking up the names and initials formed by rocks on the fault block at Uwekahuna. Other formations at Keanakekoi and Kilauea Iki will be broken as soon as possible.

Blackout drill

I inspected the residential and hotel areas during the test blackout on the night of April 5th. The cooperation of all concerned was excellent.

Thurston Lava Tube Entrance

While taking a party through the Lava Tube on April 21st it was noticed that the floor of the bridge had rotted away in several places. Ranger Hauanio and I inspected the bridge thoroughly a few days later and decided that it was unsafe. A portion of it has been torn down and signs have been posted advising visitors to detour to the other entrance.

Re-inspection of Volcano House Dormitory

This inspection was accomplished on April 26th and the premises were found to be in excellent condition.

Removal of cattle from Kipuka Ki

Assisted by Rangers Medeiros and Hauanio, five cattle were removed from Kipuka Ki and herded into our horse corral. Tom Lindsey, foreman of the Shipman Ranch was notified to remove them to ranch property.

Miscellaneous activities

Checking fire equipment, travel count, patrol, entomological research, making repairs to Hilina Pali road, and inspection of cattle exclusion plots.

Visitors

Lt. Jack C. Lang, formerly of Yellowstone National Park, was a park visitor on April 28th. He was taken around the park and shown the movie of the 1942 eruption. He expressed appreciation for the hospitality shown

him while in the park.

Observations

It has been observed that (1), the native raspberry, Akala, is fruiting very abundantly this year. (2), the circinate buds of the Amaumau ferns are making excellent vegetative growth. The malformed stipes caused by the fern weevil are less numerous than ever noticed previously.

Respectfully submitted,

Clifton J. Davis.

Clifton J. Davis,
Park Ranger

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

May 9, 1945.

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Report of Activities for the Month of April, 1945:

The lava tube bridge has been declared unsafe and is at present closed to the public with signs to that effect. A tree which was obstructing the trail was cut down.

A patrol and inspection tour was made to 10,000 feet, Mauna Lea. Fuel was taken to the resthouse and some repair work was done on the telephone line. The line from headquarters to 6,700 ft. was checked and repaired. There were broken wires and a large number of fallen poles. An inspection was also made of the line between headquarters and the Territorial Ranger Station.

Pig and goat control occupied a large amount of time. On these trips I was accompanied by John Hauanio, Jr., Ranger. For the month of April, a total of 11 pigs and 4 goats were destroyed.

Rangers Davis and Hauanio Jr., assisted in driving the cattle away from the fenced Koa plot at Ohikea.

A few signs were painted in connection with the closing of the Lava Tube.

At fire hose house #6, 3 - new 50 ft. fire hoses were installed.

A. B. Medeiros
A. B. Medeiros,
Ranger

Noted: G.O.F.

*Foggerland
Note to give
for our report
G.P.F.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK



Wailuku, Maui
May 1, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of April, 1945 is respectfully submitted;

The Marines are back on Maui after their battle for Iwo Jima which has been said to be the most costly battle in the history of the Corps. Maui citizens turned out en masse to welcome them at the pier on their arrival in Kahului. Every store on Maui displayed American flags and such signs as "Welcome Home Marines", "Semper Fidelis", and "We Are Proud of You Maui Marines". Two bands played on the pier, candy and beer were given to each Marine, and a group of Navy Waves were on hand to kiss some of the more fortunate. Only about ten percent of the men who joined this famous division are now in it. More than fifty percent were casualties in the Iwo battle alone, Maui has come to feel proud of its Marines and the Marines have come to think of Maui as home. One of the first things the division did on Iwo Jima was to name a street "Maui Avenue".

General Weather Conditions in the Park. Several days of anti-trade weather netted us more rain than we have had for a long time. Although the rainfall was at times quite heavy an inspection of Halemau-u Trail showed only one slide and no washed out sections.

The road to the Summit was covered with rocks and cinders in many places from washing but was all cleared in a couple of days.

Maximum Temperature-----66 degrees on the 10th
Minimum Temperature-----38 degrees on the 3rd and 4th
Rainfall Total-----11.22 inches
Clear Days-----14
Partly Cloudy Days-----7
Cloudy Days-----9

General Weather Conditions in Approaches to the Park. The storm during the middle of the month washed out several truck farms in the Kula District below the Park. Large boulders and trees were deposited on the Kula road. The cloud-bursts all occurred below the Park so we did not suffer any damage from the rain but the lightening was so intense over the power and telephone lines on the slope below us that the power was cut out for a week and telephone lines

have not yet been repaired. The latter became so hot that the wires were all fused together where the open wire runs into the cable at the Puu Nianiau Army Camp.

The cattle ranches on Maui are out of danger from drought. Before the rains many cattle died from lack of water causing the present meat shortage here on the island.

Equipment and Supplies. While on Oahu to get the mules for the Kilauea Section I also got six Army McLellan type riding saddles which are obsolete for Army use. I also requested the shipment of 1,000 bales of straw as supplemental feed for the mules here. The straw is from a large surplus existing on Oahu that either has to be given other government agencies or sold on bids there.

The saddles arrived this month along with 551 bales of straw. The Army Q.M. and Navy hauled all the straw up the mountain for us. The old C.C.C. kitchen and mess hall is full of straw and a large pile is on the parking area covered with canvas.

Cooperating Government Agencies. The Army is again attempting to expand their facilities both within their areas and in the Park proper. All such moves have been blocked successfully so far. A complete report on this subject is being worked up and will be sent to your office in the near future as it is too lengthy to include here.

Cooperating Non-Government Agencies. Elwood C. Zimmerman, Entomologist from the Bernice P. Bishop Museum spent several days looking for insects in the Park. He made several interesting finds among which was a new species of Pseudopsectra, a flightless lace wing. He states that the Pseudococcus sp. on Santalum forms an open gall.

I extended an invitation to Mr. Zimmerman to return to the Park and spend a month or so working on the various insects that might cause damage to some of the plants that are on the decline. I hope he can come again.

Flora. A recent inspection of the more important silversword areas in the Crater showed that there is an abundance of reproduction. The plants are in seemingly good condition and are fairly free of insect infestations.

I do not wish to be quoted outside the Park on this but it seems certain that there will be a large number of blossoms this summer. I base my opinion on the size of the central heads of the plants and on the fact that none blossomed last summer. The only other year, since I have observed these plants, that none or only a few bloomed was followed by a year with a large number of blossoms.

An inspection of a group of Sandalwood trees below the road just above 8,000 feet brought to light a number of young plants. As yet I do not know if these plants are from seed, root sprouts, or were caused by the breaking off of a larger tree some time ago. I think the group worthy of being fenced in so they cannot be destroyed by cattle or mules. This is the first reproduction I have seen of this tree.

Increase or Decrease in Travel. This month showed a little more than half the visitors than this month last year.

Although the Marines are on Maui again they are very short of transportation with which to come up the mountain. They suffered very heavy losses in equipment on their last invasion.

Police Protection. One Puu Nianiau Army Camp driver was cautioned about reckless driving in the Park. The Lieutenant in charge of the camp promised to ground the man if further action is necessary.

One U.S.E.D. driver was also cautioned and the keys to his jeep taken to the R.S. thus causing him a long walk for them when he drove his vehicle off the road and through brush while surveying.

Destruction of Exotic Animals. 96 goats were killed in the Crater this month.

Signs. The sign at the Observation Station warning people to not hike in the Crater has proved very successful. Only one party of Marines have gone into the Crater since the sign was installed and they went in along the rim before coming to the sign. Perhaps one more sign farther down the road would stop those having the urge to take off before reaching the summit.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
May 10, 1945.

MEMORANDUM for the Superintendent

Subject: Report of the Hawaiian Volcano Observatory for April, 1945:

A strong NE tilt accompanied the torrential rains of April 7-8. The N tilt recovered immediately after the rain stopped but a slight easterly tilt continued for over a week before there was a sharp recovery to the west. There were no signs of uneasiness at either Kilauea or Mauna Loa though internal pressure continued high. A total of 54 seismic disturbances were recorded at Kilauea and 32 at Mauna Loa.

Several of the cracks around Halemaumau rim showed distinct openings and none showed a closing. One crack along the Chain of Craters Road opened slightly.

The following table shows some of the data obtained during the month:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
April 8	Strong NE	28	14.50
15	Strong SSE	11	7.00
22	Slight SW	11	7.75
29	Mod. W	4	2.75

Work of R. H. Finch:

The practice of trying to show large groups through the seismograph cellar was discontinued early in the month.

Trips were made to view the flood scenes at Kapapala and to the well that is being dug at Pahala mill in company with G. A. Macdonald and G. O. Fagerlund. One day was spent in going in to an unmapped cone near the road that is being built for the proposed prison camp below Kulani Cone. Most of the material for the current Volcano Letter was prepared. Seismological routine occupied most of my time.

Work of G. C. Omer:

His regular work at the Observatory was assisting in the seismological routine, helping entertain visitors, doing some janitor work, and

regulating the Howard clock. When not occupied with routine he did some work on a portable seismograph, continued magnetic studies, and repaired the Mauna Loa seismograph time circuit.

R. H. Finch

R. H. Finch,
Volcanologist

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., Month of April, 1946

- Apr. 1 - Sun - Made the Mauna Loa seismograph run. Devised a replacement wick for the Bosch-Omorì smoking lamp. Installed this wick. Prepared the monthly Grocery list for April. Made the morning and the evening changes of the Bosch-Omorì seismograph.
- Apr. 2 - Mon - Drilled a conical hole in the Bosch-Omorì clock drive shaft so that the drum would be driven without slipping off towards the end of the run as it did previously. Made a radio time check of our standard clock. Reset and readjusted this clock. Prepared monthly job journal for Supt. Wingate. Prepared shorter versions of this job journal for Finch and for Fagerlund. Serviced Car #789. Hauled kerosene for H.V.O. Made the morning and the evening changes of the Bosch-Omorì seismograph.
- Apr. 3 - Tue - Took the travel count at the Hilo entrance during the morning. Did some work with the Bosch-Omorì driving clock. Took the K.M.C. tour through the Observatory building. Found a spring motor to use in the High-speed portable seismograph. Made the evening change of the Bosch-Omorì seismograph.
- Apr. 4 - Wed - Tried various arrangements of the spring driving motor to drive the high-speed portable seismograph. Finally arrived at a feasible design. Took the afternoon travel count at Hilo entrance. Made both morning and evening changes of the Bosch-Omorì seismograph.
- Apr. 5 - Thu - Saw Dr. Kubo for dental work on three bad cavities in my teeth. Started lathe work on parts for a driving clutch for the high-speed portable seismograph. Made the evening change of the Bosch-Omorì seismograph.
- Apr. 6 - Fri - Made a radio time check of our standard clock. Reset and readjusted this clock (attempted to get the clock to run at the proper rate through-out the month). Continued with lathe work on the driving clutch for the high-speed seismograph. Preliminary discussion and plans for a telephone line between K.M.C. and quarters #1. Made both morning and evening changes of the Bosch-Omorì seismograph.
- Apr. 7 - Sat - Made the Mauna Loa seismograph run. Made the morning change of the Bosch-Omorì seismograph.
- Apr. 8 - Sun - Made the evening change of the Bosch-Omorì seismograph.
- Apr. 9 - Mon - Did some janitor work. Prepared fixing fluid for the Bosch-Omorì cellar. Reglued rubber stamp for the Bosch-Omorì cellar. Continued with the lathe work on the driving clutch of the high-speed seismograph. Made a radio time check. Another readjustment of the clock rate. Repaired Fagerlund's office telephone. Carried over and unpacked the new cups and saucers for the Journal Club meetings. Discussed various H.V.O. projects with Dr. MacDonald. Removed N.P.S. telephone from the Volcano House Corral. Made both the morning and the evening changes of the Bosch-Omorì seismograph.
- Apr. 10 - Tue - Discussed the world seismic map and a forecoming paper with Dr. MacDonald. Carried the Hui-o-Pele book from K.M.C. to Supt.

Installed a temporary telephone in Waltjen's basement (to be removed after his house is painted). Worked with the K.M.C. telephone man on the telephone line to quarters #1. Made the morning and evening changes of the Bosch-Omori seismograph.

- Apr. 11 - Wed - Worked with the K.M.C. telephone man. Reinstalled the telephone at the Volcano House Corral. We left this line in a very good working order. Rebuilt the bell for this phone and reinstalled it. Reviewed for my talk to the Journal Club next evening. Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 12 - Thu - Continued my review for the Journal Club Talk. Gave the first half of my talk that evening on "The Universe". Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 13 - Fri - Made the Mauna Loa seismograph run. Did some janitor work in the Observatory building. Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 14 - Sat - Conference with Kim about ordering telephone parts. Ground and filed floor keys for Fagerlund. Moved chairs for Baldwin. Afternoon: off work because of national mourning for F.D.R. Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 15 - Sun - Made the Mauna Loa seismograph run. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Apr. 16 - Mon - Another dental appointment with Dr. Kubo who is trying to save two of my teeth. Talked to the Mutual Telephone Co. Hilo office, trying to find some small parts for our telephones -- no luck.
- Apr. 17 - Tue - Changed the Vertical seismograph. Made a radio time check of our standard clock. Reset it and tried again to adjust its rate to the proper value. Wrote two official letters about telephone parts. Unpacked paper for the Bosch-Omori seismograph and resupplied that cellar. Wrote letter to Sub-Cycle about telephone ringer information. Moved Valda Milne's telephone to a more convenient place in her office. Managed to do a little work on the high-speed seismograph clutch. Made the evening change of the Bosch-Omori seismograph.
- Apr. 18 - Wed - Adjusted the bell on the Observatory Shop telephone. Now this bell rings properly. Assembled the parts for the high-speed seismograph driving clutch. Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 19 - Thu - Made the Mauna Loa seismograph run. Assembled more parts of the high-speed seismograph. Resoldered part of the drive. Welded angle iron frame. Found some additional parts, etc. Made both morning and evening changes of the Bosch-Omori seismograph.
- Apr. 20 - Fri - Completed assembly of high-speed seismograph drum and drive assembly. Cut metal stock for the frame. Made both the morning and evening changes of the Bosch-Omori seismograph.
- Apr. 21 - Sat - Made the Mauna Loa seismograph run. Did some more welding of the frame for the high-speed seismograph. Made the morning change of the Bosch-Omori seismograph.

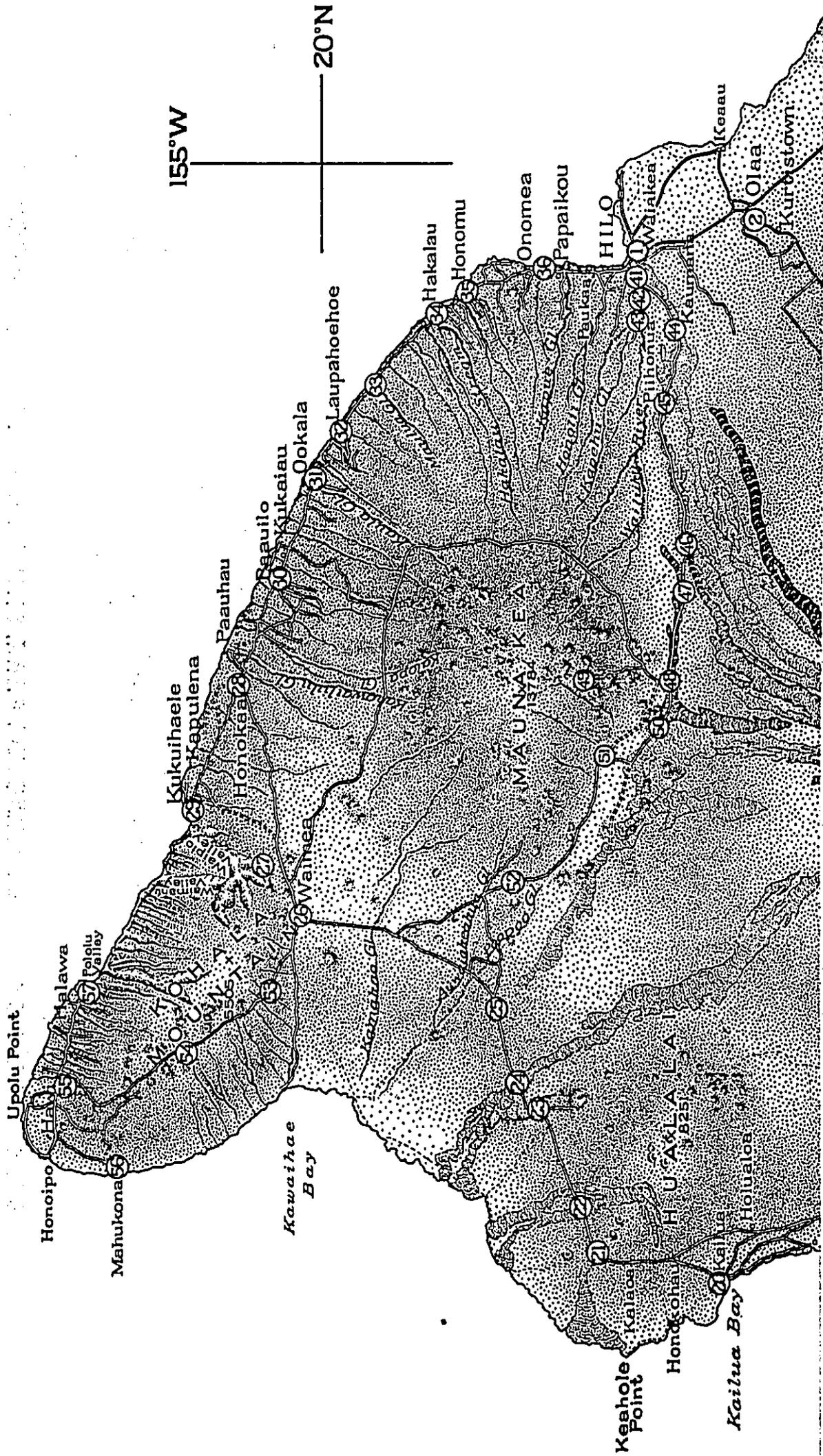
Job Journal, p[er]

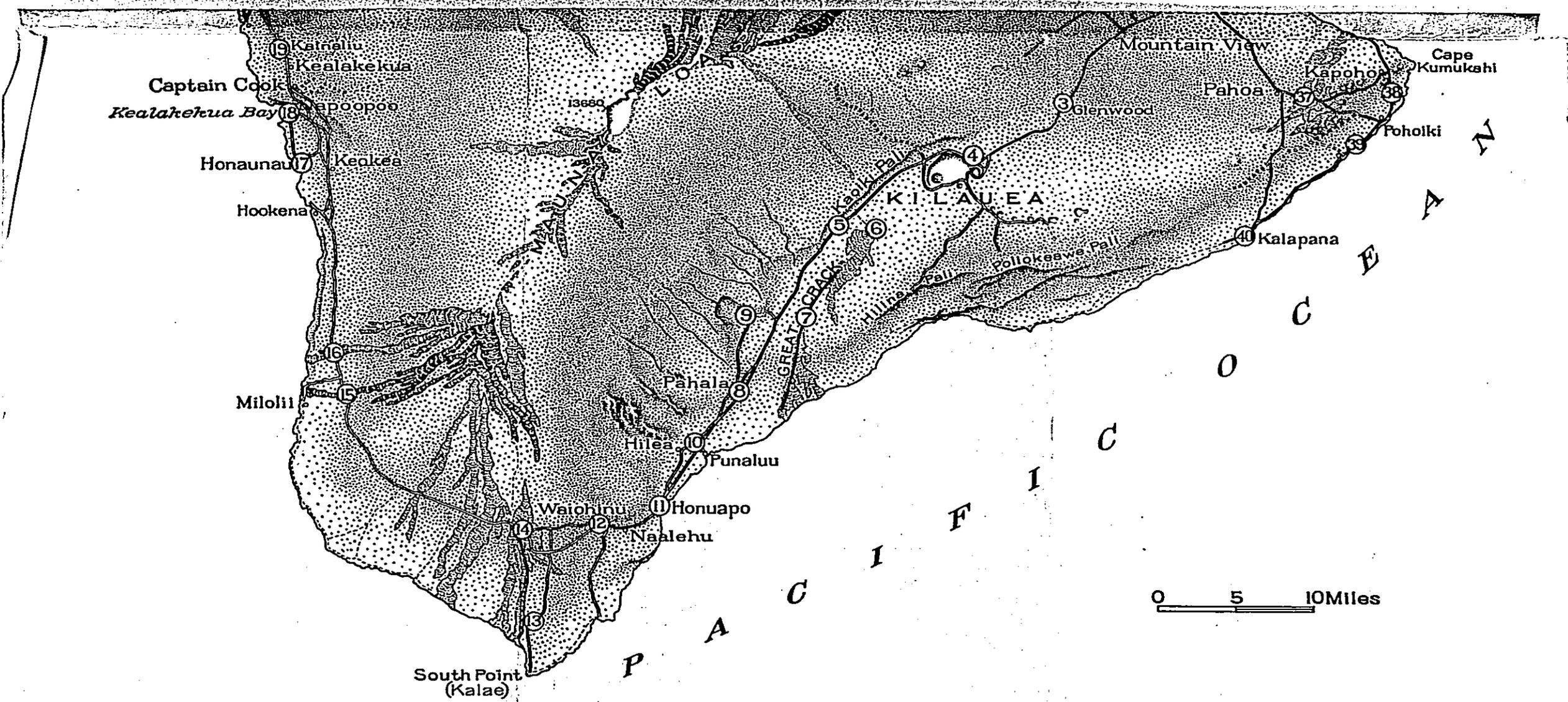
- Apr. 22 - Sun - Made the evening change of the Bosch-Omori seismograph.
- Apr. 23 - Mon - Walked the #10 telephone line from the end of the truck trail down to the lowest cattle guard. Made various electrical tests along the line. Found 3 faults in the line (pole down, wires crossed, and rotten pole just leaning over). Made the evening change of the Bosch-Omori seismograph.
- Apr. 24 - Tue - Walked the rest of the #10 telephone line, but did not find any further trouble. Wrote a memorandum to Acting Chief Ranger Davis reporting upon my findings on #10 telephone line. Carried on other official correspondence. Made the evening change of the Bosch-Omori seismograph.
- Apr. 25 - Wed - Wrote many official letters trying to find a source of supply for electric driving motors for our seismographs (our mechanical driving clocks are all wearing out -- we have no more replacement parts -- something definite must be done quickly). Started to calculate average monthly seismicity at H.V.O. from 1933 to 1936 for a story to appear in the coming Volcano Letter. Attempted a radio time check, but NFM did not transmit time that day. Made the evening change of the Bosch-Omori seismograph.
- Apr. 26 - Thu - Made a radio time check of our standard clock. Changed the vertical seismograph and read the tilt-meter. Finished calculating the monthly average seismicity. Started to make a detailed drawing to illustrate the same story in the Volcano Letter. Made both the morning and the evening change of the Bosch-Omori seismograph.
- Apr. 27 - Fri - Made the Mauna Loa seismograph trip. Reoccupied Magnetic Station B. Reconnected the simplex at 6700 ft. to put the seismograph time circuit back into operation. Spent the remainder of the day over the drafting table working on illustrations for the Volcano Letter story. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Apr. 28 - Sat - Replaced the batteries at the Bosch-Omori cellar. Readjusted the timing magnet so that it wouldn't throw the east-west stylus up into the non-recording position. Pencilled in the drawing for the Volcano Letter. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Apr. 29 - Sun - Made the Mauna Loa seismograph trip. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Apr. 30 - Mon - Picked up the last of the month's food order. Another appointment with Dr. Kubo. Saw Bill Eller. He gave us a damping magnet to use with the high-speed seismograph. Gave the second and concluding half of my Journal Club talk that evening. Made the evening change of the Bosch-Omori seismograph.

Submitted,

Guy C. Omer, Jr.
Guy C. Omer, Jr.
May 5, 1945

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PLATE 2. MAP OF THE ISLAND OF HAWAII, SHOWING POINTS OF GEOLOGICAL INTEREST.

Bulletin 9. Hawaii Division of Hydrography, 1945 (year of full-color map in Bull 9 text, 1946, in locked case.)
ROAD AROUND THE ISLAND, IN CLOCKWISE DIRECTION

1. Waiakea Estuary. Basal springs discharge 146 million gallons a day, comparable to the largest springs in the continental United States.

City of Refuge at Honaunau, with its partly restored ruins of stone temples. The ground was considered sacred, and political or military fugitives gaining its sanctuary were safe from their pursuers. It is

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1. Waiakea Estuary. Basal springs discharge 146 million gallons a day, comparable to the largest springs in the continental United States.

2. Oiaa. Location of a Maui-type well where an elevator descends 220 feet to the pump chamber at sea level. The water is pumped from the basal zone of saturation where fresh water floats on salt water because of its lesser specific gravity.

3. Glenwood. Road cuts expose 8 feet of Pahala ash overlying lavas of the Kahuku volcanic series of Mauna Loa. A mile southwest of Glenwood the highway passes from the slope of Mauna Loa to that of Kilauea. A change from Pahala ash to fresh olivine basalt with scanty ash cover indicates the boundary.

4. Hawaii National Park headquarters. For a guide to Kilauea Caldera and vicinity, see numbers 58 to 69 (on back of this sheet, locations shown on plate 3).

5. The Kaoiki Pali, parallel with the road on the northwest side, is a fault scarp in lavas of the Kahuku volcanic series, partly veneered with later lavas of the Kau volcanic series. Kahuku lavas covered with yellow Pahala ash are exposed in small kipukas along it.

6. Maunaiki. A trail leads from the highway to Maunaiki, a secondary lava cone built at the source of the flow of 1920. Northwest of Maunaiki, fossil footprints in the ash of 1790 are believed to have been made by Keoua's army, one division of which was annihilated by the explosions of 1790 (pl. 41A). Some of the ash layers contain pisolites, small mud balls formed by rain drops.

7. The Great Crack extends southwestward from Maunaiki to the sea, nearly parallel to the highway. The lava flow of 1823 was erupted along 6 miles of this crack. The lava was very fluid and flowed with great rapidity, leaving a thin sheet a few inches to 5 feet thick on the top of which are preserved many lava tree-molds.

8. Pahala. The type locality of the Pahala ash which forms the fertile cane fields here. Numerous tunnels recover water perched on ash beds in the forest above the town.

9. Wood Valley was the site of a mud flow which overwhelmed a village during the earthquakes of 1868. Soil saturated with water was shaken loose from the upper slopes of the valley and slid rapidly downhill carrying with it boulders and other debris. Sugar cane conceals the landslides.

10. Punaluu junction. A side road leads to Punaluu where springs discharge about 25 million gallons a day into the ocean from the basal zone of saturation. Similar springs also lie 1.5 miles farther southwest at Kawaa. Inland are the prominent hills of Kaumaikohu, Puu Enuhe, Kaiholena, and Puu One, high ridges of an ancient surface formed in Ninole lavas by stream erosion. The valleys between the ridges, originally much deeper, have been partly filled with later lavas (pl. 21A). Faults crossing Kaiholena Ridge, northwest of Hilea, have formed a small graben.

City of Refuge at Honaunau, with its partly restored ruins of stone temples. The ground was considered sacred, and political or military fugitives gaining its sanctuary were safe from their pursuers. It is situated on a small peninsula built into the sea by a pahoehoe lava flow. Brackish springs issue in the cove near by.

18. Napoopoo. An excellent view may be obtained of Kealakekua Bay (pl. 18B). The cliff on the northern side of the bay is believed to be a fault scarp, somewhat modified by wave erosion, exposing Kahuku lavas. The scarp extends inland in a southeasterly direction, but is heavily veneered with later lavas of the Kau volcanic series. A monument marks the place on the northwestern shore of the bay where Captain James Cook was killed in a dispute with the natives. The small patch of ground on which the monument is situated is the property of Great Britain.

19. Kainaliu. A mile to the north the lavas change from those of Mauna Loa to those of Hualalai, but the lavas are so similar, the change cannot be detected.

20. Kailua. On clear days an excellent view may be had of Hualalai Volcano and the line of cinder and spatter cones which marks its northwest rift zone. Numerous large lava tubes have been found in this area.

21. Lava flow of 1801. Half a mile below the road can be seen the source cone of the Huehue lava flow of 1801, the last flow from Hualalai Volcano. The lava extends to the sea, spreading out to a width of more than 3 miles.

22. Kaupulehu lava flow. Three miles northeast of the Huehue Ranch the highway crosses the Kaupulehu lava flow of 1800-1801. The channels of the flow are prominent, and in many places exhibit walls coated with a thin shiny veneer of late lava and lava stalactites (pl. 45B). The lava contains many gabbro and dunite inclusions brought up from depth and scarce large clear crystals of feldspar.

23. Branch road to Puu Waawaa Ranch. Puu Waawaa, 2 miles inland, is a cone of trachyte pumice, much gullied by intermittent stream erosion (pl. 44C). North of the Puu Waawaa Ranch road, the highway climbs a steep escarpment which marks the edge of a thick trachyte flow from Puu Waawaa. The edge of the trachyte is partly veneered by later thin cascades of basalt (fig. 30). The trachyte, a light gray rock, is exposed in road cuts.

24. Lava flow of 1859. The highway crosses the Mauna Loa pahoehoe flow of 1859 which extends as a black ribbon from an altitude of 11,000 feet to the sea, a distance of 32 miles. The flow lasted 7 months, extruding about 405 million cubic yards of lava, the most voluminous flow in historic time. The pahoehoe accumulated under-sea in masses of ellipsoidal bodies known as pillow lava.

25. Contact of Mauna Loa and Mauna Kea lavas. After leaving the lava flow of 1859 the highway continues for 4.5 miles over lavas of Mauna Loa. Then thick bumpy andesite aa flows of the Laupahoehoe volcanic series are seen indicating that the Mauna Kea lavas have been reached. These extend northeastward for 2.5 miles to the

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an ancient surface formed in Ninole lavas by stream erosion. The valleys between the ridges, originally much deeper, have been partly filled with later lavas (pl. 21A). Faults crossing Kaiholena Ridge, northwest of Hilea, have formed a small graben.

11. Honuapo. Kahuku lavas and Pahala ash buried by a thin cover of Kau lavas are exposed along the road west of Honuapo.

12. Waiohinu. Between Naalehu and Waiohinu the road crosses a broad kipuka covered with Pahala ash. West of Waiohinu the road climbs the face of a steep cliff from which an excellent view is obtained of the Waiohinu rotational fault which forms a black ledge running seaward. The earthquake of April 2, 1868, destroyed every building in Waiohinu and horizontal movement caused the old road crossing the Waiohinu fault to be offset about 10 feet.

13. Kahuku Pali. Near the lower end of the branch road to South Point, the top of Kahuku Pali is reached by a short walk westward. The pali is a fault scarp 500 feet high at the base of which lies a branch of the lava flow of 1868. The cliff is the type locality for the Kahuku lavas. They are capped by Pahala ash. A trail leads three miles northeast of South Point to Papakolea where wave erosion of a littoral cinder cone of the Kahuku volcanic series has resulted in a green beach composed largely of olivine sand.

14. Historic lava flows. Between 0.5 and 2.5 miles west of the South Point road the highway crosses the Mauna Loa lava flow of 1868 which issued from fissures 0.5 to 3.5 miles above the highway and flowed into the ocean. The aa lava flow of 1887 is crossed 4.5 miles west of the South Point road. It originated on the southwest rift zone 9 miles above the highway, and flowed into the ocean. West of the lava of 1887, the highway crosses the eastern branch of the lava flow of 1907. The western branch lies 3.5 miles farther west. Both branches issued from a fissure in the southwest rift of Mauna Loa 8 miles above the highway.

15. Lava flow of 1926. A mile south of the junction with the branch road to Hoopuloa and Milolii, the highway crosses the Mauna Loa aa flow of 1926 which destroyed the small fishing village of Hoopuloa (pl. 14B). Some of the Hawaiians have rebuilt their homes on the top of jagged bare lava. On its surface are prominently displayed large accretionary lava balls formed by viscous lava wrapping around solid fragments.

16. Lava flow of 1919. A mile and a half north of the junction, the highway crosses the Mauna Loa flow of 1919, which issued from a fissure in the southwest rift zone at an altitude of 7,700 feet. Explosions occurred where the lava flowed into the sea, sending great rolling clouds of steam and ash into the air, building a littoral cone, and killing numerous fish.

17. Honaunau. A short side trip leads to the ancient Hawaiian

25. Contact of Mauna Loa and Mauna Kea lavas. After leaving the lava flow of 1859 the highway continues for 4.5 miles over lavas of Mauna Loa. Then thick bumpy andesite aa flows of the Laupahoe volcanic series are seen indicating that the Mauna Kea lavas have been reached. These extend northeastward for 2.5 miles to the smoother ash-covered lavas of the Hamakua series. Numerous cinder cones are visible from the road.

26. Waimea (Kamuela Post Office). A fine view of Mauna Kea may be had on a clear day from Waimea. For 11 miles south of Waimea the highway crosses lavas of the Hamakua volcanic series of Mauna Kea, covered with Pahala ash. Just southwest of Waimea the ash has been largely swept away by the wind. The ash was derived chiefly from eruptions of Mauna Kea, with small contributions from Kohala vents. Waimea lies on a saddle formed by lavas from Mauna Kea banking against Kohala Mountain. The broad flat saddle is called Waimea Plain. Puu Pa, a cinder cone 3 miles southwest of Waimea, contains many loose, well formed crystals of augite and olivine. Some of the augites are as much as half an inch long.

27. Waima Canyon. Two and a half miles east of Waimea a side trip on foot or horseback of about 2 miles over the Upper Hamakua ditch trail takes one to the brink of spectacular Waima Canyon, 2,200 feet deep, a tributary of Waipio Valley (pl. 22). Numerous springs issue from a dike swarm in its floor. A view can be had of the northwest-trending Kawainui branch of Waipio Valley. The ditch trail continues around the head of Koiawe to the head of Kawainui Canyon.

Two miles east of the Hamakua trail the highway crosses thick andesite flows of the Laupahoe volcanic series of Mauna Kea. They are well exposed in road cuts and quarries.

28. Honokaa. Between Honokaa and Hilo the highway crosses principally Hamakua lavas with a capping of Pahala ash, and occasionally a narrow tongue of andesite of the Laupahoe volcanic series.

29. Kukuiaele. From Honokaa a paved road leads northwestward to the rim of Waipio Valley, where an excellent view of the valley and the high sea cliffs along the northeastern coast of Kohala Mountain can be had (pl. 24A). The valley was cut by stream erosion at a time when sea level was probably more than 1,000 feet lower than now. A later rise of sea level caused deposition of stream alluvium, forming the present flat valley floor (fig. 15). The great sea cliff appears to be the result of wave erosion. An excellent section of the Pololu lavas, capped by a single flow of andesite of the Hawi volcanic series, is exposed along the trail down the southeastern side of Waipio Valley. Lava from Mauna Kea spilled into the valley at Hiilawe Falls.

(Continued on other side)

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30. Paauilo. A quarry 0.75 mile northwest of Paauilo shows clearly the internal structure of an aa lava flow, with its massive center and clinker phases at top and bottom. The flow rests on a thin bed of red ashy soil. A large Maui-type well at Paauilo yields water from the basal zone of saturation for washing sugar cane before it enters the mill.

31. Ookala. A Maui-type well yields water from the basal zone of saturation. A mile southeast of Ookala is a small viscous dome of andesite, the lowest vent in the Laupahoehoe lavas. From it a thick flow of andesite advanced northeastward about half a mile.

32. Laupahoehoe. An andesite lava flow spilled into the head of Laupahoehoe Gulch and partly filled it. Where it entered the sea the flow built a small lava fan which forms the present peninsula from which the Laupahoehoe volcanic series is named. Springs issuing in road cuts just south of Laupahoehoe Gulch are perched by beds of ashy soil. The south wall of Laupahoehoe Gulch is the type locality of the Hamakua volcanic series.

33. Maulua Gulch. The valley was eroded by a stream during a time when sea level was several hundred feet lower than now. Later, a rise of sea level caused alluviation of the valley floor.

34. Hakalau. The lavas of the upper member of the Hamakua volcanic series are well exposed in road cuts along the south side of Hakalau Gulch. They include olivine basalts, picrite-basalts, and andesites.

35. Honomu. An excellent view of Mauna Kea may be had from this point on a clear day. A branch road leads to Akaka Falls, where Kolekole Stream drops 412 feet into a stream-eroded amphitheater cut into lavas of the Hamakua volcanic series.

36. Onomea Bay. The promontory forming the northern side of the bay is an old cinder cone, nearly buried by later lavas. Onomea Arch (pl. 23B) is the result of wave erosion of the cinder cone when the sea stood about 25 feet higher than at present. Kawainui Stream formerly emptied into Onomea Bay. An andesite flow of the Laupahoehoe volcanic series descended the gulch of Kawainui Stream, diverted the stream to its present course, and built a small lava fan in Onomea Bay. Benches and notches cut when the sea stood 5 feet above its present level are preserved on the andesite flow and along the edge of the cinder cone.

ROAD FROM OLAA TO KALAPANA VIA KAPOHO

37. Lava flow of 1840. The road crosses the laval flow of 1840

ROAD FROM WAIMEA TO HAWI

53. Puu Kawaiwai. A late andesite cinder cone of Kohala Mountain, well exposed by quarrying. In the vicinity of Puu Kawaiwai the road crosses basalts of the Pololu volcanic series, with a thin ash cover. Two miles northwest of Puu Kawaiwai the lavas change to andesites of the Hawi volcanic series, and the road continues over them for about 9 miles.

54. Kahua Ranch. The large cinder cones along the road were made by fountains of viscous lava of the Hawi volcanic series. The cones lie in the north rift zone of Kohala Mountain. The beautiful Kehena ditch horse trail starts near this point and leads around the head of Honokane Nui Canyon, 2,600 feet deep.

55. Hawi. The sugar cane around Hawi grows chiefly on deeply weathered Pololu lavas. The water to irrigate the fields is diverted from the great canyons and rivers to the southeast by a remarkable ditch and tunnel system 18 miles long.

56. Mahukona. In the short stretch of 7 miles from Hawi to Mahukona one passes from the windward and rainy side of the island to the leeward dry side. The fertile red-brown soil, 10 to 20 feet deep and covered with crops, thins to 2 feet or less of red soil sparsely covered with desert vegetation. The rocks along the road are the same age; the change in soil depth is due solely to decrease in rock decomposition with increase in aridity.

57. Poiolu Valley. A fine view of the valley and the high sea cliff of northeastern Kohala Mountain can be obtained. Poiolu Valley has been partly filled by a late flow of andesite (fig. 33). A side trip on foot or horseback along the Kohala ditch trail leads through rain-forest jungle to the spectacular Honokane Nui Canyon, in the head of which is a tunnel developing large quantities of ground water from a dike swarm 1,900 feet above sea level.

ROADS IN HAWAII NATIONAL PARK

58. Hawaii National Park Headquarters. From the Volcano House a fine view of Kilauea Caldera, formed by the collapse of a cylindrical block 2.5 miles long and 2 miles wide at the apex of the mountain. The walls are fault scarps. Halemaumau, the huge pit in the caldera floor, formerly contained an active lava lake (pl. 40). The whole floor of the caldera is covered with historic lava—the northern end with lava of 1919 and the southern end with lava of 1921. Since 1924, activity has been confined to lava outpourings in the bottom of Halemaumau (pl. 39). At Uwekahuna Bluff and below the Volcano House, the caldera is bounded by a series of step-fault blocks (pl. 16). Steam issues from crevices on the floor and from

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which contains many crystals of olivine. This now formed a littoral cone where it entered the sea. The next fresh flow to the southeast was erupted about 1790. At 2.5 miles east of the 1840 flow, lava tree-molds occur in prehistoric pahoehoe 50 feet north of the road. Some are 10 feet high (pl. 28B).

38. Kapoho. Kapoho Cone is a broad tuff cone made by explosions as magma rose through rocks saturated with sea water. Green Lake, which occupies its crater, is perched a few feet above sea level by silt and soil on the floor and walls of the crater. It is supplied by runoff from the surrounding slopes. Puu Kukae, a cinder cone, lies just east of Kapoho, its internal structure exposed in a quarry. Blue Grotto, a pool of water at the northern base of Puu Kukae, lies in a crevice along a fault. Formerly, the water was warm. The floor of a shallow fault trench just north of Puu Kukae was depressed 8 feet at the seaward end during the earthquakes of 1924.

39. Kaahepa Cone. A littoral cone on the seaward side of the road, formed by the explosion of aa lava on entering the sea. Maa-kaaiea Cone, 4 miles to the southwest, has a similar origin.

40. Kalapana. The village is situated in a shallow fault trench, the floor of which subsided several feet in 1868. The low ridge south of the road just southeast of Kalapana is a small horst block elevated between two faults. The low cliff facing the road is a fault scarp. The Cave of Refuge is a lava tube. The entrance was walled up and made narrower, with a right-angle bend, to protect ancient Hawaiians who took refuge there from spears and sling stones. The black sand of the beach at Kalapana is composed largely of volcanic glass derived by wave erosion from a former littoral cone. The lava flow of 1750 (?) is the fresh black aa crossed by the road just northeast of Kalapana.

ROAD FROM HILO TO WAIMEA VIA HUMUULA SADDLE WITH A SIDE TRIP TO PIHONUA

41. Halai Hill and two other small hills south of the road are ancient cinder cones on the northeast rift of Mauna Loa. These hills shielded the area now occupied by downtown Hilo from late prehistoric lava flows, thus accounting for the thick cover of ash in that area.

42. Rainbow Falls. The falls are caused by the Wailuku River cutting a large plunge pool at an unconformity (pl. 20B). Exposed in the face of the falls is the cross section of an ancient valley filled with lava from Mauna Loa. Small springs issue at the base of this lava on the south side of the falls. North of the river are lavas of Mauna Kea covered with Pahala ash.

43. Boiling pots. The Wailuku River has cut a series of large pot holes (pl. 27A), some of which are connected beneath the surface, in the ancient valley-filling lava flow exposed at Rainbow Falls (pl. 20B). The ancient valley was not entirely filled at the Boiling Pots, the top of the lava flow forming terraces 20 to 30 feet below

cracks on the north rim. The steam is largely derived from rain water which percolates to hot rock. At Sulfur Bank magmatic gases are admixed with the steam. The rocks along the cracks are decomposed by acid gases.

The Volcano Observatory, maintained by the National Park Service, keeps a constant record of changes at Kilauea and Mauna Loa. Seismographs record earthquakes and tilting of the ground surface.

59. Thurston lava tube and Twin Craters. The Thurston lava tube, opening into the side of one of the craters, was formed by the crusting over of a pahoehoe flow and the lava subsequently draining away (pl. 12B). The tube can be followed for 1,494 feet, and in places is 20 feet high and 22 feet wide. The smoothing effects of gas fluxing can be seen on the roof of the tube near the entrance.

60. Kilauea Iki. A pit crater formed by collapse along cylindrical fractures. Its walls are fault scarps. In 1832, lava broke out on the ridge between Kilauea Iki and Kilauea Caldera and cascaded into both depressions. In 1868, pahoehoe lava issued from fissures on the southwest wall of Kilauea Iki and pooled in the bottom of the crater. The congealed surface of the pool is visible from the lookout point. Molds of delicate fern leaves can be found on the under surface of some of the lava spatter near the vent.

61. Devil's Throat. A small pit crater, less than 50 feet across but 250 feet deep. The internal structure of a small cinder cone just south of Devil's Throat is revealed in road cuts. Cracks in the road both northwest and southeast of Devil's Throat resulted from recent small movements along faults. A fault which crosses the road 0.2 mile northwest of Devil's Throat offset the pavement 18 inches horizontally.

62. Alae Crater. A pit crater with scattered blocks on its west rim hurled out by a prehistoric phreatic explosion which blasted away part of a congealed lava lake on the floor. The bottom of the pit is floored with lava erupted from a fissure on the northwest wall in 1840. Other small lava flows issued at the same time on the flanks of Kane Nui o Hamo, 1½ miles to the northeast, and between Makaopuhi and Napau craters. They were followed a few days later by the main flow in eastern Puna. Half a mile east of Alae Crater lava issued in 1923 and formed a small flow just south of the present Chain of Craters Road. Charred wood and rare molds of delicate leaves still exist in the base of the lava.

63. Makaopuhi Crater. A double pit crater. The eastern pit formed by collapse and was subsequently occupied by a deep lava lake that slowly congealed. A second pit, formed at the western end of the first, exposes the congealed lava lake in cross section (pl. 14A). In 1922, lava issued from a fissure in the wall of the western pit.

64. Hilina Pali. The lookout station is at the top of a high fault cliff venerated in most places by later lava flows. The fault is one of the Hilina system along which the southern edge of Kilauea has

(pl. 20B). The ancient valley was not entirely filled at the Boiling Pots, the top of the lava flow forming terraces 20 to 30 feet below the rim of the valley.

44. Kaumana Cave. A lava tube in the flow of 1881, ranging from 2.5 to 15 feet high and 10 to 60 feet wide, can be followed for more than half a mile. This lava flow, over which the road passes near Kaumana, extends from a point above an altitude of 10,000 feet on the northeast rift of Mauna Loa to a point south of Halai Hill, a distance of 31 miles. It flowed for 9 months and came closer to Hilo than any other historic flow. In road cuts between Hilo and Kaumana Cave, late lavas from Mauna Loa rest on Pahala ash (pl. 26B).

45. Lava flow of 1855. For 9 miles the road passes over the lava flow of 1855. This eruption lasted 13 months, longer than any other historic Hawaiian flow.

46. Lava flow of 1899. It is difficult to separate this flow from the aa phase of the adjacent flow of 1855. One distinguishing mark is the less abundant vegetation.

47. Lava flow of 1935. The road follows this lava for about 8 miles. The flow is partly pahoehoe and partly aa. Along the road can be seen a good example of pahoehoe following an older aa channel. The lava flowed toward the Wailuku River, endangering Hilo's water supply.

48. Puu Huluhulu. A Mauna Kea cinder cone surrounded by Mauna Loa lava of 1935. It has been extensively quarried for road metal and the internal structure is well exposed.

49. Hale Pohaku. A side road leads to Hale Pohaku at an altitude of 9,350 feet on the southern slope of Mauna Kea where there are cabins for mountain climbers. The keys are obtained from the Forest Rangers at Hilo or Waimea. The nights are cold and snow is common; hence, warm clothing should be carried. From Hale Pohaku a 6-mile trail leads to the summit of Mauna Kea. The trail crosses lavas of the Laupahoehoe volcanic series and associated cinder cones. At 11,500 feet altitude is the terminal moraine of the small glacier which covered the summit of Mauna Kea in Pleistocene time, and above that altitude are ground moraine, roche moutonnées, and a few polished and striated rock surfaces (pl. 25A), all indicative of the former glacier. Inclusions of gabbro and peridotite are found in the summit cones and in those west of Hale Pohaku.

50. Lava flow of 1843. This thick aa flow originated from a fissure at an altitude of 10,000 feet on the northern slope of Mauna Loa. On leaving the lava, the road turns sharply northward along a row of cinder and spatter cones which apparently belong to Mauna Loa.

51. Pohakuloa Camp. The terminal moraine of the glacier is clearly visible on the slopes of Mauna Kea far above the camp as a light colored fringe of rock (pl. 48B). Near the camp and for 5 miles to the west the road passes over gravel deposits formed partly by flood stream deposition under present conditions and partly as outwash deposits from the voluminous melt-water which

cliff veneered in most places by later lava flows. The fault is one of the Hilina system along which the southern edge of Kilauea has been slipping downward and seaward (pl. 18A). Puu Kapukapu, southeast of the lookout, is capped by yellow Pahala ash.

65. Keanakakoi. A pit crater. The lava on its floor was erupted in 1877. West of Keanakakoi the road passes along a small horst block projecting into Kilauea Caldera. Being higher than the adjacent caldera floor, the horst has escaped flooding by historic lava. Thick deposits of vitric ash from lava fountains are exposed along the caldera wall southwest of Keanakakoi. Above these deposits are beds of poorly sorted ejecta and blocks from the explosions of 1790. The blocks on the floor of the caldera around Halemaumau were ejected by the phreatic explosions in 1924 (pl. 11A).

66. Halemaumau. Prior to 1924 Halemaumau was a shallow pit at the apex of a broad gently sloping dome built by overflows from the lake of liquid lava which occupied the pit. During the early part of 1924 the lava level in Halemaumau fluctuated rapidly, and on February 21 molten lava disappeared, leaving an empty fuming pit 380 feet deep. On April 22 cracking of the ground and faulting, accompanied by earthquakes, commenced in eastern Puna near Kapoho, and on April 29 the bottom of Halemaumau began to drop, accompanied by avalanches. By May 7 the pit was 700 feet deep. Explosions commenced on May 11, reached a maximum of violence on May 18, and continued with abating intensity until May 27. Blocks weighing 10 tons were thrown as much as 3,500 feet from the center of the pit. No liquid lava was ejected; the material was derived from the walls and bottom of the pit. The explosions were caused by steam, resulting from ground water entering the hot vent. When the explosions ceased, the pit was 1,335 feet deep. Since then lava has erupted several times from wall cracks in the bottom of the pit, partly filling it. In 1944, Halemaumau was 770 feet deep.

The walls of Halemaumau expose many nearly horizontal layers of lava, which are cut by several dikes that probably served as feeders for flows. Fissures in the southwestern wall mark the position of the southwest rift zone of Kilauea. Lenticular sill-like intrusive bodies also are exposed, one of which glowed when uncovered by the explosion in 1924 (pl. 41C). Halemaumau is floored with lava and remnants of cinder cones erupted since 1924 (pl. 39).

Little Beggar, near the northeastern edge of Halemaumau, is a dribble cone.

67. Southwest rift. Large open cracks on each side of the road mark the course of the southwest rift zone of Kilauea (pls. 37, 38). The brown pumice on the ground was deposited from lava fountains in Halemaumau since 1924. Coarse lithic explosion debris exposed in the cracks just below the surface was ejected during the violent explosions of 1790 (pl. 38A).

68. Uwekahuna Bluff. An excellent view of Kilauea Caldera and Halemaumau. The step-like terraces below the observation point are caused by progressive fault displacement (pl. 16).

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1790

wash deposits from the voluminous melt waters which accompanied the recession of the glacier. caused by progressive fault displacement (pl. 16)

52. Sand dunes. The road, 2 to 3 miles south of Waikii, crosses dunes of black sand, glassy volcanic ash erupted from cones on the slopes of Mauna Kea.

69. Tree molds. Well-like pits in the lava, a few inches to 3 feet in diameter, were formed by the flowing lava engulfing the trunks of trees and being chilled around them (pl. 27B). The wood was charred by the heat and has since disappeared from the mold. Many of the molds show clearly the pattern of the bark.

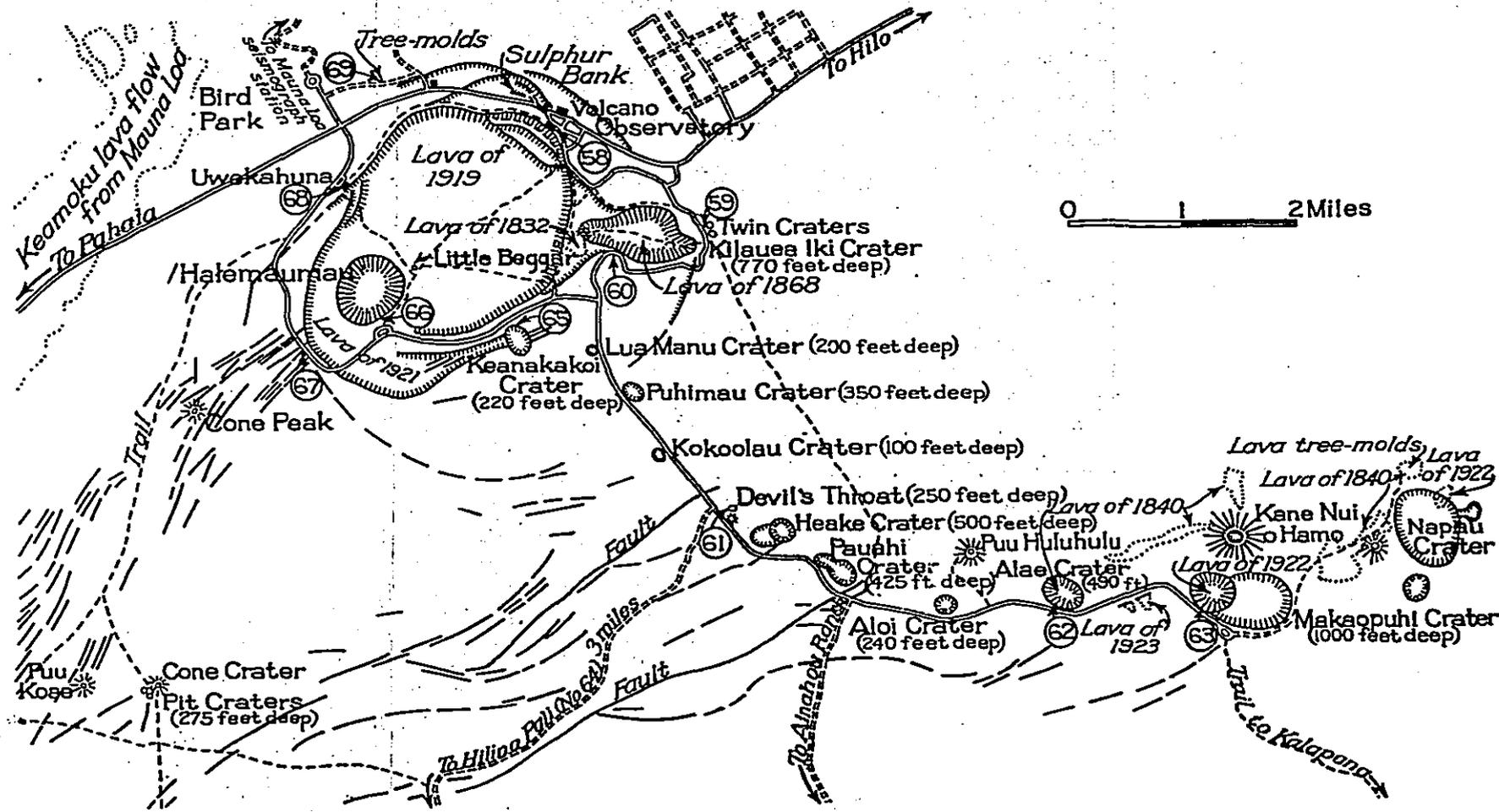


PLATE 3. MAP OF HAWAII NATIONAL PARK, SHOWING POINTS OF GEOLOGIC INTEREST.

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10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

March, 1945

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.

ARNO B. CAMMERER,
Director.

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Hawaii National Park
Hawaii, T.H.

April 12, 1945.

MEMORANDUM for the Director, National Park Service:

The following is a report of the activities at Hawaii National Park for the month of February, 1945.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 64.6° and 50.3°, and at the Haleakala Ranger Station these recordings were 37° and 74°. Rainfall at Kilauea totalled 18.58 inches and at the Haleakala Ranger Station 5.41 inches.

Snow was observed on Mauna Loa on the 5th and 6th of March. On one day it was down as far as 11,000 feet and the next at an elevation of 10,000 feet.

Superintendent's Special Activities

The superintendent was absent on sick leave from the 1st to the 26th, spending a week in the hospital in Hilo. Selective Service Board meetings were attended during the latter part of the month.

Research & Observation

The tilt records for March show that the uneasy condition of Kilauea mentioned for February continued into March. Northerly tilt, an indication of doming at Kilauea Volcano, was strong enough during the first half of the month to overcome the normal southerly tilt and show an actual accumulation to the north. During the last half of the month there was about the normal accumulation of southerly tilt; An easterly tilt that set in about the middle of February continued until March 6 when the usual westerly tilt was resumed and continued until the end of the month. This period of uneasiness coming on 2½ months after the one of November-December 1944, indicates that the possibility of surface manifestations of volcanic activity at Kilauea within the next year or so are rather good. The distribution of earthquakes indicates that Mauna Loa is sharing the uneasiness with Kilauea. Forty-one seismic disturbances were recorded at Mauna Loa and 37 at Kilauea.

Ranger Davis continued to spend some time on entomological research. He and Assignee Mitchell made a trip to Pua Mauna, Kona, from

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March 22nd to 28th inclusive, for the purpose of collecting propagating material from rare native trees. Satisfactory progress is being made on the propagating project. Assignee Mitchell is preparing a paper on the status of rare native trees in the islands. In this connection Chief Ranger Gunnar O. Fagerlund visited the Makawao and Auahi Forest Reserve areas on Maui in search of Holo (Ochroma Sandwicensis), and found the tree in the Auahi area.

Ranger Service

Aside from protection the ranger staff gave considerable time to maintenance, interpretation, and research. The painting and installing of signs was completed. A little time was spent on telephone maintenance and considerable time on fence repair.

At Haleakala, rainfall and frost caused the sliding of rocks and dirt along the road to the summit. Several days were spent in removing these slides. One large rock blocked the road for a short while. Ranger Hjort has installed a new lock system on the crater shelter houses. All houses are now on one series and master keys are issued with each permit to use the shelters. This enables visitors to use the utensils in the locked rooms of each cabin as they hike through the crater. Formerly, only the key to the house at which the party intended to stay over night was issued. This resulted in several parties breaking into other locked rooms during bad weather in order to get firewood and utensils.

Forest Protection

Two goat drives were held during the month netting a total of 76 goats. Altogether, 124 goats and 11 pigs were eliminated. The rangers took four different parties on one day goat control trips.

Some thought has been given to controlling pigs by trapping, and the Chief Ranger has instructed Rangers Medeiros and Hauanio Jr., to work on trapping when time is available.

In the Haleakala Section, a total of 77 goats and 1 pig were destroyed.

Police Protection

Four persons were apprehended on the Kauna Loa truck trail. They had allegedly been hunting on Keauhou Ranch land and had a permit for doing so. Their guns were taken from them and upon checking, it was found that their assertion that they had permission from Superintendent Wingate was correct.

In the Haleakala section, the Shore Patrol officers who stay at

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the summit each Sunday to keep the military personnel out of trouble, picked up one Willy Bernasno, CACM, Naval Air Station, Kahului, for having a gun in the Park. The results of the trial have not been learned.

Interpretation

The scheduled interpretive program consisted of 15 Auto Caravan trips with an attendance of 39, and 9 hiking trips with an attendance of 222. Nine lectures were given at the Kilauea Military Camp to a total of 443 persons, 12 at the Museum to a total of 347 persons, and 3 outside the park to a total of 2,100 persons. The three lectures given outside the park were to Boy Scouts, Girl Scouts, Girl Reserves, 4-H Clubs, Hi-Y Clubs, and Girl Scout Counsellors visiting near the park during the Easter vacation, and to servicemen at the Naval Air Station in Hilo. Kilauea Military Camp tours stopped regularly at the Observatory and Naturalist Building where half-hour informal talks were given. Service personnel on these tours totalled 539.

Twelve kodaslides were received from Sequoia-Kings Canyon National Parks. Offers to exchange kodaslides have been sent to several other parks in hope that we may be able to build up a collection of kodaslides representative of the other national parks, to be used for lectures.

Territorial Legislation Affecting the Park

Ranger Hjort, Haleakala Section, reports that a small group of politicians in the Territorial Legislature are attempting to have condemned a large section of Haleakala Ranch that borders the Park from Pun Nianian on through Koolau Gap. They claim it is needed for watershed purposes and will increase the water supply at Olinda reservoir. Haleakala Ranch owners are very upset over this. Since the plan is to uproot the native flora and to plant exotics on this land, it will eventually affect the Park. Haleakala Ranch feels it would rather have the Park own the land in Koolau Gap if they could retain the water-rights there. This is being studied by Ranger Hjort and he will submit a report at some future date.

Visitors

Mr. Head, Region I Engineer, was an overnight visitor in the park. Mr. C. E. Pemberton, Entomologist with the Hawaiian Sugar Planter's Association, Honolulu, made the acquaintance of several staff members during his stay. Leslie Ford, Saturday Evening Post writer, was also a visitor to the Park and was given special attention by the Assistant to the Superintendent.

Edward G. Fingate,
Superintendent

c.c.Originals to be sent to Director

HAWAII NATIONAL PARKS
HAWAII

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
April 7, 1945

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for March, 1945.

000 - General

Aside from protection the ranger staff gives considerable time to maintenance, interpretation and research. These are not unrelated, as might appear at first thought. The primary function viz; protection is aided immediately or ultimately by the other activities.

100 - Administration

The Chief Ranger returned from the Haleakala Section on March 5.

200 - Maintenance

The painting and installing of signs was completed, at least for the present. A little time was spent on telephone maintenance and considerably on fence repair.

400 - Interpretation

With Easter vacation during the latter part of March we were much busier than usual complying with demands on our interpretive services and facilities.

The total contacts for March were 3690 persons in 89 groups compared with 1065 in 67 groups for February. Boy Scouts, Girl Scouts, Girl Reserves, 4-H Clubs, Hi-Y Clubs and Girl Scout Counsellors visited the Park during Easter vacation. The Girl Scout Counsellors of the Territory used the Observatory and Naturalist building for conferences for two days. More than 40 Boy Scouts camped 3 days at Namakani Pao camp ground. Several groups were contacted outside the park including 40 Boy Scouts encamped at Amaula and 2000 servicemen at N.A.S. Hilo.

A small number of each of two Natural History Bulletins was mimeographed and new cover sheets were prepared and mimeographed for three bulletins. About 100 copies of the Checklist of Plants were mimeographed. Mr. Finch made a critical study of Wm. Eller's Manuscript on the park geology, and then it was mailed to Dr. G. A. MacDonald for examination. As soon as a supply of mimeographing paper becomes available a sizeable quantity of Eller's paper will be mimeographed as Natural History Bulletin No. 10.

Twelve kodasides were received from Sequoia-Kings Canyon National Parks. Offers to exchange kodasides have been sent to several other parks in hope that we may be able to build up a collection of kodasides, representative of the other national parks, to be used for lectures.

Ranger Davis continued to spend some time on entomological research. Ranger Davis and Assignee Mitchell made a trip to Puu Waawaa from March 22 to 28 inclusive for the purpose of collecting propagating material from rare trees. Satisfactory progress is being made on the propagating project. Assignee Mitchell is preparing a paper on the status of rare native trees in the Islands. In this connection the Chief Ranger visited the Makawau and Auahi areas on Maui in search of Holey (*Ochrosia Sanwicensis*) and found the tree in the Auahi area.

600 - Protection

Cattle were found in the 100 acre enclosure on Mauna Loa. They had done considerable damage to small Koa trees. Repeated nibbling by cattle will diminish the value of this enclosure for research purposes.

Ranger Davis conducted the quarterly fire and sanitation inspection. The Wilbur Carbon Tetrachloride quart size fire extinguishers should be replaced as soon as possible with either new Carbon Tetrachloride extinguishers of another make or else ~~probably~~ with Carbon dioxide extinguishers.

The fire engine was checked weekly as usual and three fire drills were held during the month.

The rangers took four different parties on one day goat hunting trips. These trips netted 20 goats. Two goat drives were held netting 76 goats. Altogether 124 goats and 11 pigs were eliminated.

Some thought has been given to controlling pigs by trapping and the Chief Ranger has instructed Rangers Medeiros and Hauanio to work on trapping when time is available.

For goat driving purposes a wing fence was built near the coral at Halape.

Road patrols were made every Sunday and occasionally at other times.

The following four persons, carrying guns, were apprehended on the Mauna Loa truck trail: Ken Padgett, C. D. Brodi, Rodny Gibson, and Gordon Cran. They had allegedly been hunting on Keauhou Ranch land and had a permit for doing so. We took their guns and checked later that their assertion that they had permission from the Superintendent to travel through the Park was correct.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Chief Ranger

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

April 3, 1945.

MEMORANDUM for the Superintendent

Monthly report of the Assistant to the Superintendent for March, 1945.

Administrative

A large amount of time was spent on the preparation of official memoranda and in handling many details connected with functioning of the park. The Project Construction Program of Major Roads was revised. The lessee cottages were inspected and plumbing fixtures needed for park buildings listed. Much lumber in the Gardiner cottage has been ruined because of rain-water seeping through the roof. The roof of the Holmes cottage, which will be saved for razing by the park, now leaks, and rapid deterioration of this cottage will occur unless the roof is fixed or the ceilings and floors are removed.

A trip on horseback was made to Apua with Commander Johnson, CASU, Hilo, to remove explosive objects from a crashed navy plane.

A speeder sent to the office by Ranger Davis was lectured and warned.

Several conferences were attended and memos prepared relative to K.M.C. affairs.

Maintenance Work

Work orders issued:

Jobs completed:

1. Remove and replace dry-rotting panel in Observatory lavatory. (B priority).
2. Clean and oil metal parts of electric stoves in vacant quarters. (B).
3. Calk roof gutter, Headquarters Bldg., (C).
4. Repair seismograph cellar steps, Hilo. (B).
5. Install water heater and stove, quarters #1. (A).
6. Cover quarters #37 roof with sheet iron. (A).
7. Assist K.M.C. to install fire place at Bird Park. (C).
8. Prune back ohia suckers and overhanging limbs from roof gutters. (B).

9. Quarters #22, repairs (B).

Jobs not completed:

1. Patch road between Headquarters and Bird Park road. (A)
2. Quarters #6, paint and repairs as listed in the memo of Feb. 15, 1944. (B)

Interpretation

Assistance was given the Chief Ranger with the interpretive programs. The Easter Vacation resulted in unusual demands for hikes and talks. The undersigned conducted the following:

Bird Talks: Mar. 3 - 3 persons attended.
" 14 - 8 " "
" 21 - 2 " "
" 27 - 60 " "
" 28 - 3 " "
" 29 - 40 " "

Astronomy talk: Mar. 30- 30 Boy Scouts "
Nature hike at Amaula: Mar. 26 - A.M. - 20 Boy Scouts
" " P.M. - 20 " "

Hikes in the park: Mar. 25 - 15 persons
" 27 - 7 "
Mauna Loa movies: " 2 - 23 "
" 4 - 15 "
" 30 - 75 "

Laysan Rail Project

Letters were written to Fleet Admiral Nimitz and to the Commander 14th Naval district requesting transportation to Midway. Governor Stainback was also written.

Visitors

Mr. Head, Region I engineer, was here overnight. C. E. Pemberton, Entomologist of the H.S.P.A., made the acquaintance of several staff members during his stay here. Leslie Ford, Saturday Evening Post writer, was taken around the park by the undersigned. She writes on national park subjects.

Miscellaneous

The January-February 1945 issue of the Condor was received containing an article entitled, The Hawaiian Goose, Its Distribution and Reduction in Numbers, by Paul H. Baldwin.

A letter written by the undersigned protesting the Kulani area as a

location for the Oahu prison farm on behalf of the Manuiki Audubon Society
was published on March 28 in the Hilo Tribune Herald.

Paul H. Baldwin

Paul H. Baldwin,
Assistant to the Superintendent

*Fagerlund G.O.F.
Part of hand volume
for monthly report
E.G.W.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HALEAKALA SECTION
HAWAII NATIONAL PARK

Wailuku, Maui
April 2, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of March, 1945 is respectfully submitted;

General Weather Conditions in the Park. The first good rainfall for some time fell this month relieving the water shortage here. All storage tanks were filled.

Maximum Temperature-----74 degrees on the 22nd and 24th

Minimum Temperature-----37 degrees on the 7th

Rainfall Total-----5.41 inches

Clear Days-----16

Partly Cloudy Days-----9

Cloudy Days-----6

Park Inspections. Chief Ranger G. O. Fagerlund returned to Headquarters this month.

Maintenance. Rainfall and frost caused the sliding of rocks and dirt along the road to the summit. Several days were spent in removing these slides. One large rock blocked the road for a short while.

Improvements. A new lock system was installed on the Crater shelter houses. All houses are now on one series and master keys are issued with each permit to use the shelters. This enables visitors to use the utensils in the locked rooms of each cabin as they hike through the Crater. Formerly only the key to the house at which the party intended to stay over night was issued. This resulted in several parties breaking into other locked rooms during bad weather in order to get fire wood and utensils.

Public Service Contractors. No notice of the signing of the lease for the concession has been received by this section.

Territorial Legislation Affecting the Park. A small group of politicians in the Territorial Legislature are attempting to condemn a large section of Haleakala Ranch that borders the Park from Puu Nianiau on through Koolau Gap. They claim it is needed for watershed purposes and will increase the water supply at Olinda reservoir. Since only a very small portion of the land lies on the Olinda side of Waikamoi stream all water would drain into the ocean near Keanae. Haleakala Ranch owners are very upset over this.

Since the plan is to uproot the native flora and to plant exotics on this land

it will eventually affect the Park. Haleakala Ranch feels it would rather have the Park own the land in Koolau Gap if they could retain the water-rights there. This is being studied and a report will be made on it sometime in the future.

Increase or Decrease in Travel. March of this year showed about a 1,000 decrease in visitors under March, 1944.

Police Protection. The Shore Patrol officers who stay at the summit each Sunday to keep the military personnel out of trouble picked up one Willy Bermesne, CAOM, Naval Air Station, Kahului, for having a gun in the Park. The results of the trial have not been learned.

Destruction of Exotic Animals. Seventy-seven goats were killed this month. One pig was killed. One mongoose was killed at Paliku.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

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

April 2, 1945.

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Monthly narrative report for March, 1945:

Public Contacts

Interpretive work carried on during the month was as follows:

Contacts

<u>Lectures</u>	<u>Date</u>	<u>No. of people</u>	<u>No. of hrs.</u>
K.M.C.	3/6/45	30	1
K.M.C.	3/9/45	50	1
Observatory	3/11/45	30	1
K.M.C.	3/13/45	60	1
K.M.C.	3/20/45	45	45 min.

Trip to Keawe Wai via Puu Oo Trail

Assignee Mitchell and I made this trip for the purpose of obtaining plant material for the nursery and to look over the large Koa trees reported in the Kulani and Puu Lalaau areas. Some plant material was obtained but we were unable to penetrate the cone areas because of inclement weather.

Entomological Research

Using the Proceedings of the Hawaiian Entomological Society, a bibliography on the insects of Hawaii National Park was compiled.

Observations and notes were made on some Koa gall material that was obtained at 6700'. Dr. Swezey, consulting Entomologist of the H.S.P.A. and authority on the moths of the Territory reports that he is not familiar with the moths reared from this Koa gall material, and states that they may be a new species.

Goat Control

On March 18, ten goats were destroyed near the end of the Mauna Loa Truck Trail. I was accompanied by four marines on this trip who accounted for most of them.

Inspection of Cattle exclusion plots

In the monthly inspection of these plots all plots were found in order except the 100 acre plot. Three cattle in this plot have caused considerable damage to the young reproduction. Assignee Mitchell, Chief Ranger Fagerlund and I attempted to locate these animals but we were unable to find them. Further repairs to the fence will be necessary.

Trip to Puu Waawaa

Assignee Mitchell and I spend several days at Puu Waawaa, leaving on March 22nd and returning on March 28th. The purpose of the trip was to gather rare plant material for the park nursery and in this we were very successful. Many cuttings and seeds were brought back. A more complete report on this trip will follow.

Nursery Project

Work on the nursery continued and on the 29th of March the following native cuttings were propagated:

30 Kokio cuttings
37 Hibiscadelphus cuttings
19 Halapepe "
5 Pittosporum sp. "
12 undetermined cuttings

The seed flats are ready and germination of the Puu Waawaa material will begin within a week.

Fire and Sanitation Inspection

The regular quarterly inspection was made on the 30th and 31st of March. (Kindly refer to report dated March 31st, 1945).

Miscellaneous activities

Travel count, patrol, checking fire equipment, Entomological Research, fire drill.

Mr. C. E. Pemberton, Executive Entomologist at the Experiment Station, H.S.P.A. was a visitor to the park on March 16th to March 19th. He reported that a serious defoliator has recently been discovered on Oahu and that it was especially fond of leguminous plants. He described the insect and suggested that we be on the look out for it. He also stated that Entomologists

would be most interested in the host records of the spittle bug in the park, and that the Hawaiian Entomological Society would publish anything that we could contribute on the subject.

Respectfully submitted,

Clifton J. Davis

Clifton J. Davis,
Park Ranger

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

April 7, 1945.

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Report of activities for the Month of March, 1945:

A large proportion of my time was spent participating in goat drives, and a little time was spent on pig control. Goat drives were performed around the Nene, Kaone, Halape, and Apua areas, and pig control in the Chain of Graters area.

A new telephone pole was installed on line #10 at the crusher. Fence repair work was done on the horse paddock at Kipuka Ohaina. A gate was installed at the half-way house horse corral.

An old corral fence was removed at Kipuka ahiu and was installed at Kaone for goat protection, when goat drives take place. A fence was also built at Kaupukaupu for the same purpose.

Recently I accompanied Mr. Baldwin and a few Navy personnel on a trip into the Apua section to check on a wrecked plane.

Time was spent repairing saddles and shoeing park horses. Two 1½" pipe nipples were installed on the fire hydrants at the Observatory building. Two signs were installed in the Uwekahuna section. Time was spent driving horses to and from the horse corral, Ainahou, and Nene.

I find that the last few miles of the Hilina Pali road are in very poor condition due to heavy rains and I suggest that some repair work be undertaken as soon as possible.

For the month of March, 1945, 76 goats were sold, 4 destroyed and 2 pigs destroyed.

A. B. Medeiros

A. B. Medeiros,
Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

HAWAII

April 4, 1945.

MEMORANDUM for the Superintendent:

Subject: Report of Hawaiian Volcano Observatory for March

The tilt records for March show that the uneasy condition of Kilauea mentioned for February continued into March. Northerly tilt, an indication of doming at Kilauea volcano, was strong enough during the first half of the month to overcome the normal southerly tilt and show an actual accumulation to the north. During the last half of the month there was about the normal accumulation of southerly tilt. An easterly tilt that set in about the middle of February continued until March 6 when the usual westerly tilt was resumed and continued until the end of the month.

This period of uneasiness coming only $2\frac{1}{2}$ months after the one of November-December 1944 indicates that the possibility of surface manifestation of volcanic activity at Kilauea within the next year or so are rather good. The distribution of earthquakes indicates that Mauna Loa is sharing the uneasiness with Kilauea.

Forty-one seismic disturbances were recorded at Mauna Loa and 37 at Kilauea.

A majority of the cracks around Halemaumau showed an opening and none showed a closing. There was no movement at any of the cracks along the Chain of Crater Road and at the Devil's Throat.

Some of the data obtained during the month are shown in the following table:

Week ended	Tilt	Seismic disturbances	Seismicity
March 4	Mod. ENE	4	1.25
11	" WNW	4	3.75
18	Slight S	8	5.75
25	" NW	7	2.50
April 1	Mod. WSW	20	10.50

Work of R. H. Finch:

The number of visitors shown through the Observatory totalled 539.

Thirty-nine people were taken up the Mauna Loa truck trail. Some more work was done on the Eller seismograph. The little flurry of uneasiness at Kilauea called for considerable more time on routine seismological measurements. The Howard clock was cleaned and oiled.

Work of G. C. Omer

He assisted with the seismological routine and in showing visitors through the Observatory. Some time was spent in checking and regulating the Howard clock. He worked some on the Hilo and Kona seismographs. The magnetic work was continued and some data secured that looks very promising. Some work was done on an extra seismograph.

R. H. Finch

R. H. Finch,
Volcanologist

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Valde
Monthly Report
Engel

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., March, 1945

- Mar. 1 - Thu - Prepared this Job Journal (Month of Feb.) for Supt. wingate. Prepared a short version for Finch. Had just returned to work after being sick, so not too active. Went over Grocery Account with Kim. Took K.M.C. Tour thru the Observatory building. Made the evening change of the Bosch-Omori Seismograph.
- Mar. 2 - Fri - Took the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph. Went to Kona in the afternoon on business for the Observatory.
- Mar. 3 - Sat - worked on the Kona seismograph. Reversed the polarity of the batteries so that the stylus would lift. Reset Clock. Adjusted the clock's hour contacts. Checked over routine with Eshleman, a new man on the job.
- Mar. 4 - Sun - Made the evening change of the Bosch-Omori seismograph.
- Mar. 5 - Mon - One of my teeth broke off. Went to Hilo to see Dr. Kubo. He placed a temporary filling and gave me an appointment in April. Made the evening change of the Bosch-Omori seismograph.
- Mar. 6 - Tue - Cleaned and swept out the Observatory building. Made a radio time check of our standard clock. Reset and readjusted the clock to attempt to get a better rate. Prepared and carried fixing fluid to the Bosch-Omori cellar. Some C.P.S. paper work (Grocery account). Checked thru the Observatory stores looking for useable parts for a portable seismograph. Evening change of Bosch-Omori seismograph.
- Mar. 7 - Wed - Turned a gun cleaning rod on the lathe for Fagerlund. Cleaned out and resorted the telephone data file for Fagerlund. Installed telephone in Quarters #1 (Shiffert). Connected the line on our main frame. Found point under house where battery wires had been cut. Connected new batteries. Adjusted ringer bells. Posted directory and fire directions. Made evening change of the Bosch-Omori seismograph
- Mar. 8 - Thu - Took the Mauna Loa seismograph trip. wrote some letters for the H.V.O. Took the K.M.C. tour thru the Observatory building. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 9 - Fri - Wrote a letter for H.V.O. Made a radio time check of our standard clock. Built a electric grill for use during our monthly seminars (Journal Club). Installed this grill on a cooking table with asbestos pads, etc. for fire protection. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 10 - Sat - Made the Mauna Loa seismograph trip. Adjusted the Mauna Loa seismograph tilt and tightened spring so that the adjustment would hold. Reoccupied Magnetic Station B. C.P.S. paper work (Grocery Account). Took the K.M.C. tour thru the Observatory building. Adjusted the optical system of the Eller seismograph. Made both morning and evening changes of the Bosch-Omori seismograph.
- March 11 - Sun - Made the evening change of the Bosch-Omori seismograph.

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E. G. Wingate, P

- Mar. 12 - Mon - Took Bosch-Omori smoking lamp apart. Trimmed wick. Made the Mauna Loa seismograph trip. Worked on one possible drive motor for portable seismograph. Had to give it up, as no replacement parts. Finch and Fagerlund gone, so kept the Observatory building open for the public. Took the K.M.C. tour thru the building. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 13 - Tue - Made a radio time check of our standard clock. Collected together some parts for the portable seismograph. Talked to Major Byrant at Finch's suggestion. Explained to Byrant our Magnetic Station program and the use of the Saddle Road for this purpose. Made arrangements for future use of this road. Talked to Bill Eller about his seismograph. Made the evening change of the Bosch-Omori seismograph.
- Mar. 14 - Wed - Cleaned and swept out the Observatory building. Finch and Fagerlund both away, so kept the building open for the public. Cleaned out my desk. Cleaned part of a seismograph element for use in the portable seismograph. Made the evening change of the Bosch-Omori seismograph.
- Mar. 15 - Thu - Reoccupied Magnetic Stations C and D. Took Travel Count at the Hilo Entrance during the afternoon. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 16 - Fri - Took the Mauna Loa seismograph trip. Took Traffic Count at the Hilo Entrance during the afternoon. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 17 - Sat - Serviced Carr 800 for use next day. Made a radio time check of our standard clock. Set the clock. C.P.S. paper work (Groceries). Reswept the seminar room to remove the food crumbs. Made permanent records of the measurements at Stations C and D. Took the K.M.C. tour thru the building. Continued to clean the seismograph element for use in the portable seismograph. Made evening change of the Bosch-Omori seismograph.
- Mar. 18 - Sun - Took the Mauna Loa seismograph trip. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 19 - Mon - Prepared and carried fixing fluid to the Bosch-Omori cellar. Made a radio time check of our standard clock. Carried a sample of our clock wire to Mr. Wonder in Hilo and placed an informal order for additional stock of it at Mrs. Finch's suggestion. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 20 - Tue - C.P.S. paper work (Groceries). Made a preliminary survey for a new telephone line to connect the Volcano House with the Volcano House Stables. Reoccupied Magnetic Station E. Took various visitors thru the Observatory building. Made the evening change of the Bosch-Omori seismograph.
- Mar. 21 - Wed - Talked to Col Vasko about a Mauna Loa trip. Called the Office of the Provost Marshall for a Cross-Island Pass (call placed thru Army lines so no charge to the Park). Talked to Fagerlund about the V. Hse. to V. Hse. Stables telephone line. Worked with the K.M.C. telephone man making a useable telephone set for use at the stables. This telephone was constructed of surveyed material (both Park and Army) hence it doesn't affect our own rather short supply of telephones. Made both the morning and the evening changes of the Bosch-Omori seismograph.

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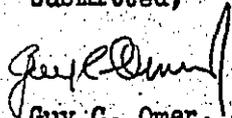
E. G. Wingate, I

- Mar. 22 - Thu - Made the Mauna Loa seismograph trip. Finished wiring the telephone for use at the Stables (V. Hse.). Worked with the K.M.C. telephone man in installing this telephone until well after 6 p.m. We used a long length of rather new Army field wire (not our property) to run the line. Connected the telephones (on private lines, not on our park lines) and found that they worked quite well. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 23 - Fri - Took Car 800 down to Hilo for repair. Reoccupied Magnetic Stations F, G, and H along the Saddle Road. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 24 - Sat - Hiked to 10,000 ft. House carrying standard transit and tripod on a pack-board so that Magnetic Station A could be reoccupied. Hiked with Col. Vasko and a Cpl. who carried my food and water. Changed the Mauna Loa seismograph while there and sent the drum down with the Army driver.
- Mar. 25 - Sun - Climbed to the top of Mauna Loa. No water in the water-holes. Slight steaming at 11,500 ft. Summit activity only normal.
- Mar. 26 - Mon - Reoccupied Magnetic Station A (on Puu Ulaula) and packed the transit and tripod downhill afterwards on pack-board. This is too heavy a load for one man even tho the others carry all of the food and water. Made the e
- Mar. 27 - Tue - Prepared a memorandum for Finch on the results of reoccupying all of the magnetic stations (a rather large magnetic change was found all around Mauna Loa which indicates a rising Magma column). Prepared a map to accompany this memo. Made a radio time check of our standard clock. Reset and readjusted this clock. Prepared a memorandum to Fagerlund about the condition of the 10,000 ft. House and of the Trail. Made both morning and evening changes of the Bosch-Omori seismograph.
- Mar. 28 - Wed - Carried over both kerosene and fixing fluid for the Bosch-Omori cellar. Worked on the high-speed portable seismograph that I am building. Was sick, so went home during the afternoon. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 29 - Thu - Made station markers for Magnetic Stations I and J. Made a replacement marker for B.M. of Station D. Re-established Station D with new replacement marker. Established new Magnetic Stations I and J South of Kilauea at Mr. Finch's suggestion. Started to clean out the Observatory building. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 30 - Fri - Made the Mauna Loa seismograph trip. Oiled the drum supports and the thread of the Mauna Loa seismograph. Finished cleaning and sweeping out the Observatory building. Made permanent records of Magnetic Stations I and J and the re-established station D. Repaired the clock drive of the Miller seismograph. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Mar. 31 - Sat - Searched all stores in Hilo for new wicks for our smoking lamps. These replacement wicks are badly needed at the Bosch-Omori cellar and at the Kona cellar. Did some cleaning and oiling of the driving clock for the Hilo seismograph. Cleaned drum support for use

E. G. Wingate, F

in the high-speed portable seismograph that I am building. This is for use during the next eruption. Made the evening charge of the Bosch-Omori seismograph.

Submitted,



Guy C. Omer, Jr.
April 2, 1945

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

FEBRUARY, 1945

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.

ARNO B. CAMMERER,
Director.

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March 12, 1945.

MEMORANDUM for the Directors

The following is a report of the activities at Hawaii National Park for the month of February, 1945:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 73° and 40°, and at the Haleakala Ranger Station were 73° and 35°. Rainfall at Kilauea totalled 3.61 inches and at the Haleakala Ranger Station 2.21 inches, continuing the winter dry spell. Snow was visible on Mauna Loa on the 27th and was down as low as the 12,000 foot elevation on the 28th. Several hikers went up Mauna Loa to experience snow in the sub-tropics.

Superintendent's Special Activities

From the 12th of February to the 21st, the Superintendent was in Honolulu attending the Annual meeting of the Hui O Pele Association. On the 27th he attended a Y.M.C.A. conference in Hilo. Selective Service Board meetings were attended at Local Board No. 1, Hilo, Hawaii.

Inspection of Proposed Park Addition

Chief Ranger Fagerlund spent several weeks at the Haleakala Section exploring the Kipahulu Valley on the east flank of Haleakala. He and Ranger Hjort successfully made the first known descent from the crater rim to the seashore through this jungle-like precipitous valley. In the lower reaches of the valley naval fliers dropped food to them by parachute. The trip was made to obtain information on the type and condition of natural features in the valley, which has been proposed as an addition to the Haleakala Section.

General Publicity

A former member of the park staff, the distinguished Dr. T. A. Jagger, was awarded the Franklin L. Burr prize of \$1,000 by the National Geographic Society. Dr. Gilbert Grosvenor, society president, announced the award was made to Dr. Jagger for his part in the development of the first "duck" or amphibian mobile boat in 1927, forerunner of the amphibian vessels which have made possible successful landings by allied forces in Europe and the South and Central Pacific.

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Army Activities in the park

Ranger Hjort reports from Haleakala that the Army Warning Service camp at Puu Nianiau has installed a new 10,000 gallon water tank along the west side of the highway and immediately south of the camp for fire protection purposes. Also received was a new fire engine. Details for the men to include the Ranger Station buildings in their fire protection plan are being worked out. A direct telephone line from the camp to the Ranger Station was installed through an existing cable to speed calls in case of fire and other emergencies.

Interpretive Services

At Kilauea the scheduled interpretive program consisted of two weekly illustrated talks at Kilauea Military Camp and one at the park lecture hall. Attendance totalled 443 persons, including 360 service personnel. One talk was given outside the park to 25 persons. Kilauea Military Camp tours stopped regularly at the Observatory and Naturalist Building where half-hour informal talks were given. Service personnel on these tours totalled 512. Two hikes were conducted with 80 persons participating.

At Haleakala the Mauna Loa 1942 eruption pictures were shown to the Lions Club of Lanai City, Lanai, to 110 persons. Comments were favorable, and some spoke of the film as the most spectacular they had ever seen.

Research & Observation

Several times during the last of January and the first of February distinct fume clouds were observed over Mokuaweewe. Twenty-two seismic disturbances were recorded at Mauna Loa and 12 at Kilauea. The tilt record gives evidence of continuing high pressure under the Kilauea-Mauna Loa volcano system, as seasonal southwesterly tilt stopped about the middle of the month and by the last of the month there was a noticeable easterly tilt. Several landslides from the Halemauau rim were noticed during the month. A large one on February 11 filled the pit with a dust cloud and sent up a cloud with definite outlines well above the Halemauau rim.

Ranger Davis reports that as a result of a contact with Dr. F. X. Williams, Entomologist of the Hawaiian Sugar Planter's Association, the park has received a complete set of the Proceedings of the Hawaiian Entomological Society and will continue to receive issues as published.

Increase or Decrease in Travel

At Kilauea travel was essentially the same as in February 1944, with 19,360 visitors in 1945 as compared with 17,963 in 1944. Military visitors dropped from 9,908 in 1944 to 8,460 in 1945, but civilians increased from 8,175 to 10,900. February travel was lower than that of preceding months and probably has reached the seasonal low.

At Haleakala travel also was the same as in February 1944, with a slight

RECEIVED AS FOLLOWS

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increase in service visitors from 1,705 in 1944 to 2,045 in 1945 and decrease in civilians from 360 to 275. The seasonal decline appears to have become much retarded or stopped.

Visitors

Lieutenant General Robert C. Richardson, Jr., visited the park.

Lt. H. B. Stephenson, naval gunnery officer and former landscape architect with the Region IV Office, spent a day and night at Kilauea.

Ranger Service

Goat drives resulted in the delivery of 330 goats to contractor R. James for which he will pay \$2.10 each. In addition, 32 goats and 15 pigs were destroyed. At the Haleakala section, seven goats were destroyed.

The ranger staff spent considerable time on painting and installing road and trail signs, telephone line repair, trail maintenance, and road patrol. The cattle enclosures on Mauna Loa were inspected and the fences repaired. Goat proof wire for boundary fence maintenance was purchased to be installed by rangers as time permits.

The park nursery was prepared for propagation of native Hawaiian trees threatened with extinction at Bird Park.

In the Haleakala section damage to natural features by hikers has necessitated restrictions on hiking. A new sign was installed at the summit reading, "No hiking allowed in the crater. Complete Park rules inside", with an arrow pointing to the Observation Station. In that building a set of park rules and regulations are framed in glass and fastened to the wall. At the observation station one plate glass window was broken and two hardwood chairs were broken up and used for firewood.

Ranger Hjort reports that the five Navy men, mentioned in our last month's report, from the Kahului Naval Air Station, were court martialled and each given ten days restriction to the base. Evidence indicated that the men were not trying to do damage but had failed to inform themselves on park rules before making the trip into the crater.

Fire Protection

A fire drill for the park staff was held on February 21, and one for the Volcano House employees was held on the 27th. A surprise drill for the park staff and K.W.C. was held on the 27th.

Personnel

Former Chief Park Ranger Joseph H. Christ, 53, died on the 23rd of this

RECEIVED AS FOLLOWS

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month following a short illness. He was a member of the staff at this park from March 1929 to January 1942, when he left the park service for war work with the U. S. Engineers.

Paul H. Baldwin,
Acting Superintendent

Orig. & 4 c's - Director
c.c. - Regional Director
c.c. - Files

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

March 7, 1945.

MEMORANDUM for the Superintendent

Subject: Chief Ranger's Narrative Report for February, 1945.

100 - Administration

The Chief Ranger spent the period from February 16, to 28 inclusive in the Haleakala section of the park.

In company with Ranger-in-charge Hjort an inspection trip was made through Kipahulu Valley February 18 to 24 inclusive. A full report on the investigation will be prepared.

200 - Maintenance

The ranger staff spent considerable time on painting and installing road and trail signs, fence repair, telephone line repair, and trail maintenance. Ranger Hauanio assisted several days with repairing the rain-damaged Hilina Pali road. The cattle exclosures on Mauna Loa are inspected monthly.

400 - Interpretation

The scheduled interpretive program for February remained unchanged - consisting of two weekly illustrated talks at Kilauea Military Camp and one at the observatory lecture hall. Kilauea Military Camp tours stopped regularly at the Observatory and Naturalist Building where half-hour informal talks were given. See the statistical report for complete data on interpretive activities.

Ranger Davis and Assignee Mitchell prepared the nursery for the rare native trees propagating project.

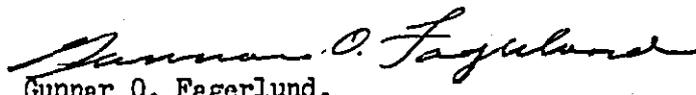
Ranger Davis reports that as a result of his contact with Dr. Williams of the H.S.P.A. the park has received 41 copies of the proceedings of the Hawaiian Entomological Society and will continue to receive the proceedings as they are published.

600 - Protection

A responsible man remained in the headquarters area continuously.

Road patrols were made every Sunday. Three fire drills were held during the month.

Three goat drives were conducted during the month in Kahue and Apua sections of the park, netting 330 goats. In addition 32 goats and 15 pigs were destroyed.


Gunnar O. Fagerlund,
Chief Ranger

c.c. - Mr. Fagerlund
c.c. - Ranger File

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

March 2, 1945.

MEMORANDUM for the Superintendent

Subject: Monthly report, Assistant to the Superintendent, February, 1945:

Administration

In the absence of the Superintendent, the undersigned was Acting Superintendent until February 22, and during the absence of Chief Ranger Fagerlund part of the month took over his responsibilities.

The matter of landscape planting was taken up with K.M.C. An inspection of the grounds showed that unauthorized and objectionable planting had been done. The camp Commander was requested to remove new exotic trees and shrubs and to use native plants in the front beds. A source of native plants was showed to the camp gardener.

The front office of the administration building was rearranged to remove unsightly accumulations.

A forthcoming booklet on K.M.C. by Nina B. Wise was reviewed and comments submitted to the Superintendent.

Work on a book plate for Hawaii National Park books was started and will be done on personal time.

The CCC camp was inspected. Objectionable signs and a barricade put up by the army were removed. One sign was left, and we agreed to and did install a sign at the road entrance to show way to the Lava Tube.

In conference with Messrs. Kim and Waltjen the work order system was revised. A, B, and C priorities will be given each job. All work orders will be reviewed at the end of the month and re-issued for the following month. The work orders together with a list of recurring monthly jobs will be posted in the Chief Clerk's office and in the gasoline house.

The park staff was warned by memorandum to refrain from touching duds and to report them. An inquiry was directed to Colonel Muller concerning presence of ammunition and guns at a crashed plane in the park.

^{AB. ph}
Lt. Stevenson, former Landscape Architect from the Region IV office was shown about the park.

Protection

The undersigned issued a warning to a speeder in the park headquarters 25 m.p.h. zone and wrote a letter to K.M.C. regarding speeding of a K.M.C. bus in the same zone.

One road patrol was made to Kau by Baldwin.

Three-hundred-thirty goats were delivered to contractor R. James. He will pay \$2.10 each.

A fire drill for the park staff was held February 21, Baldwin in charge. One for Volcano House was held February 27, Davis in charge. A surprise drill for park staff and K.M.C. truck was held February 27. Following this the fire alarm hook-up at the switchboard was reviewed, and rewritten instructions for the operator were posted at the switchboard.

Maintenance

Progress of maintenance division jobs was noted during the month and at the end of the month. The two principal projects were road repair, (A-priority), and clearing shrubbery and overhanging limbs from around houses (B-priority). Miscellaneous repair work and supply work was accomplished throughout the month. A threatening water shortage was removed by rains. Wire for boundary fence maintenance was purchased and will be installed by rangers as time permits.

Interpretive Service

The undersigned led a hike into Kilauea Iki, February 22, for 40 persons. *He showed caption movies to 23, Sun, Feb. 22.*

A discussion on a possible orientation program was had with Chief Ranger Fagerlund. Miss Nekonishi was instructed to start recording data on number and type of requests for information made at the park headquarters.

Messrs. Baldwin, Davis, and Fagerlund attended one meeting of the Toastmasters Club for speech training.

Wildlife protection and research

Instructions were received from the Regional Office to proceed with the Laysan Rail project.

Dr. Robert Hiatt, Instructor in Invertebrate Zoology at the University of Hawaii, discussed the possibility of conducting research on the marine shore fauna of this park during the coming summer.

A letter was received from the Smithsonian Institution agreeing to

identify a collection of marine shells made by the undersigned from the park shore line.

One bird count was made.

Paul H. Baldwin

Paul H. Baldwin,
Ass't to the Superintendent

c.c. - Ranger File
c.c. - Baldwin

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

March 3, 1945.

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Monthly narrative report for February, 1945:

Public Contacts

Interpretive work carried on during the month was as follows:

<u>Contacts</u>	<u>Date</u>	<u>No. of people</u>	<u>No. of hrs.</u>
<u>Lectures</u>			
K.M.C.	2/2/45	45	1 hr.
K.M.C.	2/6/45	50	1 "
"	2/9/45	50	45 min.
Observatory	2/11/45	32	1 hr.
K.M.C.	2/13/45	50	1 hr.
"	2/16/45	25	45 min.
"	2/20/45	30	45 "
"	2/23/45	30	1 hr.
Observatory	2/25/45	33	1 hr.
K.M.C.	2/27/45	30	1 "

Hikes

Bird Park 2/22/45 39 (girl scouts) 30 min.

On February 9th 1945, among those present at my lecture was General Richardson. He enjoyed the program. (Personal remarks to the undersigned).

Repairs to Cattle exclusion plots:

An inspection of the cattle exclusion plots on Mauna Loa disclosed that cattle were in the 100 acre plot and had been in some of the other plots. Considerable repairs were necessary, and with the assistance of Ranger Hau-anie these were completed on February 14th.

Nursery project

Assignee Mitchell and I began work on this project on February 16th. Before any propagating could be done it was necessary to make repairs to

the flats and platforms and to clear the nursery site of weeds and grasses. This has been completed and the green house is now ready for the propagation of rare native plants.

Goat Control

On February 28, Ranger Hauanio and I eliminated 4 out of 5 goats about a mile south of Uwekahuna.

On a recent trip to 6,700' it was discovered that goats are doing considerable damage to the young Koa between the corral and look out. It is suggested that control measures be taken in this area.

Miscellaneous activities

Travel count, patrol, checking fire equipment, clearing fallen tree from Lava Tube trail, directing volcano house fire drill on February 27th, and entomological research.

As a result of the contact between Dr. Williams, Associate Entomologist of the H.S.P.A. and the undersigned, this office received 41 copies of the Proceedings of the Hawaiian Entomological Society on February 19th. The copies date from 1905 to 1944. This is a valuable contribution to our library.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger

c.c. - Ranger File
c.c. - Mr. Davis

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

February 28, 1945.

MEMORANDUM for the Superintendent:
(Through the Chief Ranger)

Subject: Report of activities for the Month of February, 1945

Participation in goat drives took a large proportion of my time. Three drives were performed around the Kahue and Apua sections, and on three different occasions, pig control work was performed along the Chain of Craters area.

A considerable amount of time was spent on sign work, that is the painting and installing of signs.

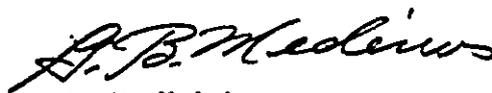
The washed out fence along the Halape and Makahanau pali was repaired as was the telephone line #10, in the bird park area.

I took some army personnel on a goat hunting trip in the Hilina and Ahiu areas.

Fence material was hauled to Kapukapu goat corral in order to build a fence wing for goat drives.

One travel count was performed at the Hilo Entrance, and a little time was spent repairing saddles.

For the month of February, 1945, a total of 330 goats were sold to Mr. J. Rogers, 19 were destroyed, and a total of 12 pigs were destroyed.



A. B. Medeiros,
Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala



Wailuku, Maui
March 6, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of February, 1945 is respectfully submitted;

The long planned trip through Kipahulu Valley was finally made this month by Chief Ranger Gunnar O. Fagerlund and myself. A complete report of this trip is being written up and will be sent over as soon as it is finished.

Weather Conditions in the Park.

Maximum Temp.-----73 degrees on the 10th
Minimum Temp.-----35 degrees on the 12th
Rainfall Total-----2.21 inches
Clear Days-----13
Partly Cloudy Days-----12
Cloudy Days-----1
Unknown-----2

Park Inspections. Chief Ranger Gunnar O. Fagerlund returned to this section for the purpose of making a field trip through Kipahulu Valley.

Public Service Contractors. No one has signed the lease for the concession on this island as yet.

Cooperating Government Agencies. The A. W. S. camp at Puu Nianiau has installed a new 10,000 gallon water tank along the west side of the highway and immediately south of the camp. This tank is for fire protection purposes. Also received was a new fire engine. Details for the men to include the Ranger Station buildings in their fire protection plan are being worked out. A direct telephone line from the camp to the Ranger Station was installed through the cable to speed calls in case of fire and other emergencies.

The Army inter-island radio telephone and teletype station at Red Hill has installed a system of clearance lights for airplanes. These lights are mounted on top of all the too numerous antenna poles and are red. They have caused a lot of local comment, including an article in the Maui News. The lights certainly do not add to the scenic value of the Park as they are visible at night from all over the isthmus as well as from within the crater. The

Commander-in-Chief Central Pacific Area has issued an order that no plane is to fly over Haleakala at less than 12,000 feet altitude so the necessity of these lights except as a beacon for lost aircraft seems questionable.

Rumors are again on the loose that the base camp at Puu Nianiau is to be enlarged to accomodate more technical personnel. The Navy is sending men to this camp to assist in the information center that controls all aircraft flights in this area.

Ranger Service. The Mauna Loa 1942 Eruption pictures were shown to the Lions Club of Lanai City, Lanai on the 27th to 110 people. The pictures were very well received in Lanai City. Many people complimented the film as being the most spectacular movie they had ever seen.

Increase or Decrease in Travel. Travel figures for February were slightly higher than for that month last year.

Police Protection. The five Navy men from Kahului Naval Air Station were court martialed and each given ten days restriction to the base. All evidence pointed to the fact that the men were not trying to do damage but had failed to inform themselves on park rules before making the trip into the crater.

Destruction of Exotic Animals. Seven goats were killed in the crater this month.

Signs. A new sign was installed at the summit that reads, "No hiking allowed in the crater. Complete Park rules inside", with an arrow pointing to the Observation Station. In that building a set of park rules and regulations are framed in glass and fastened to the wall.

Miscellaneous. Someone cracked one of the large plate glass windows at the Observation Station this month and also broke up and burned two of the hardwood chairs.

Frank A. Hjort

Frank A. Hjort
Ranger-in-Charge

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII .

March 7, 1945.

MEMORANDUM for the Superintendent:

Subject: Report of Hawaiian Volcano Observatory for February.

Several times during the last of January and the first of February distinct fume clouds were observed over Mokuaweoweo.

Twenty-two seismic disturbances were recorded at Mauna Loa and 12 at Kilauea.

The tilt record gives evidence of continuing high pressure under the Kilauea - Mauna Loa volcano system. Seasonal southwesterly tilt stopped about the middle of the month and by the last of the month there was a noticeable easterly tilt. A volcanic tilt sufficiently strong to overcome the normal southwest tilt is really a positive northeast tilt.

Several landslides from the Halemaumau rim were noticed during the month. A large one on February 11 filled the pit with a dust cloud and sent up a cloud with definite outlines well above the Halemaumau rim.

A few of the cracks around Halemaumau showed a distinct opening though the majority were stationary.

The following table shows some of the data obtained during the month:

Week ended	Tilt	Seismic disturbances	Seismicity
Feb. 4	Mod. SSW	1	0.25
11	" SW	0	0.00
18	Slight NE	3	2.75
25	Stationary	3	2.00

Work of R. H. Finch:

Fixed routine took up a large part of each day. Seismogram measurement was brought up to date. The number of visitors shown through the Observatory totalled 512. Forty-five people were taken up the Mauna Loa truck trail.

Work of G. C. Omer:

He assisted with seismological routine and in showing visitors through

the Observatory. Some time was spent on janitorial work and on radio time check. As time permitted he made preparation for magnetic studies.

R. H. Finch

R. H. Finch,
Volcanologist

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., February, 1948

- Feb. 1 - Thu - Took a radio time check of the observatory Standard clock. Discussed the Photographic Station Marker problem with Fagerlund. Suggested a particular type of marker to him which he adopted. Wrote Memo to Finch about a scientific program to be carried on during the coming eruption (copy of this memo send to you with last Job Journal - Jan.). Checked Waltjen's telephone. Established Magnetic Station "C" in the Horse Corral Area. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 2 - Fri - Made the Mauna Loa Seismograph run. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 3 - Sat - Helped handle a large group of visitors. Did some C.P.S. paper work (grocery money accounting). Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 4 - Sun - Made the Mauna Loa seismograph trip. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 5 - Mon - Prepared Job Journal for January for Supt. Wingate. Prepared an abstract of this journal for Finch. Calendar and other supplies taken to Bosch-Omori cellar. Prepared a rather long memo to Finch upon the jobs now being undertaken, the jobs scheduled for the future, etc. Made the evening change of the Bosch-Omori seismograph.
- Feb. 6 - Tue - Cleaned out the Observatory Building, swept the halls, emptied the waste baskets, etc. Inspected the best H.V.O. transit. There had been some discussion as to re-establishing the crater triangulation work and I wanted to be prepared if this project was decided upon. Made a radio time check of our Observatory Standard clock. Carried extra chairs to the Observatory seminar room for the coming monthly seminar. Made one pair of magnetic station markers for station "G". Made the evening change of the Bosch-Omori seismograph.
- Feb. 7 - Wed - Smoked the Mauna Loa record. Prepared and carried fluid to Bosch-Omori seismograph cellar. Established Magnetic Station "G" in the Glenwood Area. Made one pair of magnetic station markers for Magnetic Station "H". Helped handle a large K.M.C. tour thru the Observatory. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 8 - Thu - Made the Mauna Loa seismograph trip. Showed Dr. Blumenstad around the Observatory. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 9 - Fri - Serviced Car #800. Collected material and supplies for Saddle Road trip. Started to replot Honolulu Magnetic Observatory Data. Discussed Portable seismograph with Finch. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 10 - Sat - Left at 7:00 a.m. for Saddle Road trip. Established three Magnetic Stations (Stations "F", "G", & "H") along the Saddle Road

Supt. Wingate -

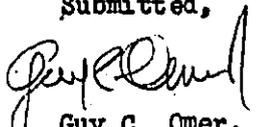
thereby completing the magnetic station program. Assisted Mitchell in collected botanical specimens and Nene droppings for Baldwin's Nene research program. Returned to Park at 8 p.m. Made the evening change of the Bosch-Omori seismograph.

- Feb. 11 - Sun - Made the evening change of the Bosch-Omori seismograph.
- Feb. 12 - Mon - Cleaned out the Observatory Building; swept out the halls; emptied wastepaper baskets; etc. Made a radio time check of the Observatory Standard Clock. Did some work over at the Hotel. Prepared a permanent record of Magnetic Stations "F", "G", & "H". Made the evening change of the Bosch-Omori seismograph.
- Feb. 13 - Tue - Continued to plot Honolulu Magnetic Observatory data. C.P.S. paper work (groceries). Made the evening change of the Bosch-Omori seismograph.
- Feb. 14 - Wed - Made the Mauna Loa seismograph trip. Took the Travel Count during the afternoon at the Hilo Entrance. Made both the morning and evening changes of the Bosch-Omori seismograph.
- Feb. 15 - Thu - Took Kerosene and fluid to the Bosch-Omori cellar. Did some preliminary work on #10 telephone line. Cut off the mauka section and restored service to the rest of the system. Serviced Car #800. Took Travel Count during the afternoon at the Hilo Entrance. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Feb. 16 - Fri - Made the Mauna Loa seismograph trip. Made both the morning and evening changes of the Bosch-Omori seismograph.
- Feb. 17 - Sat - Checked the mauka section of #10 telephone line. Found the trouble (a short) in the Old Dormitory Area. Cleared the trouble and reconnected the mauka section. All parts of #10 telephone line now operating satisfactory. Checked #14 telephone line. Could not find any trouble on it. The reported trouble seemingly is intermittent. Made arrangements with K.M.C. wire chief to jointly check this line at the next sign of trouble. Found one bad switchboard battery. Replaced it. Wrote memo to Baldwin about a traffic violation by a K.M.C. bus. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 18 - Sun - Made the Mauna Loa seismograph trip. Collected some Koa Galls for Davis. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Feb. 19 - Mon - Cleaned out the Observatory Building; swept the halls; emptied the waste-paper baskets; etc. C.P.S. paper work (grocery account). Made a radio time check of the Observatory Standard Clock. Made a Clock rate adjustment and resetting. Helped with some Observatory visitors. Continued to plot Honolulu Magnetic Observatory data. Made both the morning and evening changes of the Bosch-Omori seismograph.
- Feb. 20 - Tue - Began plotting the magnetic departures from the running means for the Honolulu Magnetic Observatory data. Plotted departures against local seismicity. Found many interesting correlations that suggest that we can use the Honolulu Magnetic data to forecast our eruptions several months ahead of time. Made both the morning and the evening changes of the Bosch-Omori seismograph.

Supt. Wingate -

- Feb. 21 - Wed - Finished curves. Added legends and injection times. Composed a letter to Patterson asking for additional Magnetic Data so that the seeming correlation could be proven or disproven. Made both the morning and the evening Bosch-Omori seismograph changes.
- Feb. 22 - Thu - Showed all of the Honolulu Magnetic Data to Finch. Discussed the material. Finch checked my letter to Patterson. Letter and material was mailed to Patterson. Made the Mauna Loa seismograph trip. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Feb. 23 - Fri - Discussed with Finch the possibility of designing and building a simple instrument to use in measuring the variation of the gravitational force since this seems to correlate with volcanic activity as well. Began attempted design of such an instrument. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 24 - Sat - Made the Mauna Loa Seismograph trip. Assisted with Observatory visitors. Further attempted design of a gravity meter. Made both morning and evening changes of the Bosch-Omori seismograph.
- Feb. 25 - Sun - Made the evening change of the Bosch-Omori seismograph.
- Feb. 26 - Mon - Cleaned up the Observatory Building; swept out the halls; emptied the waste-paper baskets; replaced some light bulbs; worked on one electric switch; etc. Some time on attempted design of gravity meter. Made the evening change of the Bosch-Omori seismograph.
- Feb. 27 - Tue - Was sick during the night. Called Finch and stayed in bed during the morning. Attempted to come to work in afternoon. Installed a new receiver in Waltjen's telephone. Felt badly. Went home and took temperature. Temperature was 101°. Stayed home in bed.
- Feb. 28 - reported for work in morning. Finch sent me home for the day. Still Sick.

Submitted,


Guy C. Omer, Jr.
March 1, 1946

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Work Report for October, 1944 through February, 1945.

For three days each week I work under the direction of Mr. Waltjen of the maintenance division, and for three days under the direction of Mr. Baldwin.

This work for Mr. Baldwin consists of studying the food habits of the Nene, the Hawaiian goose. I have just finished my work in the micro-analysis of the droppings that have been collected. The work is to identify the species of plants that the Nene has eaten by observing the seeds and other plant fragments in the droppings. 28 species of plants were identified in these droppings. I shall continue this work as more droppings are brought in from time to time. When Mr. Egerlund returns from Maui I will be working under his direction for these three days each week.

Work has begun with Mr. Davis on the project to preserve rare Hawaiian trees. We have the greenhouse and nursery in readiness now for our work in the propagation of plants by seeds and cuttings.

Mr. Finch and I continue with the rainfall recordings twice a month.

The maintenance work consists of:

Road repair - The repairing of the main highway from the Hilo entrance to the cross road at the Bird Park and Uwekahuna roads junction. Waltjen, Peleiholani and myself are now carrying on this work. Although this is a small crew I believe it to be at least as efficient in time and materials as when the crew was larger. Several days were spent in the repair of the Hilina Pali road after the heavy rain in December. These heavy rains come about once each year rendering this road impassible through erosion gullies.

Cutting and hauling firewood

House painting - The painting of the walls and ceiling of some of the rooms of two more of the park residences.

Removal of exotic plants -- The removal of the exotic plant, *Pluchea odorata*, from the old Volcano House grounds. The project of landscaping the front of the Volcano House has been discontinued because of the pressure of other work. However this area is now fairly well covered with native plants which will discourage the introduction of plants not native.

Construction of 2 water storage tanks behind the wood shed.

Participation in several goat drives.

Mowing of lawns about vacant park residences.

Arthur Mitchell

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

January, 1945

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.

ARNO B. CAMMERER,
Director.

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February 12, 1945.

MEMORANDUM for the Director:

There follows the monthly report for the month of January, 1945:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 73° and 41°, and at the Halesakala Ranger Station these recordings were 70° and 36°. Rainfall at Kilauea totalled 2.58 inches and at the Halesakala Ranger Station the rainfall totalled 0.34 inches.

Snow was visible on Mauna Loa until January 26th.

Superintendent's Special Activities

On January 5th, he gave a farewell address to a group of Selective Service Inductees, and on the 15th of January, he attended a conference in the office of Colonel LeR. Muller, Commanding Officer Hawaii District.

Selective Service Board meetings were attended throughout the month.

The superintendent was on annual leave from January 20th through the end of the month.

Interpretation

During the month a total of 15 auto caravan trips were made to Mauna Loa with an attendance of 49. Four talks were given at the museum to a total of 96 persons, three talks outside the park to a total of 275 persons, and nine talks at the Kilauea Military Camp to a total of 260 service personnel.

In the Halesakala section, the 1942 Mauna Loa eruption pictures were shown to three different service groups. Chief Ranger Fagerlund, who was on an inspection trip in this section, showed the movies to about 150 people at the district hospital at Makawao, and Ranger Hjort showed them to a small group of Marine officers at Haiku and to about 50 Javes stationed at Puunane Naval Air Station.

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Research & Observation

Following the earthquakes of the last of December, Mauna Loa continued to show signs of uneasiness with shakes on January 6th and 9th that originated near Wood Valley in Pahala. On January 22nd, there was an earthquake of moderate intensity that originated about 15 miles below the east rim of Kilauea. It was felt locally. A total of 30 earthquakes were recorded at Kilauea and 22 at Mauna Loa. There were slight openings at a majority of the cracks at Halemauau rim and along the Chain of Craters road though a few showed some closing.

Chief Ranger Gunnar O. Fagerlund has prepared a paper entitled, "Volume Changes in Kilauea Steam Vents" for publication in the Volcano Letter. He also conferred with Mr. George Armitage of the Hawaiian Service Command, on plans for preparing and publishing a trail map and guide book for the park.

On January 31st, Dr. F. X. Williams, Associate Entomologist of the Experiment Station, Hawaiian Sugar Planter's Association, accompanied Ranger O. J. Davis on an all day field trip. Forest insect conditions were observed and it was felt that much good came out of this contact.

On a return trip from the 10,000 feet elevation on the Mauna Loa Truck Trail, Ranger Davis observed two silverword plants near the trail at about 8,000 feet. He stated that both were growing well. On this same trip he saw two Kene at 6,000 feet in Kipuka Maunau.

The Director's suggestion concerning preservation of rare Hawaiian trees not native to the park by interesting the Territory in the matter was acknowledged in a memorandum for the Regional Director. Chief Ranger Fagerlund was instructed to initiate a program of propagating rare trees native to the park area as soon as possible.

Interpretation

The need for museum facilities is becoming very urgent. It is planned to install a few of the more important exhibits in the lobby of the Observatory Naturalist building. Two relief models have already been moved into the lobby. A geological exhibit and a model seismograph are needed and will be installed as soon as possible.

A meeting of the Hawaii Natural History Association, was held in the library room of the Volcano Observatory on January 6. It was the first meeting since October 1941 and several people from Hilo and elsewhere outside the park attended.

Maintenance

During the month, the rangers spent a large part of their time painting and installing road and trail signs, and repairing the Keauhou boundary fence. They also made repairs on the cattle enclosure fences.

In the Haleakala section, heavy frost above 8,000 feet made it

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necessary to spend several days removing rocks from the road.

Fire Protection

One fire drill was held for Volcano House employees under the supervision of Assistant to the Superintendent Paul Baldwin and one park drill was held.

Forest Protection

The rangers disposed of 37 goats during the month at Kilauea.

In the Haleakala section, a total of 70 goats and 5 pigs were destroyed.

Police Protection

On January 21st, an investigation was made regarding possible shooting in the Mauna Loa Truck trail area. Ranger Davis reported that a pickup operated by a Mr. Tom Lindsey, and carrying three passengers, was found coming down the hill, and that in the back of the pickup there were four hunting dogs and the carcasses of three goats. Also, a Springfield rifle was found. Upon questioning Mr. Lindsey stated that he had shot the goats on ranch property. However, since the presence of a gun and carcasses on National Park land constituted evidence, Mr. Lindsey was warned that further infractions would be a basis for prosecution.

In the Haleakala section, the Ranger-in-Charge reported that five Navy men from the Kahului Naval Air Station were arrested and turned over to the Shore Patrol for shooting in the crater, walking off the trails, and breaking into Kapalaea Cabin.

Army Use of Park

A complaint was made to Admiral Nimitz about the reputed existence of a practice bombing target near Apua Point. A conference in Colonel Muller's office was held on this and later Baldwin and Lt. Stamp made a foot trip to Apua. It was found that bombs had been dropped there, but no target was found. The navy promised to take steps to prevent accidental repetition of bombing there.

A request received from the Kilauea Military Camp to establish a new picnic area near the camp was discouraged, as there seemed no justification for further disturbing the environment there when satisfactory picnic areas are maintained slightly farther away.

Travel

In the Kilauea section, civilian visitors were estimated to total

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-4-

12,167 and military visitors 13,274 compared with 8,495 and 12,927 for January, 1944.

At Haleakala, civilian visitors were estimated to total 325 and military 2,295. For the same month last year, civilian visitors were estimated to total 225 and military 1,235.

Personal

Superintendent Edward G. Wingate, and Miss Eleanor ^{Nat} Anuha Tam Sing, were married on January 20th, 1945.

A second son, Richard Owen, was born to Assistant to the Superintendent Paul H. Baldwin and his wife on January 27.

Visitors

Navy Commander Gene Tunney, former heavyweight champion of the world, was a recent visitor at the Volcano House.

Paul H. Baldwin
Paul H. Baldwin,
Acting Superintendent

Orig. & 4 c's - Director
c.c. - Regional Director

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

February 6, 1945.

MEMORANDUM for the Superintendent

Subject: Chief Ranger's Narrative Report for January, 1945.

100 - Administration

The Chief Ranger spent the week of January 23 to 30 in the Haleakala section of the park. A sprained ankle temporarily postponed the fulfillment of a planned inspection of Kipahulu Valley with Ranger-In Charge Hjort.

200 - Maintenance

Considerable time was spent on painting and installing road and trail signs and in repairing the Keauhou boundary fence. Some repairs were made on the cattle enclosure fences also. The trail at Makahanu pali was cleaned and Rangers Davis and Hauanio leveled the water tank at Puu Ulaula and repaired the telephone line nearby.

400 - Interpretation

The interpretive services for January consisted of two weekly scheduled illustrated talks at Kilauea Military camp and one weekly at the Observatory lecture hall. Kilauea Military Camp tours stopped regularly at the observatory and naturalist building and were given half hour informal talks by staff members in that building. For complete data see statistical report.

The Chief Ranger prepared a paper entitled, "Volume Changes in Kilauea Steam Vents" for publication in the Volcano Letter.

Ranger Davis continued to spend part of his time on insect studies.

The Chief Ranger conferred with Mr. George Armitage on plans for preparing and publishing a trail map and guide book for the park.

Photographs of lava formations were taken for Dr. G. A. Macdonald of the U.S.G.S. which will be used as illustrations in a publication on the Island of Hawaii.

The need for museum facilities is becoming more urgent. In order to meet some of the requirements it is planned to install a few of the more important exhibit items in the lobby of the Observatory and Naturalist building. Two relief models have already been moved into the lobby. A geological exhibit and a model seismograph are needed and will be installed as soon as possible.

Ranger Davis reported seeing two Nene on Kipuka Mauaniu.

A meeting of the Hawaii Natural History Association was held in the library room of the Observatory Building on January 6. It was the first meeting since October 1941 and several people from Hilo and elsewhere outside the park attended. The undersigned and Mr. Chester Blacow were re-elected President and Treasurer, respectively. Miss Valda Milne was elected Secretary. Mr. Levi Lyman and R. H. Finch were elected to the Board of Directors for the one-year term and Mr. Paul Baldwin and Mr. Eugene Horner for the two-year term.

600 - Protection

A responsible man remained in the headquarters area continuously. Road patrols were made every Sunday and occasionally at other times. One patrol was made to Puu Ulaula on Mauna Loa and two were made to Halape on the shore. The proposed bi-monthly remote patrols probably will not be started until March. The goat drives afford opportunity to inspect some of the remote sections of the park. Thirty-seven goats were destroyed during the month.

One arrest for carrying firearms and circumstantial hunting was made. See Ranger Davis' report for January.

The annual Forestry and Insect reports were prepared, the fire atlas was brought up to date, and the annual report on park and saddle stock was prepared and mailed.

One fire drill was conducted for Volcano House employees by Mr. Baldwin and one park fire brigade drill was held.

900 - Miscellaneous

About 14 man days of ranger time were spent in connection with the Superintendent's wedding luau.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Chief Ranger

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

February 2, 1945

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Monthly narrative report for January 1945.

Repairs to water tank at Puu Ulaula

A trip was made to 10,000 with Ranger Hauanio for the purpose of leveling the water tank. The tank was jacked up and new blocks replaced the older ones. The telephone line near the summit of red hill was down and this was repaired.

On the return trip two silversword plants (probably *Argyroxipheum sandwicense*) were observed near the trail at about 8,000'. Both were growing well.

At 6,000' in Kipuka Maunaliu two nene suddenly flew up about 35 yards to the west of us, first flying in a southerly direction and then veering to the west until they disappeared. This was reported to Baldwin.

Continuing on down to about 5,000' Ranger Hauanio and I killed 16 goats. Four others were wounded but not recovered.

Annual Forest Insect report - 1944

(Kindly refer to report dated January 23, 1945.)

Public Contacts

Interpretive work carried on during the month was as follows:

<u>Contacts</u>	<u>date</u>	<u>No. of people</u>	<u>No. of hrs.</u>
<u>Lectures</u>			
K.M.C.	1/5/45	20	1 hr.
"	1/16/45	20	1 "
Obs.	1/22/45	22	1 "
K.M.C.	1/26/45	12	45 min.
Obs.	1/28/45	24	1 hr.
K.M.C.	1/30/45	30	45 min.

Violations

On the 21st of January after returning from Patrol I was directed by Baldwin to proceed to the Mauna Loa Truck Trail to apprehend, if necessary, people that had been reported shooting in that area. Just after leaving the gate entrance, I met a pick up operated by Tom Lindsey, and carrying three passengers coming down the hill. In the back of the pick up were four hunting dogs and the carcasses of three goats. A Springfield rifle was also present in the car. Upon being questioned, Mr. Lindsey stated that he had shot the goats on ranch property. Since the presence of a gun and carcasses on National Park land constituted evidence Mr. Lindsey was so informed in a formal letter, and warned that any further infractions would be a basis for prosecution.

Miscellaneous activities

Travel count, fire drill, research, patrol, checking fire equipment, Journal Club talk, and cutting fence posts for cattle exclusion plots.

On January 31, Dr. F. K. Williams, Associate Entomologist of the Experiment Station, H.S.P.A. accompanied the undersigned on an all day field trip. Forest insect conditions were observed, and it is felt that much good came out of this contact.

Respectfully submitted,

Clifton J. Davis

Clifton J. Davis,
Park Ranger

c.c. - Davis
c.c. - Ranger Files
c.c. - Park Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

HAWAII

February 10, 1945.

MEMORANDUM for the Superintendent:

There follows the monthly report of the Assistant to the Superintendent for January, 1945:

Special - Wildlife

Responses were received to the Superintendent's memorandum of December 16, recommending that action be taken to save the Laysan Rail. The Fish and Wildlife Service agreed to bear incidental expenses for a federal employee to undertake the project. At present we are awaiting instructions from the Regional Director and continuing inquiry concerning the situation locally. ✓

Administration

From January 20 through the 31st, the undersigned was designated Acting Superintendent. During this period the preparation of various memoranda for the Chicago Office, the Regional Office and for local destinations occupied practically all his time.

A report on Hawaii National Park boundaries regarding their appropriateness or inappropriateness was written.

Mrs. Maude Beers was requested to remove personal belongings from the cottage covered by Special Use Permit No. 1-6p-24, which expired December 31.

In answer to a request from the Interior Department for news pictures, it was pointed out that the only activity of broad news interest likely to take place is volcanic eruptions of Kilauea and Mauna Loa. It was requested that advance approval be given for the obligation of funds from the Director's Office for commercially prepared 8 x 10 photographic prints and duplicate negatives from eruption pictures taken by staff members.

A complaint was made to Admiral Nimitz about the reputed existence of a practice bombing target near Apua Point. A conference in Colonel Muller's office was held on this and later Baldwin and Lt. Stamp made a foot trip to Apua. It was found that bombs had been dropped there, but no target was found. The navy promised to take steps to prevent accidental repetition of bombing there.

A request received from K.M.C. to establish a new picnic area near the camp was discouraged, as there seemed no justification for further disturbing the environment there when satisfactory picnic areas are maintained slightly farther away.

The Director's suggestion concerning preservation of rare Hawaiian trees not native to the park by interesting the Territory in the matter was acknowledged in a memorandum for the Regional Director. Chief Ranger Fagerlund was instructed to initiate a program of propagating rare trees native to the park area as soon as possible.

Reports submitted through this office during January were (1) Annual Forestry Report by Chief Ranger Fagerlund, including the Annual Forest Insect Report by Ranger Davis, (2) Grazing of Pack and Saddle Stock, (3) Grazing of Domestic Stock, (4) Fire Atlas.

Protection

The siren was tested on January 25. The undersigned cooperated in the fire drill program.

Assistance was given a Naval rescue party who went to the flats of Keauhou to get a flier who had parachuted down.

Interpretation

Two lectures were given at K.M.C. and one at the Observatory to a total of 81 persons.

By way of training for interpretive work it was decided to start attendance once a month at the Toastmaster's Club. Mr. Fagerlund attended one meeting, and Baldwin and Davis will attend in the future.

Personal

A second son, Richard Owen, was born to the undersigned and his wife on January 27.

Paul H. Baldwin
Paul H. Baldwin,
Acting Superintendent

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

February 5, 1945.

MEMORANDUM for the Superintendent
(Through the Chief Ranger)

Subject: Report of Activities for the Month of January, 1944:

A considerable amount of time was spent painting and installing new signs, and replacing worn ones. A large proportion of time was spent repairing the fence along the Keauhou and park boundary line.

Two patrol tours were made to the Halape shoreline. One covered the crater rim road, one the Chain of Craters, Mamalahoa, and bird park roads. A patrol was also made covering the crater rim trail and the croquette trail along the Chain of Craters.

Some time was spent clearing the trail on Pale makahanau. A little time was spent clearing around signs and fire hydrants. Office duty was performed.

Horses were driven from the six tanks area to the horse corral for shoeing.

I participated in one goat drive which covered the Apua and Kahue areas.

A. B. Medeiros

A. B. Medeiros,
Ranger

c.c. - Medeiros
c.c. - Ranger File
c.c. - Park File

RECEIVED AS FOLLOWS

February 3, 1945

MEMORANDUM: To the Superintendent
through the chief Ranger;
SUBJECT: Daily report for the month of January;

Jobs which were done in the month of January, painting all signs which were needed to be replaced, and checking telephone lines at Inahou section.

January, 8 horses were taken up to 6500 preparing to make a trip to 10000. Trip was made up to 10000 the following day accompanied by Ranger Davis and Doc, Omer, this trip was made purposely to raise up water tank, and also cleaning around shelter.

We spent one night there, and returned the next day to 6500; horses were left there till the following day. Ranger Davis and myself brought them back to the stables.

On returning our horses back to the stables, 22 goat's were destroyed on the km section of 6500 stables.

January 17, Ranger Medeiros, Pale, Benjamin, Fugi, and myself made a fishing trip to Halape, preparing for Mr. Wingate's wedding luncheon, we camped there two nights.

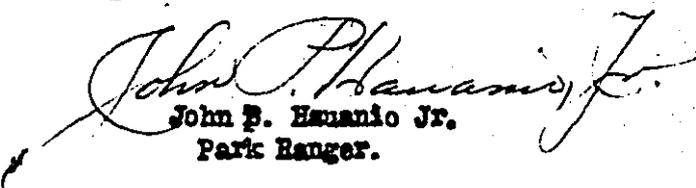
Wedding luncheon was given on the 20 of January, down at the American legion hall, Milo; every thing all check.

January 24, Ranger Medeiros and myself made another trip to Halape, while seeing that Makahanan trail needs cleaning, rocks was all cleaned out from trail, from top to bottom of pali.

Water tank were also taken out to be fixed, another job was fixing boundary line fence, where water had washed out. While returning on this trips, 4 goats were destroyed.

Goat Control was also performed on one Sunday, accompanied by John Hamano Sr, on this day 8 goats were destroyed, in between Kipuka Neme, and Hilina Pali.

For the Month of January, 1945, 41 goat's
destroyed, including 7 goats from Kipuka ki
while checking fence line.


John B. Hamano Jr.
Park Ranger.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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HAWAII NATIONAL PARK
HAWAII
Haleakala



Wailuku, Maui
January 31, 1945

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of January, 1945 is respectfully submitted;

The most important event here this month was the hiring of Mrs. Hjort as a park warden. Lack of help has been a serious handicap.

The Marines left the island some time during the month. Their departure was very noticeable in the decrease in park visitors.

Weather Conditions in the Park.

Maximum Temp.	-----70 degrees on the 24th
Minimum Temp.	-----36 degrees on the 22nd
Rainfall Total	-----0.34 inches
Clear Days	-----24
Partly Cloudy Days	-----6
Cloudy Days	-----1

Park Inspections. Chief Ranger G. O. Fagerlund arrived on Maui on the 22nd and spent several days here. Due to an ankle injury he returned to Kilauea but he expects to come back to Maui soon.

Maintenance. Heavy frost above 8,000 feet made it necessary to spend several days this month removing the rocks from the road.

Public Service Contractors. Since no word has reached this section of the Park as to whether the Maui Grand Hotel has signed a new lease on the concession it is not known if there is a concessioner for this section.

Cooperating Governmental Agencies. The Army Service Command has moved into the area on Red Hill. As far as is known the voice and teletype channels to the other islands are now working properly.

A set of Park rules and regulations was posted this month in both Army areas within the Park.

Ranger Service. The 1942 Mauna Loa eruption pictures were shown to three different service groups this month. Chief Ranger G. O. Fagerlund showed them to about 150 people at the district hospital at Makawao. I showed them to a small group of Marine officers at Haiku and to about 50 Waves stationed at Puunene Naval Air Station.

Increase or Decrease in Travel. Travel figures fell off this month due to the departure from the island of so many service men. This month was more than double January, 1944 figures.

Police Protection. Five Navy men from Kahului Naval Air Station were arrested and turned over to the Shore Patrol for shooting in the Crater, walking off the trails, and breaking into Kapalaoa Cabin.

Destruction of Exotic Animals. 70 goats and 5 pigs were killed this month.

Sanitation. The toilets at the summit observatory were painted white and given a thorough cleaning.

Frank A. Hjort

Frank A. Hjort
Ranger-in-Charge

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

February 6, 1945.

MEMORANDUM for the Superintendent:

Report of Hawaiian Volcano Observatory for January, 1945:

Following the earthquakes of the last of December, Mauna Loa continued to show signs of uneasiness with shakes on January 6 and 9 that originated near good valley. On January 22 there was an earthquake of moderate intensity that originated about 15 miles below the east rim of Kilauea. It was felt locally.

A total of 30 earthquakes were recorded at Kilauea and 22 at Mauna Loa.

There were slight openings at a majority of the cracks at Halemau-mau rim and along the Chain of Craters Road though a few showed some closing.

The seasonal westerly tilt which started on December 29 continued throughout the month. The north-south tilt curve was nearly flat until January 23 when seasonal southerly tilt set in.

The following table shows some of the data collected in January:

Week ended	Tilt	Seismic disturbances	Seismicity
7	Mod. SW	8	3.00
14	Slight NNW	5	3.75
21	Slight S	8	2.00
28	Slight W	9	5.00

Work of R. H. Finch:

The manuscript of a Volcano Letter was sent to the editor. Work was started on another Volcano Letter. The influx of visitors - 510 during the month - was quite a burden on some days.

Work of G. C. Omer:

In addition to helping out with seismological routine, checking

the contact clock, doing some janitorial work at the Observatory, and assisting in handling visitors, he gave a talk at the Hilo Rotary Club and continued magnetic work as time permitted.

R. H. Finch

R. H. Finch,
Volcanologist

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., January, 1945

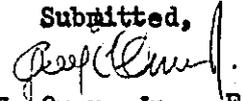
- Jan. 1 - Mon - Reconnected all elements of #10 telephone line. This line is now once more operating properly. All telephones are operating properly. The seismograph time circuit for the Bosch-Omori and the Mauna Loa seismographs are again operating properly. Made the evening change of the Bosch-Omori seismograph.
- Jan. 2 - Tue - Janitorial work in the Observatory Building. Made a radio time check of our standard clock. Extended the clock rate chart for 1945. Brought the plotting of the clock rate chart up to date. Prepared my Job Journal for December, 1944. Prepared a memorandum for Finch. Made the evening change of the Bosch-Omori seismograph.
- Jan. 3 - Wed - Carried a new supply of record fixing solution to the Hilo seismograph station. Made small adjustments on Hilo seismograph station clock. Adjusted the Hilo seismograph styli for magnetic pick-up. Other minor adjustment of the Hilo seismograph. Made the evening change of the Bosch-Omori seismograph.
- Jan. 4 - Thu - Did some plane-table work for Fagerlund (locating four of his photographic stations). Made morning and evening changes of the Bosch-Omori seismograph.
- Jan. 5 - Fri - Made the Mauna Loa seismograph trip. Completed the plane-table survey for Fagerlund. Adjusted the bubble-levels on the Berger transit. Made the morning and evening changes of the Bosch-Omori seismograph.
- Jan. 6 - Sat - Made a radio time check of our standard clock. Checked all other adjustments of the Berger transit. I found this instrument to be in good over-all adjustment upon test. The cross-hairs are properly orthogonal. They move uniformly across a given point when the transit is turned in vertical or horizontal planes. I found no scale error when reading the A or the B verniers. I found that the scales repeated when the telescope was reversed. I found the horizontal and the vertical axes of the transit to be properly orthogonal. I found that the magnetic needle is bent slightly. I have made no attempt to straighten the magnetic needle since this is a delicate operation and I am afraid that I might harm the instrument in attempting to correct it. I made the morning and the evening changes of the Bosch-Omori seismograph.
- Jan. 7 - Sun - Made the Mauna Loa seismograph trip. I worked on the Mauna Loa driving clock by dismounting it and attempting to clean it at the cellar. I assembled one set of marking stakes for a magnetic station. I made the morning and evening changes of the Bosch-Omori seismograph.
- Jan. 8 - Mon - I collected provisions for the trip to 10,000 ft. Rest House. I calculated and prepared a table of astronomical data to determine azimuth for the magnetic station at 10,000 ft. I made the evening change of the Bosch-Omori seismograph.
- Jan. 9 - Tue - Janitorial work in the Observatory Building. I made a radio time check of our standard clock. I worked on Fagerlund's office telephone. I spent considerable time in discussing with Fagerlund the problems of locating his photographic stations. I made three more pairs of stakes to mark magnetic stations. I made the evening change of the Bosch-Omori seismograph.

- Jan. 10 - Wed - I ascended to the 10,000 ft. Rest House with Davis and Haunio, Jr. I established magnetic station "A" in this area and began the necessary surveying to "shoot it in".
- Jan. 11 - Thu - Completed surveying and azimuth shots at magnetic station "A". Hiked down to truck from 10,000 ft. House. Made the evening change of the Bosch-Omori seismograph.
- Jan. 12 - Fri - Made a radio time check of our standard clock. Further work with Fagerlund on his surveying and more discussion as to procedure. Constructed an additional weight for the Mauna Loa driving clock. Made an adjustment on our standard clock. Made both morning and evening changes of the Bosch-Omori seismograph.
- Jan. 13 - Sat - Made the Mauna Loa seismograph trip. Found that the driving clock was still giving trouble. Removed this clock and brought it down to the Observatory where I was able to work on it with all available tools. Corrected this clock and set it going for a test run. Did some CPS paper work. Made both the morning and evening changes of the Bosch-Omori seismograph.
- Jan. 14 - Sun - made the evening change of the Bosch-Omori seismograph.
- Jan. 15 - Mon - Janitorial work in the Observatory Building. Did some official correspondence. Made a radio time check of our standard clock. Made a check of the Hilo seismograph. Made the evening change of the Bosch-Omori seismograph.
- Jan. 16 - Tue - CPS paper work (food requisitions). Copied and plotted magnetic data for the Honolulu Magnetic Observatory. Wrote to Ratterson for additional data and returned his record book to him. Discussed these results with Finch (seemingly positive correlations with local volcanic activity). Made the evening change of the Bosch-Omori seismograph.
- Jan. 17 - Wed - Began preparations for Rotarian Speech. Made the evening change of the Bosch-Omori seismograph.
- Jan. 18 - Thu - Made a radio time check of our standard clock. Prepared fixing fluid for the Bosch-Omori seismograph. Replenished the Bosch-Omori station with both fluid and with paper. Further work on the Rotarian Speech. Made both the morning and the evening changes of the Bosch-Omori seismograph.
- Jan. 19 - Fri - Made the Mauna Loa seismograph trip. Selected pictures to illustrate the Rotarian Speech. Made both morning and evening changes of the Bosch-Omori seismograph.
- Jan. 20 - Sat - Started a program of photography to produce a series of lantern slides for the Rotarian Speech. I have had no experience in this field so I had to learn all the necessary tricks by some very trying trials and errors. The film and lantern slide stock on hand was very old and subject to fogging. No photoelectric light meter was available for this work, hence all exposures had to be made many times to finally obtain a satisfactory one. This work took many days and nights and gave me a great deal of practical experience -- but was disheartening when the final results were viewed with regard to the time put in on the project. Made both morning and evening changes of the Bosch-Omori seismograph.
- Jan. 21 - Sun - Made the Mauna Loa seismograph trip. Further photography that night. Made both morning and evening changes of the Bosch-Omori seismograph.

- Jan. 22 - Mon - Worked on the Bird Park telephone. I found both the knife switch and the hook switch to be defective. Both of these were disassembled and repaired (both will have to be replaced eventually). Had a report of trouble on the Haunio Jr. telephone. Could not find anything defective. Moreover the telephone operated correctly when calling in to the switchboard. More photographic work until midnight. Made the evening change of the Bosch-Omori seismograph.
- Jan. 23 - Tue - Spent complete day trying to get some decent lantern slides. Worked with new negatives, additional lantern plates, variations in developing procedures, etc. until midnight. Made the evening change of the Bosch-Omori seismograph.
- Jan. 24 - Wed - Took Traffic Count at the Hilo Entrance from 1:00 p.m. until 5 p.m. The morning, remainder of the afternoon, and the evening until 10 p.m. was spent in attempts to produce good lantern slides as per the preceding. Made the evening change of the Bosch-Omori seismograph.
- Jan. 25 - Thu - Took the Traffic Count at the Hilo Entrance from 12:30 p.m. to 5 p.m. The morning, remainder of afternoon, and most of the night was spent in binding the produced lantern slides (not perfect slides, but finally obtained some useable ones) and in final preparation of the Rotarian Speech. Made both morning and evening changes of the Bosch-Omori seismograph.
- Jan. 26 - Fri - Spoke before the Rotarians at their luncheon. Mr. Finch projected the slides. Helped Mr. Finch move some furniture to his Hilo house. Carried up boxes of groceries for nearly all Park families in the truck. Made the evening change of the Bosch-Omori seismograph.
- Jan. 27 - Sat - Made the Mauna Loa seismograph trip. Establish magnetic station "B" in the Mauna Loa seismograph cellar area. Made the morning change of the Bosch-Omori seismograph.
- Jan. 28 - Sun - made the evening change of the Bosch-Omori seismograph.
- Jan. 29 - Mon - Janitorial work in the Observatory Building. Made a radio time check of our standard clock. Did some GPS paper work. Prepared a memorandum for Baldwin about the condition of the Bird Park spur-line and telephone and about the Haunio Jr. telephone. Made the evening change of the Bosch-Omori seismograph.
- Jan. 30 - Tue - Established magnetic station "D" in the Kau District along an ironwood grove. Manufactured two new sets of marking stakes for magnetic stations. Made the evening change of the Bosch-Omori seismograph.
- Jan. 31 - Wed - Seismograph study and beginning of a design for a portable seismograph to be used in the next eruption. Received additional magnetic data from Honolulu. Plotted this material and discussed it with Finch. Made a permanent orderly record of magnetic stations established so far. Made the evening change of the Bosch-Omori seismograph.

Note -- I am attaching a memorandum that I prepared for Finch which outlines the work program that I am following in attempting to prepare for the next eruption. This might interest you, and it will certainly explain many projects which you have found listed in this Job Journal for January.

Submitted,


Guy C. Omer, Jr. - Feb. 5, 1945

RECEIVED AS FOLLOWS

Memorandum: to Mr. R. H. Finch, Volcanologist, Hawaiian Volcano Observatory

Subject: Proposed Eruption Program

Since from the evidence of the seismic sequence beginning with the deep earthquakes under Mauna Loa in December, 1944, and from the general cyclic history of Mauna Loa eruptions, we might well expect a Mauna Loa eruption in 1945, it seems well at this time to start making preparations for activity. G. O. Fagerlund will be prepared upon rather short notice to make a photographic history of the eruption. We are prepared to carry forward the usual activities of recording its seismic and volcanic history, watching to see if the flow would endanger Hilo or its water supply, and of determining the topographic changes that have taken place from the flow. In addition to these usual activities, the next eruption would be an excellent opportunity to add to that body of data which the Observatory has been collecting since its inception for further light upon the general mechanism of volcanism. The collection of this data requires previous instrumental preparation, and it is with this beforehand preparation that this memorandum is concerned.

1. Spectrographic program. The Observatory acquired a spectrograph in 1940 under the direction of Dr. S. S. Ballard. This instrument was to be used to make a study of the hot gases released at the point of eruption. It is an instrument of wide range, but rather low dispersion. It can be used to identify the gases present (by identifying the lines present in the spectra), can be used to roughly establish the temperature of the gases (by a study of the lines that appear and of those of the same series that are not found upon the plates), and can be used even more roughly to determine the relative percentages of these gases in the mixture (by a study of the relative strength of the lines). An instrument of higher dispersion could be used in latter eruptions to determine these latter data to a more accurate degree. However, preliminary work must be done with an instrument of wide range, such as we have, to determine fruitful fields for latter work.

This spectrograph has not been used for volcanic studies since it was acquired in 1940. Hence in recent months I have brought it up from its storage place, cleaned it, readjusted it, and now have it ready for service. Spectrographic plates will be required for its use. These were chosen and ordered over a month ago and should arrive shortly. In case of a further delay in the arrival of these plates, I would suggest that we check up on the order. The plates cost less than a dollar for a comprehensive spectrographic study, and are necessary to realize any value on an observatory investment of several hundred dollars in the instrument.

Two packing cases of differing design were built under Dr. Ballard's direction in 1940. They provide for the transport of the spectrograph and all necessary equipment by pack train to the point of eruption. I would suggest that we arrange for the transport of this instrument by pack-train to the point of eruption at the earliest possible time during the eruption.

2. Magnetic observations. It was Dr. Jagger's intention at the founding of the Observatory that a magnetic program be carried on along with the seismic, earth tilt, and geological programs that he initiated. This magnetic program was not carried on because of a lacking of instruments and personnel. Our own recent request to the Carnegie Institution at Washington for a magnetic theodolite seems to have been refused. However there is strong evidence that there are striking magnetic changes during the eruptive cycle. The Japanese work in this field is quite sketchy, but points the way. My own recent study of a four-year's record of the Honolulu Magnetic Observatory for a period beginning in 1932 shows

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To R. H. Finch, pg. 2

a definite correlation of the right sense in a station 200 miles away. We also have the note of an observer during the latter part of the last century who recorded a change in magnetic declination of 40° during the Kilauea Iki flow.

If good magnetic correlations can be established, it would be a powerful tool to aid us in predicting eruptions, with consequent great economic value to the community. On a more general scale, a study of magnetic changes during the eruptive cycle would allow us to draw more detailed conclusions as to the size and location of the internal magma bodies.

Since we have no special instruments on hand, our magnetic work during the next eruption will have to be limited to a study of the changes of magnetic declination to the order of accuracy inherent in a good modern transit. To facilitate this work I have started to scatter temporary magnetic bench-marks with accompanying azimuth marks around Mauna Loa. I have established the following stations:

- Station "A" -- Puu Ulaula (10,000 ft. Rest House)
- Station "B" -- End of Truck Trail (6700 ft. Seismograph Cellar)
- Station "C" -- Horse Corral area
- Station "D" -- Brewer Farm area in Kau.

I hope to establish Station "E" in the Glenwood area this afternoon. To make this work complete at least two, and better three, stations must be established in corresponding positions on the other side of the mountain. I hope that you can arrange with the Army for a permit to use the Saddle Road for this purpose. I also hope to establish a station at the summit shelter whenever Mr. Davis makes his projected trip to the summit of Mauna Loa.

Since the magnetic changes will probably be rather slow and gradual, it will only be necessary to occupy these stations at intervals of several months over a complete eruptive cycle of 18 to 24 months. This work should not only be a positive beginning on a Mauna Loa magnetic program which should yield us a great deal of worthwhile data, but it will also strengthen our position when we are ready to ask Carnegie Institution once more for the loan of a magnetic theodolite.

3. Portable Seismograph. In our discussion and in our examination of past records for our joint paper on volcanic tremors (which, of course, is still in a process of gestation) we found that there is quite a bit that we do not know about this particular important seismic motion. Even tho our regular fixed seismographs have what would be regarded as a fast paper speed, it still is too slow to show many details of the tremors of about 0.5 seconds period. And even less is shown on our records of the tremors of 0.1 seconds period. At the present time we are not even too certain that the highest frequency tremors have actual existence. A short-period seismograph with an extremely fast paper speed is indicated to add to our knowledge of volcanic tremors.

In our discussions as to the possible mechanism of volcanic tremors we saw the need of a readily portable instrument to be used during an eruption to study the tremor in regard to the source fountains and in regard to the flow itself to test the hypothesis that we finally advanced as to its cause. Consequently, we should design and construct a portable seismograph that would meet the following loose specifications:

1. Period between 0.3 seconds to 1.0 seconds.
2. Amplitude uncertain -- variable in the field if possible.
3. Small and rugged so it can be transported by pack-train.
4. Paper speed of about 1 cm./sec.
5. Limitation of parts and material to what we have on hand.
6. Simple mechanical design so that we can build it without the help of an instrument maker.

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to R. H. Finch, pg. 3

Of all of these specifications, the last one is probably the most limiting.

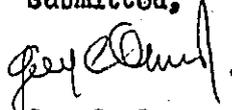
I have several tentative designs in mind. After I complete the establishment of the magnetic stations referred to in section 2, I shall try to evolve a workable design and submit it to you for approval. If this meets with your approval, I would like to start immediately on its construction so that we will be certain to have it on hand during the eruption. As a suggestion, we might be able to test the completed seismograph by setting it up near a waterfall. The Japanese experience would indicate that the tremors produced by the falls would be similar to the volcanic tremors that we are interested in.

4. Communications. This was covered in a previous memorandum, but might be reviewed briefly, since communications between a summit party and its supplies will be very important. We have a good telephone line up to the 10,000 ft. Rest House which is usually in service. We cannot count on it absolutely as it is prone to occasional failure, which strong quakes might well accentuate. In fact there is now one span shortly below the Rest House which is presently in need of repair (I would suggest that the next pack-train party up to 10,000 ft. House undertake this repair).

With this need in mind, arrangements were made with the Army Signal Corps, through the kind offices of Capt. Schultz to test the performance of Army radio pack sets on Mauna Loa. These tests indicated that three pack sets would give communication between nearly any point on the mountain to 10,000 ft. House and from there by radio relay to the Headquarters area. These pack sets are completely portable and could go up the mountain with the very first party and maintain communications until all parties left the mountain after the eruption had ceased.

The Signal Corps has offered to loan us pack sets, personnel, and parts in case of an eruption and has tentatively offered a more powerful mule-pack radio station for use after pack-trains are established. We can only hope that the same Signal Corps unit will still be stationed on this island when the eruption does finally take place.

Submitted,



Guy C. Omer, Jr.
Feb. 1, 1945

Distribution:
Original, Mr. Finch
C.C., Mr. Fagerlund
✓ C.C., Job Journal

10-23
(May 1923)

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

FILE NO.

Supt's

MONTHLY REPORTS

~~December, 1944~~

1944

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

January 16, 1945.

MEMORANDUM for the Director:

There follows the monthly report for the Month of December, 1944:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 71° and 45°, and at the Haleakala Ranger Station these recordings were 68° and 39°. Rainfall at Kilauea totalled 7.17 inches and at the Haleakala Ranger station the rainfall totalled 1.61 inches.

A considerable amount of snow was visible on both Mauna Loa and Mauna Kea during the latter part of December.

During the calendar year ending December 31, there was a total rainfall of 97.56 inches at Kilauea and a total of 31.75 inches at Haleakala.

The maximum and minimum temperatures for the year at Kilauea and Haleakala were respectively, 76° and 38° and 74° and 32°. There were 40 clear days at Kilauea and 173 at Haleakala, and there were at Kilauea 82 days with .01 or less rainfall and at Haleakala 13.

Snow was on the ground in the summit regions of both Mauna Loa and Mauna Kea through April, 1944. There was heavy frost during the month of February at Haleakala.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month. He attended a Boy Scout Executive Board meeting and luncheon on December 19, and also attended Selective Service Board meetings at Olaa, Local Board No. 1 during the month.

Interpretation

During the month, a total of 17 auto caravan trips were made to Mauna Loa with an attendance of 110. Four talks were given at the Museum to a total of 76 persons, one talk outside the park to a total of 25

*Apparently tampered figures
RAB
1/24/45*

??

persons, and 9 special talks at the Kilauea Military Camp to a total of 356 service personnel.

Research & Observation

The uneasiness of Kilauea Volcano that was noted in November continued to the end of the first week in December. Both the decrease in focal depth of Kilauea earthquakes and distinct tilt, especially at the southwest tilt cellar near the rim of Halemaumau, indicated a rise in the magma column. It was with mixed relief and disappointment to find that the tilt indicated a distinct subsidence on the morning of December 7. Prior to that date there had been strong indication of a return of lava to Halemaumau.

Commencing with December 27, Mauna Loa again started to show signs of uneasiness. At 4:41 a.m. on the 27th, occurred the strongest earthquake originating on this island since September, 1941. Objects toppled from shelves at places as widespread as Pepeeokeo and Haalehu. All seismographs on the island were dismantled. The quake was the most pronounced in the Kau district. Objects were thrown from shelves and some furniture moved at Kapapala. A few pipe lines were broken at Kilauea Military camp and at Haalehu. A considerable amount of stone fence was thrown down in the vicinity of Hilea. The quake was plainly felt on Oahu. There was another plainly felt shake on the 27th, one on December 30th, and another on December 31. The 3 following shakes were less intense than the first. All appear to have originated 18-19 miles below the surface in the vicinity of the eastern edge of Hokuaweoweo. The first shake on December 27th started many landslides at Halemaumau. The largest produced a roar that was audible 3 miles away. A total of 69 shakes were recorded at Kilauea and 56 at Mauna Loa. Twenty-nine shakes accompanied the rather rapid pressure decrease at Kilauea on December 6-7. A majority of the cracks around Halemaumau opened considerably more than the average during any month of the last year. Northerly tilt continued until the middle of the month when a southerly tilt set in. Accompanying the Mauna Loa earthquakes there was a distinct southeast tilt.

Ranger Davis continued to devote considerable time to Fern Weevil reconnaissance and other insect studies.

"A Checklist of Plants of Hawaii National Park" was processed during the month and some copies have been distributed to libraries, research organizations, and interested individuals. Mr. G. O. Fagerlund, Chief Ranger, spent some time on a paper on steaming vents to be published in the Volcano Letter.

Mr. P. H. Baldwin, assistant to the superintendent, spent a great deal of time obtaining information and preparing correspondence on the subject of the Laysan Rail, a bird which is threatened with extinction

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on Midway island, its last recorded locality. It is hoped that remaining individuals may be transferred to Laysan island, its original home. A trip was made by Mr. Baldwin to Honolulu to get more information.

Progress was made on the Nene food habits study as it finally became possible to devote several days to the analysis of data accumulated through Mr. Mitchell's identification of seeds, etc., in the collection of Nene droppings. Mr. Mitchell's work is nearly complete - and he should be through by the end of January, at which time it will be possible to conclude the study.

Maintenance

Maintenance of fences and telephones consumed a large amount of time. The cattle enclosures on the Mauna Loa slope were inspected as is done regularly each month, and some places were found to need repair. The Kilauea Iki trail was cleaned out by the Ranger division, and the Lava tube trail and bridges were repaired by the maintenance division. Considerable time was spent in renovating and making new trail and road signs.

Fire Protection

Weekly inspections of fire equipment were made. The quarterly fire hazard and sanitation inspection was made and a report prepared. One fire brigade training period and one surprise drill were held during the month. The Volcano House management has purchased 6 carbon dioxide fire extinguishers which materially augments their fire protection equipment.

Forest Protection

The Rangers disposed of a total of 21 goats and 16 pigs during the month, and two goat drives netted the contractor 148 goats.

In the Haleakala section, a total of 56 goats were disposed of in the crater this month. One wild pig was also destroyed on the trail to Paliku just below Namana o ke Akua.

Police Protection

One traffic accident involving an army vehicle and a civilian car occurred in the Volcano House driveway near its junction with Hamalahoa highway on December 27. Investigation was made by Ranger Davis. Ranger Davis and Chief Ranger Fagerlund visited the Provost Marshall of Hawaii District and he proposes to take prompt and effective action and asked to have a copy of our report and the charges preferred.

In the Haleakala section, Y. Kage, mentioned in last month's report, was tried by the Federal Court when it visited Maui, and fined a total of \$125.00, \$25.00 on the first count, (hunting pheasants), \$50.00 on the second count, (illegal possession of a fire arm in the

RECEIVED AS FOLLOWS

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park), and \$50.00 on the third count, (speeding).

Also in the Haleakala section, a Marine reconnaissance truck was parked at the summit and the driver and all the passengers were in the Observatory when some unknown person stole it and drove it about a quarter of a mile down the road and ran it into the bank and wrecked the front wheels and axle. The case was turned over to the Marine Provost Marshall, and to date the person who took the truck has not been found.

Cooperating Government Agencies

In Haleakala, the long awaited move of the officers and men of the Air Warning Service has at last taken place. The Information Center has been removed from Nailuku to the Puu Nianiau camp. The outfit that is to operate on Red Hill is all but moved in also. All equipment is in, and a technician is working on the instruments in an effort to get them working, but it seems that he is having a lot of trouble. Evidently the most important function of the setup there is an inter-island teletype machine. Ranger Hjort says it is interesting to note that so far he can receive messages clearly and accurately, but can send nothing out. Ranger Hjort has followed the whole thing with great interest for the purpose of finding out first hand if the location is not suited to the type of instruments being used as was the case with the radar.

Ranger Hjort informs us that Haleakala Ranch has notified his section of the park that all the land below the park boundary from Puu Nianiau to Ka Iepe a Moa, in all probability, will be taken from the ranch and made into forest reserve. If this goes through, we will not need to fence this area as planned. The Board of Agriculture and Forestry does not want any grazing on this land but the ranch is holding out for limited grazing. Ranger Hjort does not feel that a fence will be necessary as the ranch tried limited grazing in this area and have found that the feed is so much better below our boundary that the cattle very rarely came up into the park and then for only a short time, with practically no damage resulting.

Travel

In the Kilauea section, civilian visitors were estimated to total 11,926 and military visitors 14,802, compared with 12,396 and 26,505 for December, 1943.

At Haleakala, visitors were estimated to total 4,730 for the month of December including 4,480 in the armed forces. For the same month last year, civilian visitors were estimated to total 250 and military 1,360.

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Miscellaneous

The house appropriations committee has approved an allotment of \$115,000 for plague control in Hawaii. Dr. Thomas Farran, Chief of the Public Health Service asked for the money to help solve what he termed, "a baffling and difficult problem."

"Around the Island of Hawaii" air service, with an additional route "over the saddle" linking Hilo directly with Kailua, Kona, are among Hawaiian Airline's projected postwar plans for further expansion and improving of its services, according to Stanley G. Kennedy, Airlines President. The Airlines projected Big Island plans call for:

- (1) Around the island schedule via Hilo, Honolulu, Waimea, Kailua, Haalehu, Kilauea Volcano, and Hilo.
- (2) Direct "over the saddle" skyway from Hilo to Kailua with planes flying between Mauna Kea and Mauna Loa.
- (3) Early morning plane from Hilo to Honolulu via Maui, and a late afternoon plane from Honolulu to Hilo via Maui.

Visitors

Mr. Armitage, Manager of the Hawaiian Service in Honolulu, and Mrs. Armitage, were guests at the Volcano House during the month, as were Mr. and Mrs. H. A. Ramsay, Mr. and Mrs. Ernest Kai, former Secretary of the Territory of Hawaii and now an Attorney-at-Law, and Mr. Francis Brown, Senator.

Edward G. Wingate,
Superintendent

Orig. & 4 c's - Director
c.c. - Regional Director
c.c. - Hjort
c.c. - Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
January 5, 1944.

MEMORANDUM for the Superintendent:

Subject: Chief Ranger's Narrative Report for December, 1944.

000 - General

In general the duties at and near headquarters is handled by Ranger Davis and the Chief Ranger, while the work in outlying areas requiring overnight or several-day trips is done by Rangers Medeiros and Hauanio.

200 - Maintenance

Maintenance of fences and telephones consumed considerable time. The cattle exclosures on the Mauna Loa slope were inspected as is done regularly each month and some places were found to need repair. Rangers Medeiros and Hauanio and laborer Peter Pszyk repaired the water tank at Pepeiau and on the same trip inspected the sea coast area at Kalue. The Kilauea Iki Crater trail was cleaned out by the Ranger Division and the Lava Tube Trail and bridge were repaired by the maintenance division. New directions and instructions were posted at outlying telephones. Considerable time was spent in renovating and making new trail and road signs. Soon the signs will be ready to install on roads and trails.

Ranger Hauanio continued to devote an appreciable part of his time to work with the maintenance division.

400 - Interpretation

The scheduled interpretive program for December consisted of two weekly illustrated talks at Kilauea Military camp and one at the park lecture hall. Unscheduled interpretive service was given when requested. Kilauea Military camp park tours stopped regularly at the Observatory and Naturalist Building where informal talks were given by staff members in that building. See the statistical report for data on interpretive contacts.

430 - Research and observation

Ranger Davis continued to devote considerable time to Fern Weevil reconnaissance and other insect studies.

"A Checklist of Plants of Hawaii National Park" was processed during the

month and some copies have been distributed to libraries, research organizations, and interested individuals. Copies for the Director and Regional Director will be submitted with a special report.

The Chief Ranger spent some time on a paper on steaming vents to be published in the Volcano Letter.

500 - Use of the Park by the Public

Colonel Flemings informed the Chief Ranger several weeks ago that about 60 visitors arrive daily at Kilauea Military camp and they stay on the average of 5 days. At that rate the number would amount to at least 20,000 visitors and 100,000 visitor days in one year. In comparison the Volcano House number is rather small. No mention has been made in our travel reports of this, the largest group of bona fide park visitors. I think it should be done and, moreover, a supplemental report made showing K.M.C. visitation since September 1943. The number from September 1, 1943, to October 31, 1944, according to Colonel Flemings, is about 17,000.

600 - Protection

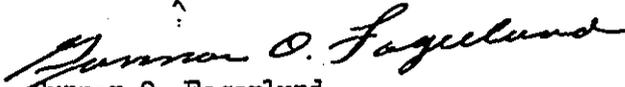
The monthly schedule of ranger duties called for a responsible man to remain in the headquarters area. This duty was divided among Mr. Baldwin, Ranger Davis, and the Chief Ranger.

One road patrol was made each Sunday by the ranger on duty. It is planned to send two rangers on remote patrol about once every two months. This appears advisable because of evidence of fishing and other illegal uses of the park in remote areas.

One traffic accident involving an Army vehicle and a civilian one occurred in the Volcano House drive near its junction with Mamalahoa Highway on December 27. A complete report was made by Ranger Davis. Ranger Davis and the Chief Ranger visited the Provost Marshall of Hawaii District and he proposes to take prompt and effective action and asked to have a copy of our report and the charges preferred.

Weekly inspections of fire equipment were made. The quarterly fire hazard and sanitation inspection was made and a report prepared. One fire brigade training period and one surprise drill were held during the month. The Volcano House Management has purchased 6 carbon dioxide fire extinguishers, which augment their fire protection equipment considerably.

The contractor, John Hamele, made one goat drive that netted 35 goats. The rangers destroyed 21 goats and 16 pigs.


Gunnar O. Fagerlund,
Chief Ranger

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

January 3, 1944.

MEMORANDUM for the Superintendent:
(Thru the Chief Ranger)

Subject: Monthly Narrative Report for December, 1944:

Fire and Sanitation Inspection

The regular quarterly inspection was made during the latter part of December. Chief Ranger Fagerlund accompanied me on the inspection and in general, everything was found satisfactory. (Kindly refer to report dated December 31, 1944).

Public Contacts

Interpretive work carried on during the month was as follows:

<u>Contacts</u>	<u>Date</u>	<u>No. of people</u>	<u>No. of hrs.</u>
<u>Lectures</u>			
K.M.C.	12/15/44	30	1
Observatory	12/17/44	14	1
K.M.C.	12/26/44	16	1
"	12/29/44	18	1
<u>Hikes</u>			
	12/16/44	23 Girl Scouts	3
	12/27/44	16 " "	4

Maintenance

The koa plots on Mauna Loa were visited on December 18, and the fence on the north and south side of the 20 acre plot was found to be in need of repair. Partial repairs were made a few days later, the south side having been completed.

There are about a half a dozen posts in the 100 acre plot that will have to be replaced in the near future. These are mostly on the east side.

Insect Survey

The Kipuka Puauulu, Kipuka Ki and Chain of Craters areas were visited

for the purpose of gathering data for the Annual Forest and Insect report due in January.

While on this survey in Kipuka Puauulu, it was observed that falling koa trees had knocked the fence down on the west and north west end. This was reported to the Chief Ranger and repairs have been completed.

Fern Weevil Reconnaissance

The following areas were covered:

- (1) Old Keahou road (from Chain of Craters road to Lava Tube)
- (2) Kalapana Trail
- (3) Bridle path (from Lava Tube to Volcano House stables)

No weevil injury was found along the Keahou road east of the Lava Tube. It was, however, quite general from the Hilo Entrance vicinity and there on and the Volcano House stables.

Miscellaneous

Other activities engaged in were as follows: Travel counts, research, goat count, patrol, fire drill, checking fire engine and equipment, and investigating a motor vehicle accident. The latter occurred on the 27th of December at the Mamalahoa - Volcano House driveway intersection and involved an Army and a civilian vehicle. (Kindly refer to Investigator's report, dated 30th December, 1944).

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger.

c.c. - Davis
c.c. - Chief Ranger

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

December 28, 1944.

MEMORANDUM for the Superintendent:

The monthly report for December 1944 is submitted.

The principal piece of administrative business accomplished was a detailed compilation of essential information concerning the purpose and history of establishment of the Hawaii National Park.

Several days were spent in obtaining information and preparing correspondence on the subject of the Laysan Rail, a bird which is threatened with extinction on Midway Island, its last recorded locality. It is hoped that remaining individuals may be transferred to Laysan Island, its original home. A trip will be made to Honolulu by the undersigned during the last few days of December to get more information on this matter.

Progress was made on the Nene food habits study, as it finally became possible to devote several days to the analysis of data accumulated through Mr. Mitchell's identification of seeds, etc., in the collection of nene droppings. Mitchell's work is nearly complete - he should be through by the end of January. It will then be possible to conclude the study.

At the request of Mr. Fagerlund, the undersigned will try to prepare a set of marine shells for the park naturalist laboratory. Specimens will be taken from the Assistant to the Superintendent's personal collection after the shells have been identified. A letter was written to Dr. Alexander Wetmore, Secretary of the Smithsonian Institution, to find out if the institution could undertake identification of the shells.

Further assistance was given Dr. C. H. Edmondson of the Bishop Museum in his study of resistance of native Hawaiian woods to the marine borer, Teredo. Samples of Antidesma were sent to him.

The Assistant to the Superintendent assisted in the fire protection program, conducting the instruction session for the park staff on December 4, and participating in the impromptu drill later in the month.

Travel data was discussed with Mr. Fagerlund, and at his suggestion, K.M.C. was requested to furnish monthly information on visitor use, as this is pertinent to the naturalist program. The request was denied by the military authorities

on the usual excuse that it is divulging military information on troop movements. Perhaps estimates sufficiently accurate can be made in our office. The park should receive credit for the contact work it does at the camp. The need for naturalist service there would be apparent if we can present data on current visitor use there.

Administrative details were attended to daily, including board of survey work and preparation of reports and correspondence.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent

c.c. - Baldwin
c.c. - Fagerlund

Addenda

Interpretive contacts: by Asst to Supdt. :

<u>Place</u>	<u>Subject</u>	<u>Date</u>	<u>Persons</u>	<u>Contact hours</u>
K.M.C.	Mauna Loa movies	12/5	40	20
Nat. Bldg.,	" " "	12/10	23	18
K.M.C.	" "	12/12	40	30
"	" "	12/21	42	31

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
January 3, 1944.

MEMORANDUM for the Superintendent:
(Through the Chief Ranger).

Subject: Report of activities for the Month of December, 1944:

A considerable amount of time was spent checking on signs along the park trails, roads, camps, etc., to see how many were in need of repair, and trying to locate suitable spots for new signs.

The telephone which was installed at the former Ainahou O.P. has been removed, and on this same day, the Makaopuhi telephone was repaired. The fence line in the Bird Park area was repaired and also the fence line which was found to be cut off at the boundary line of the halfway house, crossing an old road leading to the old stone quarry. A little repair work was performed at the horse corral.

Pig control work was performed twice during the month, and on both trips, I was accompanied by John Hauanio Jr., A total of 16 pigs, 11 of which were babies, were destroyed.

Telephone line repair work was done in the Ainahou section, and considerable time was spent shoeing park horses in preparation for a tour to Pepeiau and Kalue, on which trip I was to be accompanied by Ranger Hauanio and Peter Psyzk. The Pepeiau water tank was taken down and reassembled.

At the Elemakule and Kalue shorelines, it was evident that fishing had been disturbed and, the wooden fence posts from the Elemakule fence line had been hauled as far as, and past the Kalue water hole, and had been hidden in caches at the Pali, along with fish spears. During this tour, a total of 21 goats were destroyed around Pepeiau, Kaone, and the Hilina area.

For the month of December, 1944, a total of 21 goats and 16 pigs were destroyed.

A. B. Medeiros

A. B. Medeiros,
Ranger

c.c. - Ranger Medeiros
c.c. - Chief Ranger

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

January 4, 1944.

MEMORANDUM for the Superintendent.
(Through the Chief Ranger)

Subject: Monthly Report, December, 1944:

Maintenance Division

During the early part of the month, I helped Foreman Waltjen with some repair work on car 790, which consisted of changing the clutch. We also worked on car #'s 800 and 792, checking the starters.

On December 12, the tractor was taken to Na Mahai Paio, and on my return, I made a trip to Hilo for the purpose of getting Bitumul oil.

On December 13, we were without crushing rock, as that noon the crusher shaft broke. However, I performed the necessary repairs and it is now in working condition.

Ranger Division:

On December 3, I participated in counting the goats at Kipuka Nene corral. Ranger Medeiros and I spent a day and a half repairing the fence line at Bird Park, and half a day repairing the fence at the Kau boundary line. We also did some stable repair work, and shod a few park horses and mules, before going on a tour. On this trip, we started out from the horse corral and proceeded to Hilina Pali, then to Pepeiao. The following day, we removed the water tank, made the necessary repairs, and set it back up again. When jobs needing attention were completed, we continued down to Kalue and camped there. While here we noticed that iron roofing and lumber from the Kaone O.P. had been hauled down to the Kalue water hole. With this material, a little shack had been erected. We also noticed that fishing had been disturbed, and found fence posts, which had been used for firewood, hidden in caches in the side of cliffs.

On the 20th, ⁹ we cleaned the Kilauea iki crater trail, from the lava tube, at the same time searching for a fallen tree on the trail halfway from the bottom.

Signs were painted and the Ainahou telephone line checked. Twice during the month pig control work was performed by Ranger Medeiros and I. About 20 goats and 16 pigs were destroyed.

John P. Hauanio, Jr.
John P. Hauanio, Jr.,
Park Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala

Wailuku Maui
Jan. 1, 1944

Memorandum to the Superintendent Edward G. Wingate through the office of the Chief Ranger G. E. Fagerlund;

The following narrative report for the month of December 1944 is respectfully submitted;

HAPPY NEW YEAR----to all personnel of the Kilauea section and their families.

Weather conditions in the park

Max. temp.-----68 degrees on the 23rd.
Min. temp.-----39 degrees on the 30th.
Rainfall total-----2.58
Clear days-----8
Partly cloudy days----15
Cloudy days-----8

The storm during the latter part of the month was anti-trade and was general on this island. After the storm passed Mauna Kea and Mauna Loa were seen to be covered with snow on about the upper three thousand feet.

Public service contractors

No service was offered to the public in the park by the Maui Grand Hotel this month.

Complaints

A complaint was received by telephone by a Dr. Williams of the Marines (he did not give his rank) to the affect that the toilets at the summit were not sanitary and that if steps were not taken to make them so no more Marines would be allowed to visit the area. After some discussion the Dr. said that since I was alone here he would send up a detail and have them spray the toilets with the new DDT. No one ever arrived and I have not heard from him since, however the Marines are still visiting the summit.

I thoroughly scrubbed the toilet seats and disinfected them and put lime and some other disinfectant in the pits. I also called up the medical section of the 4th Marines and asked them to inspect them but they were not intrested and seemed to know nothing of any complaint having been turned in.

Cooperating government agencies

The long awaited move of the officers and men of the Air Warning Service has at last taken place. The Information Center has been moved from Wailuku to the Puu Nianiau camp.

The outfit that is to operate on Red Hill is all but moved in also. All equipment is in and a technician is working on the instruments in an effort to get them working but it seems that he is having a lot of trouble. Evidently the most important function of the set up there is an inter-island teletype machine. It is interesting to note that so far he can receive messages clearly and accurately but can send nothing out. I have followed the whole thing with great interest for the purpose of finding out first hand if the location is not suited to the type of instruments being used as was the case with the radar. I have been assured that all the trouble is mechanical and will clear up soon but am a hard loser.

As far as I can find out this installation is to be under the Service Command. If this is true then at the summit there will be three separate commands as the fighter control on Kolekole is under the Air Corps and the relay FM radio is under the A.W.S. which in turn is under the Signal Corps.

Haleakala Ranch notified this section of the park the other day that all the land below our boundary from Puu Nianiau to Kalepia Moa in all probability will be taken from the ranch and made into forest reserve. If this goes through we will not need to fence this area as planned. The Board of Forestry and Agriculture does not want any grazing on this land but the ranch is holding out for limited grazing. In either event I do not think a fence will be necessary as the ranch tried limited grazing in this area and the feed is so much better below our boundary that the cattle very rarely came up into the park and then for only a short time with practically no damage resulting.

Birds

Valley Quail were seen several times this month above the 8,000 ft. mark after the heavy frosts had started. This is rather unusual as most years they have left the park to go below when the cold weather came.

Increase or decrease in travel

Civilian travel was estimated to be less than last month but military travel figures showed little change.

Police protection

Y. Kage was tried by the Federal Court when it visited Maui and fined a total of \$125.00, \$25.00 on the first count (hunting pheasants), \$50.00 on the second count (illegal possession of a fire arm in the park), and \$50.00 on the third count (speeding).

The third Marine was dismissed by his superior officers because of lack of evidence. Evidently the officers did not want to try the man and used this excuse to get out of it and since they have left for parts unknown and are no longer under the jurisdiction of the Senior Naval Officer on Maui they got away with it.

Accidents

A Marine recon. truck was parked at the summit and the driver and all the passengers were in the observatory when some unknown person stole it and drove it about a quarter of a mile down the road and ran it into the bank and wrecked the front wheels and axle. The case was turned over to the Marine Provost Marshal and to date the person who took the truck has not been found. This accident happened on the 31st.

Destruction of exotic animals

Fifty-six goats were killed in the crater this month. One wild pig was also killed on the trail to Paliku just below Namana o ke Akua. Not many pigs get this far into the crater.

Frank A. Hyatt
Ranger-in-Charge

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

January 6, 1944.

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for December

The uneasiness of Kilauea volcano that was noted in November continued to the end of the first week in December. Both the decrease in focal depth of Kilauea earthquakes and distinct tilt, especially at the southwest tilt cellar near the rim of Halemaumau indicated a rise in the magma column. It was with mixed relief and disappointment to find that the tilt indicated a distinct subsidence on the morning of December 7. Prior to that date there had been strong indication of a return of lava to Halemaumau.

Commencing with December 27, Mauna Loa started to show signs of uneasiness. At 4:41 a.m. of the 27th occurred the strongest earthquake originating on this island since September, 1941. Objects toppled from shelves at places as widespread as Pepeekeo and Naalehu. All seismographs on the island were dismantled. The quake was the most pronounced in the Kau District. Objects were thrown from shelves and some furniture moved at Kapapala. A few pipe lines were broken at Kilauea Military Camp and at Naalehu. A considerable amount of stone fence was thrown down in the vicinity of Hilea. The quake was plainly felt on Oahu.

There was another plainly felt shake on the 27th, one on December 30, and another on December 31. The 3 following shakes were less intense than the first. All appear to have originated 18-19 miles below the surface in the vicinity of the eastern edge of Mokuaweoweo.

The first shake on December 27, started many landslides at Halemaumau. The largest produced a roar that was audible 3 miles away.

A total of 69 shakes were recorded at Kilauea and 56 at Mauna Loa. Twenty-nine shakes accompanied the rather rapid pressure decrease at Kilauea on December 6-7.

A majority of the cracks around Halemaumau opened considerably more than the average during any month of the last year.

Northerly tilt continued until the middle of the month when a southerly tilt set in. Accompanying the Mauna Loa earthquakes there was a distinct SE tilt.

The following table shows some of the data collected in December;

Week ended	Tilt	Seismic disturbances	Seismicity
Dec. 3	Slight NNW	11	6.75
10	Slight NW	32	16.25
17	Slight NNW	10	3.50
24	Slight SSE	3	1.25
31	Mod. SE	20	18.00

Work of R. H. Finch:

With G. O. Fagerlund a section of the ash on the Kaoiki Pali, a little to the SW of the Ohaikea corral was measured at the request of Dr. G. A. McDonald. A series of photographs of steam vents were taken. The seismic routine was much heavier than common and the work was a little behind at the end of the month. 456 visitors were shown through the Observatory.

Work of G. C. Omer:

He assisted in seismograph routine and checked the Howard clock by radio frequently. Routine janitor work took a part of one day each week. When large crowds of visitors arrived he assisted in showing the work of the observatory and telling something of the Park. Whenever time permitted he worked on the correlation of seismicity and magnetic anomalies.

R.H. Finch

R. H. Finch,
Volcanologist

c.c. - Dr. Jagger
c.c. - Major Bryan
c.c. - Dr. G. A. McDonald

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT

November, 1944

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.

ARNO B. CAMMERER,
Director.

December 7, 1944.

MEMORANDUM for the Director:

There follows the monthly report for the month of November, 1944:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 72° and 47°, and at the Haleakala Ranger station these recordings were 67° and 38°.

Rainfall at Kilauea totalled 10.82 inches and at the Haleakala Ranger Station the rainfall totalled 1.61 inches.

Snow from the storm late in October was visible in patches on the summit of Mauna Kea until late in November.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month with the exception of a few days which were spent on Maui and Oahu. He left headquarters on the 14th and returned on the 20th. Inspections were made of the Haleakala section and conferences were held with Ranger Hjort and in Honolulu, he conferred with the Assistant Commissioner of Public Lands relative to the Kalapana extension and Mr. Carlson of the Public Roads Administration concerning the post-war road program.

Selective Service Board meetings were attended throughout the month at Selective Service Board No. 1, Oloa, Hawaii.

Interpretation

During the month a total of seven lectures were given to a total attendance of 351. One was held at the Volcano House with a total of 100 present, one at the Museum to a total of 26 persons, three outside the park to a total of 160 persons, and two special lectures at the Kilauea Military Camp to a total of 65 persons. A total of 185 persons visited the seismograph in the Volcano Observatory.

In the Haleakala section, one showing of the 1942 Mauna Loa Eruption pictures was put on for a small party of 4th division marines. Approximately 50 men were present.

Research and Observation

For the first time in several months, more earthquakes of Kilauea

than of Mauna Loa origin were recorded. In fact, starting with an earthquake on November 12, that was widely felt on this island and strong enough to dismantle one component of the Kona seismograph, Kilauea showed distinct signs of uneasiness. The November 15th earthquake originated at a depth of about 8 miles. On November 15th, there was another Kilauea shake, plainly felt locally, with a focus much nearer the surface. This change in depth of focus may be taken as an indication that lava was rising in the conduits under Halemaumau. By the end of the month, 8 more Kilauea shakes, most of which were strong enough to be perceptible, had been recorded.

The absence of fluctuations in the E-W tilt and the fact that northerly tilt was but little more than the normal, made it seem inadvisable to forecast a return of lava to Halemaumau. The fact that the 36 seismic disturbances were recorded at Mauna Loa and 35 at Kilauea, does not show the true relative seismicity because most of the Kilauea shakes were recorded at Mauna Loa and several of the Mauna Loa shakes did not register at Kilauea. A majority of the cracks around Halemaumau showed a distinct opening. Most of the movement accompanied the earthquakes of the last half of the month. Tilt on the northeast rim of Kilauea was slightly more to the northeast than normal. The west tilt cellar at Halemaumau showed a distinct tilt to the west, indicating a rising along the upper end of the SW rift.

A field trip to the Puuwaawaa area, in North Kona, was made from November 15 to 22nd by Messers. Baldwin and Mitchell to study the nene in this region. Mr. Mitchell recorded data on food plants, and several important records were made, but no nests or large flock of nene were seen. Observations were also made on the rare Hawaiian Crow. On the north slope of Hualalai above the cattle range, this bird is still much in evidence and shows none of the extreme wariness it does in South Kona where it has come in contact with man. A hike completely around Napau Crater was made by Mr. Baldwin along with Dean Amadon, former Ornithologist from the American Museum of Natural History, and now of the U. S. Army. On this trip many Hawaiian Thrush were seen or heard. Three Ou were seen and several more heard. The Ou was last seen in 1940 and is probably one of the rarest of all Hawaiian birds.

The manuscript of, "A Check List of the Flora of Hawaii National Park", by Gunnar O. Fagerlund and A. L. Mitchell, has been completed and most of it stenciled.

Ranger Davis continued his entomological studies, and reports that he has found heavy fern weevil infestation near Makaopuhi Crater, which he did not find while employed here as a seasonal ranger in 1941. Fourteen Halemaumau stipes from the Makaopuhi area were placed in a rearing box on November 19th, and in a period of ten days 15 Braconid Fern Weevil parasites have emerged. A total of 40 vials of insects was mailed in for determination; eleven to Mr. O. H. Swezey of the Experiment Station, H.S.P.A. and 29 to Dr. D. Jensen of the

University of Hawaii.

Personnel

Miss Hanako Nekonishi entered on duty November 1 as Clerk-Telephone Operator and Mr. Gunnar Fagerlund, former Ass't Naturalist, as Chief Ranger on the same date.

Fire Protection

During November, 3 fire drills were held. On the 6th, two instruction drills were had, one for the park women and one for the men employees. A surprise drill was called at 8:00 p.m. on the 29th with the Kilauea Military Camp fire truck participating.

Forest Protection

Two goat drives held during the month netted 144 goats. In addition 16 were destroyed, making a total of 160 goats eliminated during the month. Nine pigs were destroyed.

In the Haleakala section, a total of 106 goats were killed in the crater for November, and one wild dog was destroyed.

Police Protection

Haleakala section reports that the two marines from the Kahului Naval Air Station received a \$60.00 fine each for the charges that we reported in our October report. Y. Kage has been released on a \$75.00 bail after he waived hearing before the U. S. Commissioner in Wailuku. His trial will take place as soon as the Federal Court comes to Maui.

Also in the Haleakala section, five servicemen were turned over to the shore patrol on the 26th for hiking off the trail in the crater after having been warned not to go in the crater.

Installing & Resetting Signs

Two signs were put on the approaches to the Fern Jungle Trail, and the sign at the Thurston Lava Tube was reset for the benefit of motorists approaching from both directions.

Travel

In the Kilauea section, civilian visitors were estimated to total 15,279 and military visitors 14,137 compared with 11,474 and 21,195 for November, 1943.

At Haleakala, visitors were estimated to total 5,200 for the month of November, including 4,800 in the armed forces. For the same month

last year, civilian visitors were estimated to total 225 and military 1,565.

Community Projects

With the help of local boy scout officials, a new cub pack was started in the park - 29 miles community. Leadership will be provided from both areas. The pack committee will consist of the same membership as the troop 8 - troop committee, but the chairman of the pack committee will be given to one of the 29 mile members if one can be found to take it.

Visitors

Mr. Lorrin P. Thurston, Publisher, Honolulu Advertiser, and Mr. Webley Edwards, News Commentator and War Correspondent, were guests at the Volcano House during the month.

Miscellaneous

Ranger Hjort, Haleakala section, reports that some time in October, a Navy plane went up on a routine weather observing flight from the Kahului Naval Air Station with a Navy officer pilot and a Navy enlisted man aerographer in it. "No word was ever received from the plane and it never returned. A few days later, a wrecked plane was seen from the air in the West Maui Range. A search was started to identify the plane and the men. A Lieutenant Commander Budny finally took over the search and spent about five days with several men in trying to reach the plane but was unsuccessful due to bad weather and the fact that on the first two tries the men were on the wrong ridge. After the third attempt was made by Mr. Budny and many more by interested civilians, the Commander of the base called the whole thing to a stop and asked me if I would like to try. I accepted and alone on the 28th, after first obtaining all the details learned by Mr. Budny and others, I started for the plane at about 7:00 a.m. from the end of the Waikapu Valley road. I reached the plane at 1:30 p.m. and obtained the proper markings from the plane and the lower jaw of the pilot to identify the body. Both men in the plane were badly burned with nothing but bones remaining of their bodies. I returned to the end of the Waikapu Valley road without mishap at 6:00 p.m. The investigation held later brought out the facts that the plane was the one missing and the teeth in the jaw matched the dental chart of the pilot of the plane. Ranger Hjort remarked, "I was glad to be able to do this for the Navy since they have so often helped me in my work here."

Historical American victories in the Pacific have caused no complacency or false security to settle over the Big Island's volunteer defense forces - the Hawaii Rifles. Proof of this was evidenced by the recent completion of an unusual rifle range built entirely by hand, by one of the Rifle's sharpest shooting platoons. Carved from the volcanic terrain of the Kona District, the range is less than 100 yards from the ocean, its three targets set in a pit of coconut logs and ohia wood. To build this range, they hauled sand in gunny sacks and rice

bags, walking in single file over rough lava that their few supply trucks would not cross. Out of the volcanic rock they carved their pit, chipped out and elevated a firing line.

The local general election on the 7th was of interest in that it showed the great strength of the organized labor vote. Almost every candidate endorsed by the L.P.A.C. was elected, some despite opposition from such local political powers as Senator 'Doc' Hill and the Baldwin family on Maui.

Edward G. Wingate,
Superintendent

Orig. & 4/c. - Director
c.c. - Regional Director
c.c. - Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
December 4, 1944.

MEMORANDUM for the Superintendent

Subject: Chief Ranger's Narrative Report for November, 1944

000 - General

The undersigned reported for duty as Chief Ranger on November 1. In addition to the usual responsibilities the chief ranger is in charge of interpretation. Ranger Davis devoted most of his time to entomological study. Rangers Medeiros and Hauanio spent considerable time on goat control, pig control and patrolling. Ranger Hauanio also spent considerable time on maintenance work. Probably more time should be devoted in the future to road patrol especially on weekends.

200 - Maintenance

A four-day inspection trip was made to the Puu Ulaula and Mokuaweoweo shelters by Rangers Medeiros and Hauanio and laborer Peter Psyzk for the primary purpose of repairing the Mokuaweoweo shelter water tank. Psyzk did a creditable job on the tank according to reports.

A new telephone code schedule was prepared and distributed.

Two days were spent in the field by the Chief Ranger and Ranger Medeiros inspecting road and trail signs.

300 - Activities of other agencies
in the park

Twenty gallons of paint for targets were packed to Na Puu o na Elemakule for the Navy.

400 - Interpretation

A scheduled lecture program was organized. See the attached schedule for December. Also note the attached statistical report for data on all interpretive contacts.

430 - Research and Observation

The manuscript of "A Check List of the Flora of Hawaii National

Parkⁿ was completed and most of it was stenciled.

Ranger Davis continued his entomological studies. Note in his report that he found heavy fern weevil infestation near Makaopuhi Crater which he did not find in 1941.

600 - Protection

Two goat drives netted 144 goats. In addition 16 were destroyed making a total of 160 goats eliminated during the month. Nine pigs were destroyed.

Three fire drills were held under the supervision of Assistant to the Superintendent Baldwin.

Gunnar O. Fagerlund

Gunnar O. Fagerlund,
Chief Ranger

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

December 2, 1944

MEMORANDUM for the Superintendent:

The Assistant to the Superintendent engaged in the following activities during November, 1944:

Fire Protection

During November the fire drill schedule was conducted by the undersigned. On the 6th two instruction drills were had, one for the park women and one for the men employees. The Volcano House employees attended the former. A surprise drill was called at 8:00 p.m. on the 29th with the K. M.C. truck participating.

Functions of Chief Ranger and Assistant to the Superintendent

Fire protection, police protection, forest protection and telephone and trails maintenance, as well as other minor ranger functions have been taken over by Chief Ranger Fagerlund.

The Assistant to the Superintendent will participate in the 24 hour duty "responsible" man schedule which involves responsibility for fire suppression and handling of other emergencies in the absence of the Chief Ranger. He also will give one third of the scheduled talks at K.M.C. and the Naturalist Building.

Transportation

On Nov. 14 a meeting of division heads was called to reassign cars and discuss driver responsibilities. Cars were assigned as follows: Fagerlund - 799, 798, 785, 789, 804; Finch - 800, 788; Waltjen - 802, 790, 791, 792, 794; Baldwin - 781, 784. The Chief Clerk was designated to act as Master of Transportation in the absence of the Assistant to the Superintendent. It was decided to keep 800 at the Observatory building and 785 at Fagerlund's house. The division heads will control the use of the cars assigned to them in all matters of routine and regular business. Special out-of-park uses are to be approved by the Master of Transportation or the Superintendent. Drivers are responsible for frequent checks and cleaning of vehicles. The suggestion was made that periodic inspection of vehicles be held.

Travel-Visitor data

Counts at Kilauea and Haleakala show definite falling off of travel as winter comes on. Visitor use at Kilauea has dropped under that of preceding months. At Kilauea the figures, except for civilian visitors, are lower than those for November 1943.

	Nov. 1944	Nov. 1943
Civilian Visitors	15,279	11,474
Military Visitors	14,137	21,195
Total Visitors	29,416	32,669
Visitor days	31,231	33,692

At Haleakala travel is higher than in Nov. 1943

	Nov. 1944	Nov. 1943
Civilian visitors	400	225
Military visitors	4,800	1,565
Total visitors	5,200	1,790
Visitor days	5,435	2,119

Interpretive work

Mauna Loa eruption movies were shown to 125 at Kailua on Nov. 2. About 75 were U.S.O. personnel at a territorial U.S.O. conference.

800 reprints of "Birds of Hawaii National Park" were offered to the Hawaii Natural History Association at cost (3.6¢ each). These will be sold by the association at 10 or 15¢ each.

Two watercolors of native birds were taken to Honolulu by Mr. Kjargaard of the Paradise of the Pacific to determine whether or not they will be used for the next Christmas issue.

Research

A field trip to the Puuwaawaa^{area} was made from Nov. 15 - 22 to study the nene in this region. A.L. Mitchell recorded data on food plants. Several important records were made, but no nests or large flocks of nene were seen. Observations were made on the rare Hawaiian

crow. On the north slopes of Hualalai above the cattle range this bird is still much in evidence and shows none of the extreme wariness it does in South Kona where it has come in contact with man. This should be a good source of eggs or young to transfer to its former range in Bird Park and Ohaieka.

A hike completely around Napau Crater was made with Dean Amadon, Ornithologist from the American Museum of Natural History, on Nov. 25. Many Hawaiian Thrush were seen or heard. Three Ou were seen and several more heard. The Ou was last seen in 1940 and is probably one of the rarest of all Hawaiian birds today.

Administrative duties

Several memoranda were prepared in answer to requests from the Directors and Regional Directors offices. The C.C.C. camp was inspected on Nov. 12 after being vacated by the 213 Tank outfit.

Community Projects

With the help of local boy scout officials a new cub pack was started in the park - 29 miles community. Leadership will be provided from both areas. The pack committee will consist of the same membership as the Troop 8 troop committee but the chairmanship of the pack committee will be given to one of the 29 miles members if one can be found to take it.

Troop 8 was presented with \$25.00 by the Japanese Language School organization at 29 miles.

A coast Guard party was attended at the Naval Recreation Center on Nov. 14.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent

*Valda
For Monthly Report
EJW*

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

November 30, 1944

MEMORANDUM for the Superintendent

(Through the Chief Ranger)

There follows my monthly report for November, 1944.

I. Travel Count

Spent two afternoons checking incoming and outgoing vehicles at the Hilo Entrance.

Travel appeared to be considerably lighter than the last count.

II. Installing and resetting signs

Two signs were put up on the approaches to the Fern Jungle Trail.

The sign at the Thurston Lava Tube was reset for the benefit of motorists approaching from both directions.

III. Fern Weevil Reconnaissance

Territory covered in the past thirty days included (a) Hilo Entrance to Thurston Lava Tube (b) Devil's Throat to Hiiaka and Pauahi Craters, south to boundary on Ainahou Road, north to old Kea-hou Road, east to Puu Huluhulu, south to Aloi Crater, and east to Alaelae and Makaopuhi Craters.

A bad infestation was found on the south side of the highway about 100 yards west of Makaopuhi.

The weevil was not found in this area in 1941, and since no adult emergence holes were found in the old stipes it is believed that this insect was introduced shortly after 1941.

Reconnaissance was curtailed somewhat due to inclement weather.

IV. Research

Fourteen Amaumu stipes from the Makaopuhi area were placed in a rearing box on November 19th, and in a period of ten days fifteen Braconid Fern Weevil parasites have emerged. This is indeed

encouraging.

Good progress has been made in the Insect Fauna of the Park.

Fourteen rearing boxes were prepared and insect data from the following native trees and plants is being recorded:

- | | |
|---|------------------|
| 1 - Acacia Koa | (Koa) |
| 2 - Sophora chrysophylla | (Mamani) |
| 3 - Myrsine sandwicensis | (Kolea laulii) |
| 4 - Myrsine Lessertiana | (Kolea) |
| 5 - Myoporum sandwicense | (Naio) |
| 6 - Metrosideros callidum var. polymorpha | (Ohia) |
| 7 - Sadleria cyatheoides | (Amamau) |
| 8 - Osmanthus sandwicensis | (Olopua) |
| 9 - Ilex sandwicensis | (Hawaiian Holly) |
| 10 - Hibiscadelphus | (Hau kuahiwi) |
| 11 - Straussia Hillibrandii | (Kopiko) |

A total of 40 vials of insects was mailed in for determination; eleven to Mr. O. H. Swezey of the Experiment Station, H.S.P.A. and twenty-nine to Dr. D. Jensen of the University of Hawaii.

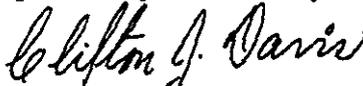
V. The Giant Koa

While on reconnaissance in the Kipuka Ki section, a visit was made to the Giant Koa. It is no longer standing, having fallen within the last six months.

It was suggested by Mr. Mitchell that cross sections of this koa be obtained and used for tables in various recreational areas.

As this tree is about the largest in the Territory of Hawaii, (about ten feet in diameter), I believe that Mr. Mitchell's suggestion merits consideration and that this would be preserving for years to come an unusual natural feature of Hawaii National Park.

Respectfully submitted,



Clifton J. Davis,
Park Ranger.

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

December 4, 1944.

MEMORANDUM for the Superintendent

(Through the Chief Ranger)

Subject: Report of activities for the Month of November, 1944.

A patrol and inspection tour was made to the summit of Mauna Loa, accompanied by ranger Hauanio Jr., and laborer Peter Psyzk. On this trip the weather was very favorable. At 10,000 feet the rest house was checked upon, some cleaning performed, and it was also supplied with fuel.

The summit rest house was likewise checked, a few repairs made, and supplied with fuel. A few window glasses were replaced and the water tank was taken down and reassembled. All equipment was removed from the evacuation center situated above the end of the Mauna Loa truck trail. In this area, seven goats were destroyed.

Paint was transported to Elenakule for use by the army in painting a target mark. Pig control was performed in the areas back of Pawahī at which time nine pigs, eight of which were unborn, were destroyed.

A considerable amount of time was spent shoeing park horses, and participating in goat drives. Two goat drives were held, 113 goats were sold to Jack Hameli and 3 were destroyed.

I spent a little time at the paint shop sign painting, repairing riding saddles, and checked on signs along park roads and trails.

For the month of November, 144 goats were sold to Jack Hameli, and 16 were destroyed. Telephone repairs were made at Makaopuhi and I removed the telephone and box which were installed at the former O.P. station at Ainahou.

The Nene area has been an important section and will be for some time to come, for horse grazing which has come about because of the goat drives. At present, the water tank is not supplying sufficient water for the horses. Therefore, I suggest that one of the small wooden tanks back of the wood shed be installed in place of the one now standing at Nene.

A. B. Medeiros

A. B. Medeiros,
Ranger

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

December 6, 1944.

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for November:

For the first time in several months, more earthquakes of Kilauea than of Mauna Loa origin were recorded. In fact, starting with an earthquake on November 12, that was widely felt on this island and strong enough to dismantle one component of the Kona seismograph, Kilauea showed distinct signs of uneasiness. The November 15th earthquake originated at a depth of about 8 miles. On November 15th there was another Kilauea shake, plainly felt locally, with a focus much nearer the surface. This change in depth of focus may be taken as an indication that lava was rising in the conduits under Halemaumau. By the end of the month, 8 more Kilauea shakes, most of which were strong enough to be perceptible, had been recorded.

The absence of fluctuations in the E-W tilt and the fact that northerly tilt was but little more than the normal, made it seem inadvisable to forecast a return of lava to Halemaumau.

The fact that the 36 seismic disturbances were recorded at Mauna Loa and 35 at Kilauea, does not show the true relative seismicity because most of the Kilauea shakes were recorded at Mauna Loa and several of the Mauna Loa shakes did not register at Kilauea.

A majority of the cracks around Halemaumau showed a distinct opening. Most of the movement accompanied the earthquakes of the last half of the month.

Tilt on the northeast rim of Kilauea was slightly more to the northeast than normal. The west tilt cellar at Halemaumau showed a distinct tilt to the west, indicating a rising along the upper end of the SW rift.

The following table shows some of the data collected in November.

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Nov. 5	Mod. NE	8	4.00
12	Slight N	8	5.50
19	Slight ENE	8	5.50
26	Very slight SW	8	5.75

Work of R. H. Finch:

Some material for the Volcano Letter was collected. Seismological work was kept as near current as possible. One hundred and eighty-five people were shown the Observatory seismograph and some museum specimens.

Work of G. C. Omer:

He made two trips to Hilo to work on the seismograph clocks. Some necessary repairs were made on the Kona seismograph. Some work was done in correlating world seismicity with magnetic anomalies. He also assisted in routine seismology, and also assisted in handling tourists when the crowds were too large to be handled in one group. Some time was spent in cleaning up the observatory building.

R. H. Finch

R. H. Finch,
Volcanologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala

Red
12/5/44
ABBS

Wailuku Maui
Dec. 2, 1944

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of November 1944 is respectfully submitted;

Introduction:

The 4th division of Marines stationed on this island have been awarded a presidential citation for their outstanding work in the recent Marianas Islands invasion.

A good many thousand of these men have visited this section of the park.

Weather conditions in the park

Max. temp. -----67 degrees
Min. temp. -----38 degrees on the 20th and 21st.
Rainfall total-----1.61 inches
Clear days-----13
Partly cloudy days-----7
Cloudy days-----8

Two days were not recorded.

Park inspections by the Superintendent

Superintendent Edward G. Wingate spent one day in the park this month.

While here the Superintendent granted permission to close the crater to hiking. This will ease the problem of trying to keep track of the public while we are so short of help.

Public service contractors

No service was offered the public in the park this month by the Maui Grand Hotel.

Ranger Service

One showing of the 1942 Mauna Loa Eruption pictures was put on for a small party of 4th division Marines at Haiku this month. Approximately 50 men were present.

Increase on decrease in travel

Travel figures for November were about the same as for October with a continued large number of service men visiting the park.

Police protection

The two marines from Kahului Naval Air Station received a \$60.00 fine each for the charges as reported in my October report. The third marine's case has not been heard from yet.

Y. Kage has been released on a \$75.00 bail after he waived hearing before the U. S. Commissioner in Wailuku. His trial will take place as soon as the federal court comes to Maui.

Five service men were turned over to the shore patrol on the 26th for hiking off the trail in the crater after I had warned them not to go in the crater. Every Sunday this month I have been at the Observation station all day and have stopped each truck and car and asked all occupants to stay out of the crater except on written permission.

Destruction of exotic animals

106 goats were killed in the crater this month. Most of them were killed in Kaupo Gap.

One wild dog was killed.

Miscellaneous

Some time in October a Navy plane went up on a routine weather observing flight from Kahului Naval Air Station with a Navy officer pilot and an Navy enlisted meteorologist in it. No word was ever received from the plane and it never returned. Some days later a wrecked plane was seen from the air in the West Maui Range. A search was started to identify the plane and the men. Lt. Comm. Budny finally took over the search and spent about five days with several men in trying to reach the plane but was unsuccessful due to bad weather and the fact that on the first two tries the men were on the wrong ridge. After the third attempt was made by Mr. Budny and many more by interested civilians the commander of the base called the whole thing to a stop and asked me if I would like to try. I accepted, and alone on the 28th after first obtaining all the details learned by Mr. Budny and others I started for the plane at about 7:00 A.M. from the end of the Waikapu Valley road. I reached the plane at 1:30 P.M. and obtained the proper markings from the plane and the lower jaw of the pilot to identify the body. Both men in the plane were badly burned with nothing but bones remaining of their bodies. I returned to the end of the Waikapu Valley road without mishap at 6:00 P.M.

The investigation held later brought out the facts that the plane was the one missing and the teeth in the jaw matched the dental chart of the pilot of the plane.

I was glad to be able to do this for the Navy since they have so often helped me in my work here.

Frank A. Hjort
Frank A. Hjort
Ranger in Charge

Valde
Monthly Report
U.S.G.P.

Memorandum: to Supt. E. G. Wingate, Hawaii National Park

Subject: Job Journal, Guy C. Omer, Jr., November, 1944

- Nov. 1 - Wed - Worked on Hilo Seismograph station. Reinstalled master clock. Installed a new gravity assist on the driving clock. Made new adjustments. Also made morning and evening change of the Bosch-Omori Seismograph.
- Nov. 2 - Thu - Made Mauna Loa seismograph trip. Copied necessary data from a book that had to be returned to the Univ. Library. Made morning and evening change of Bosch-Omori seismograph.
- Nov. 3 - Fri - Made a radio time comparison with our standard clock. Photographed figures from book. Made morning change of the Bosch-Omori seismograph.
- Nov. 4 - Sat - Worked on Kona Seismograph station. Made a very necessary adjustment of the Kona master clock. Cleaned seismograph. Checked batteries (they were bad). Checked driving clock. Checked the amounts of paper, fixing bath, etc. on hand. Talked to Mrs. Miller about seismograph routine.
- Nov. 5 - Sun - Made evening change of the Bosch-Omori seismograph.
- Nov. 6 - Mon - Prepared and turned in my Job Journal for October. Wrote letter for observatory. Made evening change of the Bosch-Omori seismograph.
- Nov. 7 - Tue - Voted in general election. Started to make a temporary installation of a telephone in Fagerlund's new office. Found that the Observatory telephone wiring had been molested by the Army. Made evening change of the Bosch-Omori seismograph.
- Nov. 8 - Wed - Worked in the attic of the Observatory. Traced circuits and reconnected the circuits that the Army had changed. Hence was able to make a temporary installation of a telephone in Fagerlund's new office (floor being laid so no permanent installation made at this time). Made evening change of the Bosch-Omori seismograph.
- Nov. 9 - Thu - Made a radio time check of our standard clock. Research. Made morning and evening change of the Bosch-Omori seismograph.
- Nov. 10 - Fri - Made the Mauna Loa seismograph run. Research. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 11 - Sat - Checked the standard clock at the Hilo seismograph station and readjusted it (someone had moved it out of vertical, so it was not running well -- stopping frequently, etc.). Made evening change of the Bosch-Omori seismograph.
- Nov. 12 - Sun - Made the Mauna Loa seismograph trip. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 13 - Mon - Took traffic count at the Hilo Entrance. C.P.S. Paper work. Made evening change of the Bosch-Omori seismograph.
- Nov. 14 - Tue - Took traffic count at the Hilo Entrance. Prepared a memorandum for Ch. Ranger Fagerlund at his request on the telephones in operation, lines, and all the existing code-rings so that a new telephone directory could be prepared. Made evening change of the Bosch-Omori seismograph.

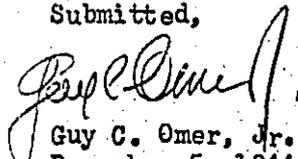
to: Supt. Win(), pg. 2

- Nov. 15 - Wed - Made a permanent installation of the telephone in Fagerlund's new office, the floor now being laid. Wrote several letters for the observatory. Made evening change of the Bosch-Omori seismograph.
- Nov. 16 - Thu - Made the Mauna Loa seismograph trip. Assisted Mr. Finch in interpretative work with a large group of K.M.C. guests. Starting at this date and continuing every day except Sunday down to date, K.M.C. has been including the Observatory on their daily tours. Since only ten or twelve men can be packed into the Observatory seismograph cellar with any safety, and since these groups of people have averaged 20 each time, Mr. Finch and I have been splitting them up into two groups. Each of us taking half of them around to the seismograph cellar, to the seismologist's office (to see seismograms, rock specimens, the plotting board, etc.), and to the relief map of the island, in such a fashion that the two groups are always separated. While this routine task was done nearly every day, I have not entered it on my job record. Also made the morning and evening changes of the Bosch-Omori seismograph.
- Nov. 17 - Fri - Made a radio time check of our standard clock. Copied from book. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 18 - Sat - Made the Mauna Loa seismograph trip. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 19 - Sun - Made evening change of the Bosch-Omori seismograph.
- Nov. 20 - Mon - Finished copying pertinent data from the books due back to the Univ. Library. Wrapped them as one package for mailing. Made evening change of the Bosch-Omori seismograph.
- Nov. 21 - Tue - Had to rewrap books in separate packages because of the 4# franking limit. Checked all telephones on Lines #8 and #15 where I could get into the house (where someone was at home). Replaced the batteries on Bill Pele's telephone. Made evening change of the Bosch-Omori seismograph.
- Nov. 22 - Wed - Checked Headquarters Office phones. Replaced Baldwin's office telephone batteries. Installed Milne's telephone on the wall (found it laying on the floor when I went over to check batteries). Installed a telephone in my office. Made evening change of the Bosch-Omori seismograph.
- Nov. 23 - Thu - Made a radio time check of our standard clock. Started a new seismic world map, discarding the previous try as faulty. Janitor work in cleaning up the Observatory building. This clean-up work is done at odd moments each week and has not been entered on my job journal. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 24 - Fri - Made Mauna Loa seismograph trip. Worked on map. Worked up in Observatory attic and on wall switches until I found the trouble in a hall light that Fagerlund wanted operating for his evening lectures. Checked all lights at the front half of the building and replaced all burnt-out and missing lamps. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 25 - Sat - Worked at the Hilo seismograph cellar. Installed new batteries in the time marking circuit. Brought this circuit back into operating adjustment. Made morning and evening changes of the Bosch-Omori seismograph.

to: Supt. Win, pg. 3

- Nov. 26 - Sun - Made the Mauna Loa seismograph trip. Made morning and evening changes of the Bosch-Omori seismograph.
- Nov. 27 - Mon - worked on map. Janitor. Made evening change of the Bosch-Omori seismograph.
- Nov. 28 - Tue - Made a radio time check of our standard clock. Worked on map (report due at the coming journal club). Made evening change of the Bosch-Omori seismograph.
- Nov. 29 - Wed - Worked on map. Made evening change of the Bosch-Omori seismograph.
- Nov. 30 - Thu - Made the Mauna Loa seismograph trip. After a conference with Mr. Finch decided that Kilauea was showing positive signs of life, so started the agreed upon program for eruption observation. On this day I brought the spectrograph up from its storage place to begin its overhaul and adjustment for use in case of an eruption. Made morning and evening changes of the Bosch-Omori seismograph.

Submitted,


Guy C. Omer, Jr.
December 5, 1944

10-23
(May 1920)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

October, 1944

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.

ARNO B. CAMMERER,
Director.

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November 13, 1944.

MEMORANDUM for the Director:

There follows the monthly report for the month of October, 1944:

Introduction

The most important event of the month was termination of martial law on October 24. This was accomplished by an Executive Order of the President authorizing the designation of a military commander for the Territory of Hawaii and authorizing the military commander to prescribe any part or the whole of the Territory as a military area. The Territory now has the same status as sections of the mainland that were declared military areas at the beginning of the war.

Of secondary interest were the Primary Elections on October 7, that showed the PAC to have much greater strength than was generally believed. Mr. Glen Akina, a Democrat, supported by the PAC was elected outright over Mr. Samuel Spencer for Chairmanship of the Board of Supervisors. Mr. Spencer had been Chairman for many years. All other PAC endorsed candidates were nominated.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 74° and 47°, and at the Haleakala Ranger Station these recordings were 72° and 39°.

Rainfall at Kilauea totalled 2.95 inches and at the Haleakala Ranger station the rainfall totalled 0.71 inches.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month. On October 3, he had a conference with Mr. Frank Carlson, Highway Engineer with the Public Roads Administration. On the 17th, he attended a Boy Scout Executive Board meeting and luncheon at the Hilo Hotel in Hilo. On the 29th, he attended the annual Y.M.C.A. Keymans' and Laymens' Conference.

Selective Service Board meetings were attended throughout the month at Selective Service Board No. 1, Olan, Hawaii.

Cooperating Government Agencies

In the Haleakala section, a Marine M.P. and a Navy S.P. have been

RECEIVED AS FOLLOWS

-2-

sent up to the summit each Sunday to help keep the servicemen in line. This system is proving very satisfactory. A marked decrease in the amount of rubbish at the Observation Station and along the park road has been noticed.

Interpretation

Mr. P. H. Baldwin made three showings of the Mauna Loa eruption film to 317 persons as follows: On the 17th, they were shown to an Army Tank Company, with an attendance of 120 persons, on the 20th, to the Standard School in Hilo to a total of 150 persons, and on the 28th, to the Kilauea Military Camp to a total of 47 persons.

A conducted crater tour by automobile was made to train K.M.C. hostesses and drivers in park lore. Twenty persons attended. Five Boy Scouts were conducted on a bird hike. Two of them were examined and passed in the bird study merit badge. In these activities, the contact hours totalled 315.

Research and Observation

Mauna Loa and Kilauea were both quiet throughout October. Forty-eight seismic disturbances were recorded at Mauna Loa and 26 at Kilauea. Four of the shakes were felt at Park Headquarters while 6 were felt at Hilo. The number of distinctly Mauna Loa shakes was the smallest for the last several months. There was very little movement at any of the cracks measured near Halemaumau or along the Chain of Craters Road.

The Fern Weevil Project was resumed by Ranger Clifton J. Davis after having last worked on it in August, 1941. Fern forest areas revisited on reconnaissance were as follows: Sulphur Banks, Hilo Entrance, Kilauea Iki, Steaming Bluff Trail, Crater Trail, Summer Camp, Lus Manu Crater, Puhimau Crater, Kokoolau Crater, Devil's Throat, Makenopuhi Crater, Napau Crater, and the Tree Molds. Of the aforementioned areas the most serious weevil injury was observed in the fern forest below the Volcano House. Here, weevil infestation penetrated at great depth. A number of Amaumau stipes, (*Sadleria Cyathoides*), were brought into the Rangers' Office for microscopic examination and for parasitic studies. Rearing boxes were prepared and Amaumau stipes placed into these boxes. An observation plot is being established near the Summer Camp for the purpose of determining the rate of spread of the fern weevil.

Experiments with carbon tetrachloride, (drained from defective extinguishers) in controlling the spread of *Tibouchina*, are in progress. Experiments with chemicals, according to Mr. Davis, may prove to be an economical method of eradicating exotic plants from the park.

Ranger Davis has prepared an annotated list of the more important forest insects found in Hawaii National Park and one tube containing 16 vials of insects collected of the native trees has already been mailed to the University of Hawaii for determination. A park insect collection is being built up and this should be of help to those on the staff engaged in research.

Fire Protection

A fire drill was held on October 12, subject - fire hydrants and fire

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-2-

truck operation. A volcano House staff drill was held on October 31.

Forest Protection

A goat drive was held on October 29, with Mr. John Hamili, Contractor. Two-hundred and nineteen goats were sold, and 25 destroyed. Control operations for October resulted in elimination of 1 pig and 248 goats. Twenty-five goats were not reported by oversight in September. These escaped during a drive onto the Ainahou ranch lands.

In the Haleakala section a total of 144 goats were killed in the park. One trip was made on the north rim to the crater in which 67 goats were killed. Over 100 of these goats were killed on the north side of the crater where they are doing the most damage.

Police Protection

Vandalism was evident during the month. The Makaopuhi bench mark was dug up, the smooth lava bottom of Keanakakoi Crater was permanently defaced by name writers, and the Halemauau shrine was further damaged. An Army truck was trailed at 70 m.p.h. on October 4th, but identification was impossible as no number appeared on the rear of the vehicle. The military police were notified.

In the Haleakala section, Y. Kage, driver, and Marie Kim, Mabel Alves, Marine Staff Sgt. G. M. Durham, Marine Staff Sgt. H. J. Kloeckl, and Marine Sgt. R. D. Reister, all passengers of a Chrysler Sedan, were arrested on October 15, about 4:30 p.m. The two girls were later released and Kage charged with speeding in the park, failure to stop at the request of a park ranger and illegal possession of a gun in the park. The Marines were charged with possession of a gun and hunting in the park. Ranger Hjort saw the party hunting below the park and went down to stop them. They met and passed him below the park and continued to hunt above the ranger station in the park. Ranger Hjort waited in his office for them to come down the road. As their car approached he signalled and called them to stop but had to jump to keep from being run over as Kage made no attempt to stop. He then took after them in car #786. They still refused to stop after he caught up with them so he started bumping them as they went around turns. Finally he managed to scare them into slowing down, passed them, and got them to stop. They had thrown away all their pheasants as they fled, but had a box with fresh blood and feathers in it and a .22 cal. rifle.

The two Marines, Durham and Reister from the Kahului Naval Air Station, are being court martialled on November 6th. The other Marine from the 11th Amp. Tractor Base on Maui was evidently given a general court martial but Ranger Hjort has not learned of the outcome as that outfit has since left the island. Kage's case is awaiting the decision of the U. S. Attorney's office in Honolulu.

Also in the Haleakala section, a group of 4 soldiers were arrested on Territorial land for hunting pheasants, and were turned over to the Military authorities.

Trails

HAWAII NATIONAL PARK
HAWAII
The Fern Jungle trail has been cleaned out and the bridge re-built for

RECEIVED AS FOLLOWS

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use by Kilauea Military Camp visitors on their daily crater tours and others who use this trail.

Travel

Travel counts were made on October 10 and 11 at the Hilo Entrance.

In the Kilauea section, civilian visitors were estimated to total 13,400 and military visitors 22,475 compared with 10,118 and 23,041 for October, 1943.

At Haleakala, visitors were estimated to total 5,075 for the month of October, including 4,625 in the armed forces. For the same month last year, civilian visitors were estimated to total 150 and military 950.

Personnel

Mr. Gunnar O. Fagerlund, former Park Naturalist, who has been employed by the Navy as Horticulturist at Pearl Harbor for the past several months, has returned to the Hawaii National Park. He was to enter on duty November 1, in the capacity of Chief Ranger.

Visitors

Mr. J. B. Atherton, Assistant Manager of the Mutual Telephone Co., in Honolulu, and Mr. John Roe, Alien Custodian from Washington D. C., were guests at the Volcano House during the month.

Miscellaneous

Pre-induction military training has begun at the Hilo High School. It is a type of training that many persons had hoped would be added on the Big Island even in peace time.

Some Hawaiian officials believe fishing may replace sugar as the territory's main industry after the war, and equal the fish industry of Alaska and California. They propose that the federal government establish a marine research laboratory in Hawaii, which they envision as the center of fishing operations extending to Japanese mandated islands that may be acquired by the U. S. during the war.

Mr. D. A. Devine, Postmaster of Hilo for a number of years, died suddenly on October 23. He was one of the most generally loved and respected men on the island of Hawaii.

Edward G. Wingate
Edward G. Wingate,
Superintendent

Orig. & 4 copies - Director
c.c. - Regional Director

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

November 9, 1944.

MEMORANDUM for the Superintendent:

The monthly report for October 1944 on activities of the Ranger Division and the Assistant to the Superintendent is submitted:

Police Protection

Vandalism was evident during the month: the Makaopuhi bench mark was dug up, the smooth lava bottom of Keanakakoi Crater was permanently defaced by name writers, and the Halemaumau shrine was further damaged.

An army truck was trailed at 70 m.p.h. on October 4, but identification was impossible as no number appeared on the rear of the vehicle. The military police were notified.

A patrol hike to 10,000 ft. rest house was made. The cabin was in good order but needs fuel.

Fire Protection

A fire drill for the park staff was held on October 12, subject - fire hydrants, fire truck operation. A Volcano House staff drill was held on October 31.

Forest Protection

A goat drive was held October 29, John Hamili, contractor. 219 were sold, 25 destroyed. Control operations for October resulted in elimination of 1 pig and 248 goats. Twenty-five goats were not reported by oversight in September. These escaped during a drive onto the Ainshou ranch lands but should be counted.

Forest insect studies were undertaken by Ranger Davis with completion of the fern weevil project as the immediate objective.

Trails

The Fern Jungle trail was cleaned out and the bridge rebuilt for use by K.M.C. on their daily crater tours.

Picnic grounds at Bird Park and Summer Camp were inspected and discussed for the purpose of getting them into shape for regular use by K.M.C. parties.

Interpretation

The undersigned made three showings of the Mauna Loa eruption film to 317 persons as follows:

October 17	Army Tank Company, Olaa.,	120	persons.
" 20	Standard School, Hilo,	150	"
" 28	K.M.C.	47	"

A conducted crater tour by automobile was made to train K.M.C. hostesses and drivers in park lore. Twenty persons attended. Five Boy Scouts from Pahala were conducted on a bird hike. Two of them were examined and passed in the bird study merit badge.

In these activities the contact hours totalled 315.

Travel

Travel counts were made on October 10 and 11 at Hilo entrance.

Bird Research

Counts were continued. Lua Manu, Hiiaka, and Puu Huluhulu craters were entered on October 4.

A letter was written to Ernst Mayr, American Museum of Natural History, for comments on a short article prepared on the Amakihi.

Administrative work

An estimate of the value of K.M.C. installations, a report on automotive and construction equipment needed after the war, and a memorandum on Hawaii National Park boundary justifications were prepared.

Paul H. Baldwin
Paul H. Baldwin,
Assistant to the Superintendent

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

November 2, 1944.

MEMORANDUM for the Superintendent
(Through the Assistant to the Superintendent)

Subject: Report of activities for the Month of October, 1944.

From October 2, to the 19th, I was on leave.

The broken bridge, on the trail to the lava tube, was rechecked and has now been repaired. One pig was destroyed on pig control.

Time was spent on sign painting and the preparing of park horses for a goat drive which was held in the Pepeiau area, on October 29th and 30th. Twenty-five goats were destroyed, and 219 were delivered to Mr. Jack Hameli.

For the month, one pig was destroyed, 219 goats sold and 25 destroyed.

A. B. Medeiros

A. B. Medeiros,
Ranger

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

October 31, 1944.

MEMORANDUM for the Superintendent
(Through the Assistant to the Superintendent)

There follows my monthly report for October, 1944:

I. Fern Weevil Project

This project was resumed after having last worked on it in August, 1941.

A. Reconnaissance

Fern forest areas revisited on reconnaissance are as follows: Sulphur Banks, Hilo Entrance, Kilauea Iki, Steaming Bluff Trail, Crater Trail (From New Volcano House), Summer Camp, Lua Manu Crater, Puhimau Crater, Kokoolau Crater, Devil's Throat, Makaopuhi Crater, Napau Crater and Tree Molds.

Of the aforementioned areas the most serious weevil injury was observed in the fern forest below the New Volcano House. Here, weevil infestation penetrated at great depth. This infestation is also spreading west on the Steaming Bluff Trail.

Damage was also conspicuous in the Summer Camp Area.

B. Research

A number of Amaumau stipes (*Sadleria Cyatheoides*) were brought into the Ranger's Office for microscopic examination and for parasitic studies.

Rearing boxes were prepared and Amaumau stipes placed into these boxes.

To date, the following insects have emerged from these rearing boxes:

1. Fern weevil (*Syagrius fulvitaris*)
6. Undetermined Coleopterous beetles.
4. Hymenopterous parasites.

Transparent rearing tubes were made for field studies at/Summer
the

Camp. Two of these tubes were placed over living fern stipes and frequent observations are being made.

An observation plot is being established near the Summer Camp for the purpose of determining the rate of spread of the fern weevil.

Random collecting of *Sadleria Cyatheoides* has yielded the following representative invertebrates:

(a) Insects

Coleoptera

Syagrius fulvitaris (Fern weevil)
Unidentified bark beetles

Collembola

Spring tails - Very numerous

Homoptera

Leaf hoppers
Mealy bugs

Diptera

Drosophila

Lepidoptera

Case bearers - Family Hyponomentidae
Undetermined larvae feeding on cernate buds.

Hemiptera

Predacious plant bugs.
Leaf bugs - Miridae

Hymenoptera

Ichneumon parasites
Brachnid "
Undetermined "

(b) Miscellaneous invertebrates

Arachnids

Many species of spiders;
Red and black mites.

Molluscs

Snails, two or more species.

Diplonods

Millipedes. (suspected of boring into stipes)

Crustaceans

Sow bugs.

II. Pig Damage

While on weevil reconnaissance in the Chain of Craters area, increasing destructiveness by wild pigs was noticed. Many Amaumau ferns were uprooted and the ground bared of its protective cover. It looked as though a bulldozer had passed through.

Abundant pig signs were seen in the Napau and Kilauea Iki Crater vicinities. In the latter they have been very active about half way down the East end of the crater, uprooting vegetation, boring the slopes and causing small landslides across the trail.

Damage to the same territory covered in 1941 was negligible.

III. Experiments

Experiments with carbon tetrachloride, (drained from defective extinguishers) in Tibouchina, are in progress.

Experiments with chemicals may prove to be an economical method of eradicating exotic plants from the park.

IV. Roads

The road between the lava tube and Chain of Craters junction is in need of patching. Some of the depressions are increasing in size weekly and if repaired now, the cost of maintenance will be kept at a minimum.

V. Preparation of an annotated list of the more important forest insects found in Hawaii National Park.

Work on this project has commenced and one tube containing 16 vials of insects collected of the native trees has already been mailed to the University of Hawaii for determination.

A park insect collection is being built up by the undersigned, and this should be of help to those on the staff engaged in research.

Messrs. Baldwin and Mitchell have been contributing specimens caught in their field work to this collection.

Respectfully submitted,
Clifton J. Davis
Clifton J. Davis,
Ranger

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

November 6, 1944.

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for October:

Mauna Loa and Kilauea were both quiet throughout October. Forty-eight seismic disturbances were recorded at Mauna Loa and 26 at Kilauea. Four of the shakes were felt at Park Headquarters while 6 were felt at Hilo. The number of distinctly Mauna Loa shakes was the smallest for the last several months.

There was but little movement at any of the cracks measured near Halemauau or along the Chain of Craters Road.

The following table shows some of the data collected during October:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Oct. 8	Mod. NE	8	5.25
15	Mod. SE	6	2.50
22	Mod. NNE	5	2.25
29	Slight NE	4	1.75

Work of R. H. Finch:

Most of the time was spent on seismographic routine. Material and photographs for an account of Dr. T. A. Jaggar and the Hawaiian Volcano Observatory were collected at the request of the Chicago office of the National Park Service. This necessitated copying some photographs and taking others. A little time was devoted to the Community Chest drive.

Work of G. C. Omer:

In addition to assisting in the regular seismographic routine he repaired the Mauna Loa seismographic timing circuit, checked the Observatory clock once a week and worked on the Hilo and Bosch-Omeri clocks. Whenever possible, he worked on travel time for Hawaiian earthquakes.

R. H. Finch

R. H. Finch,
Volcanologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala

Wailuku Maui
Nov. 1, 1944

Red
11/7/44
G.H.B.
G.O.F.

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of October 1944 is respectfully submitted;

Introduction

The Old Rest House, renamed The Silversword Club by the Marines, opened without fanfare this month. A limited number of Marine officers enjoyed staying overnight in the new club. The cool air and the isolation of the spot does not appeal to the majority of the officers but the ones who do come up enjoy it more because of these features and especially appreciate the fact that it is not overcrowded.

Weather conditions in the park

Max. temp.-----72 degrees between the 13th and the 16th.
Min. temp.-----39 degrees on the 4th, 8th, and 24th.
Rainfall total-----0.71 inches.
Clear days-----20
Partly cloudy days--9
Cloudy days-----2

Public Service Contractors

The Maui Grand Hotel has offered no service of any kind to the public in the park up to the present.

Cooperating government agencies

A Marine M. P. and a Navy S. P. have been sent up to the summit each Sunday for the past two Sundays to help keep the service men in line. This system is working fine. A marked decrease in the amount of rubbish at the Observation Station and along the park road has been noticed since these men started coming up.

Cooperating non government agencies

Dwight Baldwin, owner of Kaupo Ranch, has started letting groups of Marines from the 4th division accompanied by officers camp at one of his water tanks in Nuu for the purpose of hunting goats on his land and in Territorial land. The first such group just completed its hunt. They stayed from the 23rd to the 28th and killed 319 goats.

Mr. Baldwin reports that he has been forced to remove the cattle from one large area because the goats have descended into the area in such large numbers that there is now insufficient feed for his cattle.

I spent several days showing the Major in charge of the group the various ridges that can be negotiated in Nuu. We back-packed down from Haleakala Peak into the gulches and climbed back out over the top.

An interesting side light on the trip was a grove of 80 some odd Koa trees ranging from 2 to 3 ft. in diameter. These trees stand on an apparently dry ridge on the driest part of this island. For a time we both marveled at their ability to survive but as soon as the afternoon fog came in we ceased to marvel. The instant the fog enveloped the trees it began condensing on the foliage and a regular rain was set up under each tree. Evidently this grove attains nearly all its water in this manner. Unfortunately this beautiful grove has only a short while to live. So great has been the grazing and travel by the goats in this area that the soil is being blown and washed away by the winter rains. Several of the Koas have fallen over and all have a large portion of their root system exposed. Even the pamakani has been eaten to the ground in this area.

Police Protection

Y. Kage, driver, and Marie Kim, Mabel Alves, Marine Staff Sgt. G. M. Durham, Marine Staff Sgt. H. J. Kloeckl, and Marine Sgt. R. D. Reister all passengers of a Chrysler Sedan were arrested on Oct. 15, at about 4:30 P.M. The two girls were later released and Kage charged with speeding in the park, failure to stop at the request of a Park Ranger, and illegal possession of a gun in the park. The Marines were charged with possession of a gun and hunting in the park.

I saw the party hunting below the park and went down to stop them. They met and passed me below the park and continued to hunt above the ranger station in the park. I waited at my office for them to come down the road. As their car approached I stood in the middle of the road waving my arms and yelled "stop". I had to jump to keep from being run over as Kage made no attempt to stop. I then took after them in # 786. They still refused to stop after I caught up with them and honked my horn and yelled at them so I started bumping them as they went around turns. Finally I managed to scare them into slowing down and passed them and got them to stop. They had thrown away all their pheasants as they fled but had a box with fresh blood and feathers in it in the car and a .22 cal. rifle.

The two Marines, Durham and Rister from Kahului Naval Air Station are being court martialed on Nov. 6th. The other Marine from the 11th Amph. Tractor Base on Maui was evidently given a general court martial but I have not learned of the outcome as that outfit has since left the island.

Kage's case is awaiting the decision of the U. S. Attorney's office in Honolulu. It seems that the Attorney has the power to appoint the U. S. Commissioner on Maui to try all petty cases for the duration of the war.

One group of 4 soldiers were arrested on Territorial land for hunting Pheasants and were turned over to the military authorities.

Destruction of predatory animals

144 goats were killed in the park this month. One trip was made on the north rim to the crater in which 67 goats were killed. Over 100 of these goats were killed on the north side of the crater where they are doing the most damage. A little study of where the goats run after being shot up from below Hanakaui netted good results. One group slipped in and shot the goats from the base of the mountain and the rest of us hid along their usual route of escape. The goats became so confused after the second group opened fire that some went all the way back to the bottom only to be shot at again. Some simply gave up and stood under a cliff.

Frank A. Hjort
Frank A. Hjort
Ranger-in-Charge

Goldie
Wingate
Ref
5/10/44

OK

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal, October, 1944, for Guy C. Omer, Jr.

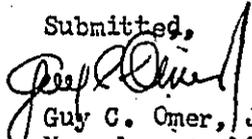
- Oct. 1 - Sun - made the Mauna Loa Seismograph run. Changed the Bosch-Omeri Seismograph both morning and evening
- Oct. 2 - Mon - Various telephone work. Installed new switchboard batteries. Traced trouble on part of #10 circuit. Found trouble in the Hilo Entrance telephone drop. All other sub-sets on this branch okay. Made and installed a terminal strip on #10 line in the cable termination box near Obs. to make servicing of #10 line easier. Evening change of Bosch-Omeri Seismograph
- Oct. 3 - Tue - Made some connecting blocks and gathered equipment to rebuild the Hilo Entrance drop. Was home in bed during the afternoon - Sick.
- Oct. 4 - Wed - Repaired the Hilo Entrance telephone drop. This sub-set is now working well. Started making a lightning arrester for Mauna Loa Simplex. Prepared Job Journal for Sept. Made evening change of Bosch-Omeri Seismograph
- Oct. 5 - Thu - All Obs. morning routine. Made Mauna Loa Seismograph run. Worked on Mauna Loa Simplex lightning arrester. Made evening change of Bosch-Omeri Seismograph
- Oct. 6 - Fri - Made morning and evening change of Bosch-Omeri Seismograph. Made a radio time check of the Obs. standard clock. Had a long discussion with Mr. Finch as to the design of a small portable seismograph to be used during a Mauna Loa eruption to study Harmonic Tremor. Went to Hilo during afternoon to try to get a Dental appointment.
- Oct. 7 - Sat - Made morning and evening change of the Bosch-Omeri Seismograph. Made Mauna Loa Seismograph run. Installed the new lightning arrester at the Mauna Loa Seismograph cellar.
- Oct. 8 - Sun - made evening Bosch-Omeri Seismograph change.
- Oct. 9 - Mon - Made a radio time check of the Obs. standard clock. Started a research project on Hawaiian Travel Times. This is a long time project for which Mr. Finch had been thinking of bringing a man over from the mainland after the war. Mr. Finch has not been satisfied with the present travel time data since many of his recent earthquake epicenters have not been good. On this and following days, I worked out the mathematical theory of a new type of approach to travel time work. I finally presented this analysis along with a proposed program for travel time research to Mr. Finch. It was agreed to work on this project after the current projects are completed. Made evening change of the Bosch-Omeri Seismograph.
- Oct. 10 - Tue - Took the morning shift of the traffic count at Hilo Entrance. Worked on Travel time research. Made the evening change of the Bosch-Omeri Seismograph.
- Oct. 11 - Wed - Took the afternoon shift of the traffic count at the Hilo Entrance. Worked on Travel time research. Made the evening change of the Bosch-Omeri Seismograph.

- Oct. 12 - Thu - Made morning and evening changes of the Bosch-Omori Seismograph. Took a radio time check of the Obs. standard clock. Readjusted the Obs. standard clock. Worked on travel time research.
- Oct. 13 - Fri - Made morning and evening changes of the Bosch-Omori Seismograph. Made the Mauna Loa Seismograph trip. Travel time research. Registered to vote in the General Election.
- Oct. 14 - Sat - Made morning and evening changes of the Bosch-Omori Seismograph. Made a radio time check of the Obs. standard clock. Gave a written report of the Travel Time research and a suggested program of work to Mr. Finch for his approval.
- Oct. 15 - Sun - Made morning and evening changes of the Bosch-Omori Seismograph. Made the Mauna Loa Seismograph trip.
- Oct. 16 - Mon - Cleaned switchboard code-ring repeater. Had a report of some unknown trouble on #11 line. Checked the entire line. Found the Makaopuhi sub-set to be in bad-order. Repaired this telephone. All of #11 line is now in working order. Made evening change of the Bosch-Omori Seismograph
- Oct. 17 - Tue - Made a radio time check of the Obs. standard clock. Made electrical tests of #10 line (a little trouble, not too bad). Cleaned and arranged tools. Made evening change of Bosch-Omori Seismograph.
- Oct. 18 - Wed - Designed an electrical test set to be used on telephone, Obs., and electric appliance servicing. began assembling parts. Made evening change of Bosch-Omori Seismograph.
- Oct. 19 - Thu - Made Mauna Loa Seismograph trip. Morning and evening Bosch-Omori routine. Started to draw a map for H.V.O.
- Oct. 20 - Fri - Made a radio time check of the Obs. standard clock. Worked on map. Morning and evening Bosch-Omori Seismograph routine.
- Oct. 21 - Sat - Made the Mauna Loa Seismograph trip. Made morning change of the Bosch-Omori Seismograph.
- Oct. 22 - Sun - Made the evening change of the Bosch-Omori seismograph.
- Oct. 23 - Mon - Worked on test set. Made evening change of the Bosch-Omori Seismograph.
- Oct. 24 - Tue - Worked on the Hilo Seismograph Station. Tried to repair the driving clock at Hilo and so continue the station in operation. Found it impossible to repair clock on the spot. This driving clock and the Hilo standard clock removed and brought up to Park, thus closing down the station. Made evening change of the Bosch-Omori Seismograph.
- Oct. 25 - Wed - Made a radio time check of the Obs. standard clock. Worked on defective clocks. Repaired a new clock for the Bosch-Omori Seismograph drive (the old one had been giving trouble). Made evening change of the Bosch-Omori Seismograph.
- Oct. 26 - Thu - Made morning and evening change of the Bosch-Omori Seismograph. Finished working on the Hilo driving clock. Worked on map. Wrote letter for H.V.O. C.P.S. paper work.

E. G. Wingate Pg. 3

- Oct. 27 - Fri - Made the Mauna Loa Seismograph trip. Reinstalled the Hilo Seismograph driving clock. Made morning and evening changes of the Bosch-Omori Seismograph.
- Oct. 28 - Sat - Made a radio time check of the Obs. standard clock. Worked on map. Installed the new Bosch-Omori driving clock. Made the morning and evening changes of the Bosch-Omori Seismograph.
- Oct. 29 - Sun - Made the Mauna Loa Seismograph trip. Made the morning and evening changes of the Bosch-Omori Seismograph.
- Oct. 30 - Mon - Repaired the Hilo Standard clock and hung it up in the Obs. basement for a running test. Had some trouble to clear up on the simplexed time tick circuit. Made evening change of the Bosch-Omori Seismograph.
- Oct. 31 - Tue - Made the Mauna Loa Seismograph trip. Made a pulley system to be installed at the Hilo Seismograph station as a gravity assist on their driving clock. Changed the gravity assist of the Bosch-Omori clock and ground a flat on the clock shaft to make mechanical system lock together better. Made evening change of the Bosch-Omori Seismograph.

Submitted,


Guy C. Omer, Jr.
November 6, 1944

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

September, 1944

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.

ARNO B. CAMMERER,
Director.

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October 26, 1944.

MEMORANDUM for the Director:

There follows the monthly report for the month of September, 1944:

Introduction

Work was largely routine during the month. A request from the army for additional new construction at the Kilauea Military Camp and contemplated recreational activities there brought the matter of this camp's presence in the park to the fore. Also bearing on this and other army activities in the park was the report that a proclamation ending martial law in the Territory of Hawaii was being prepared for the President's signature. Considerable thought was given to these matters.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 75° and 50°, and at the Haleakala ranger station these recordings were 70° and 39°. Rainfall at Kilauea totalled 0.73 inches and at the Haleakala ranger station the rainfall totalled 0.55 inches.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month. On the 12th he spoke to a group of Army inductees at Oloa, Hawaii. On the 19th, he attended a Boy Scout meeting in Hilo, and on the 20th, he attended a Y.M.C.A. Board meeting. On the 22nd, he attended a Social Workers Conference in Hilo, and was present at the same conference which was held at the Volcano Y.M.C.A. on Sunday, the 23rd. On the 9th he conferred with Mr. Frank Carlson, P.B.A. relative to the post-war road program in the park. Mr. Carlson was to go over the road system and make recommendations. On the 21st, he and Mr. Baldwin conferred with, or were lectured by, local army officers on proposed army construction and other activities in the park. Social

Cooperating Government Agencies

The ranger-in-charge at Haleakala reports that the new unauthorized army construction at the summit is about complete and the base camp expansion nearing completion.

Excellent cooperation was given by the navy which at the ranger's request

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changed a previous order requiring all officers when off the road to carry firearms to read, "No firearms will be carried by personnel on hiking parties within limits of the park without permission of the park authorities." This request was necessitated by numerous infraction of the rules and damage to signs etc., by indiscriminate shooting.

Interpretation

On September 21, a group of 26 girl scouts was conducted on a hike, shown the Mauna Loa eruption movies, and on the 22nd, given a bird talk.

Research & Observation

Usually heavy steam clouds were observed over Mokuawewee during the afternoons of September 11, 12 and 16. Otherwise, both Mauna Loa and Kilauea were quiet in September. 3 of the 19 earthquakes recorded at Kilauea were strong enough to be felt locally. They appear to have originated under the northern end of Kilauea. A total of 48 shakes were recorded on the Mauna Loa seismograph. A majority of the Mauna Loa shakes originated along the northeast rift. A majority of the cracks around Haleaunau opened slightly during September. At the Devil's Throat and along the Chain of Craters road, a few showed a slight closing.

Evidence of interest in park birds aroused by the recent article "Birds of Hawaii National Park" in Audubon Magazine was shown by the University of Hawaii Librarian's request for three additional copies of the reprint. The article was reviewed before the Honolulu Audubon Society by Dean Amadon, former ornithologist at the American Museum of Natural History.

A short article on the Amakihi was written featuring an unusual specimen found in the park.

A mystery of long standing was solved on a recent Mauna Loa trip by Paul H. Baldwin. He has kept for 3½ years a plover with one wing found at 6,000 feet, Mauna Loa. On this trip he found another one-winged plover at 9,000 feet. The wing had been sheared off in a collision with the telephone wire. A dead plover was seen close by. The line must account for a half dozen or more every year. It is also dangerous to Nene between 6,000 and 9,000 feet elevation.

Mr. Arthur Mitchell, Assignee, has been spending three days of each week making dropping analysis of the Nene, the Hawaiian Goose, in connection with its food habit studies. He has made microscopic analyses of 215 droppings, and has yet this many more to work on. The work is done under the supervision of Mr. Paul Baldwin.

Fire Protection

A fire drill for Volcano House employees was held on the 28th, with very good attendance and one for the park staff on the 30th.

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Forest Protection

Two goat drives were held in the Hilina Pali - Puu Kapukapu area but many goats escaped on both. The total number eliminated from all work was 122. Three pigs were destroyed.

In the Haleakala section, a total of 54 goats were destroyed.

Police Protection

Two cases of indiscriminate shooting in the Kilauea Section occurred both endangering visitors. One case had to be dropped for lack of any evidence as to who was responsible but the other involving navy personnel is being followed up though with little cooperation from the local navy commander.

Signs

In the Haleakala section, a new sign was placed in the park this month along the road between the Ranger station and the Army camp. It reads, "No Guns Allowed In The Park." Several men cautioned about shooting in the park complained that there was no sign to the contrary. This was done after conference with army and navy officials on Maui.

Travel

Travel counts were taken on September 23 and 24.

In the Kilauea section civilian visitors were estimated to total 4,480 and military 4,575 compared with 4,400 and 8,330 for September 1943.

At Haleakala, visitors were estimated to total 9,660 for the month of September including 9,060 in the armed forces. For the same month last year, civilian visitors were estimated to total 225 and military 1,170. In Haleakala the large number of military personnel visiting the park was due to the presence of a marine division on the island.

Publicity

Reprints of the Director's article, "The National Park in Wartime", were sent to a number of local people and newspapers. The Hilo Tribune Herald, on September 30, made this the subject of an appreciative editorial.

Personnel

Mr. Clifton Davis, formerly of Kauai, recently joined the Hawaii National Park Ranger staff.

Visitors

Mr. George Armitage, Manager of 'Hawaiian Service' in Honolulu, and

RECEIVED AS FOLLOWS

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President of "Hui-O-Pele", was a guest at the Volcano House during the month, as was Mr. Frank Carlson, Highway Engineer of the Public Roads Administration.

Miscellaneous

During hearings before the Civil Aeronautic Board, Mr. I. F. Hampel, who is statistician for the United Airlines, told the Civil Aeronautics board that his company could link more cities with Hawaii than any other airline. He said United already has facilities in Los Angeles and San Francisco and thus could operate service to Hawaii cheaper than a company without such an advantage. Mr. Lesley Craven, Attorney for Hawaiian Airlines, took exception to an exhibit sponsored by Hampel showing the interlocking directorates between Hawaiian Airlines and the so-called "Big Five" might be exerted indirectly on Hawaiian Airlines, but emphasized that he did not seek to prove that such control actually existed. He said United felt the CAB might consider it in the public interest to give the route to a company free of such connections. He also said United planned two round trips daily to Honolulu, weather permitting.

A post-war construction program for the territory of Hawaii costing approximately 200 million dollars was outlined to the Hilo Rotary Club by Mr. Daniel F. Balch, who is head of the Territorial Department of Public Works.

The press reports a proclamation to end martial law in Hawaii is now before President Roosevelt, and is expected to be signed shortly. The source said the proclamation will return Hawaii to its prewar status excepting for certain provisions of the exclusion act of 1942 which will remain in force.

Expansion of the Hawaii National Park to include the Kalapana area, the summit area of Mauna Kea and Waipio Valley, has been urged by the Hilo Lion's Club civic improvement committee.

Edward G. Wingate,
Superintendent

Orig. & 4 - Director
c.c. - Regional Director

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

October 11, 1944

MEMORANDUM for the Superintendent:

The monthly report for September 1944 of activities of the Ranger Division and the Asst. to the Supt. follows:

Police Protection

Two cases of indiscriminate shooting were followed up, both without success. Shooting into Kilauea Iki crater September 1, interrupted a guided hike of 26 Girl Scouts, and dangerous shooting at Bird Park almost caused the injury of KMC guests. In the former case it could not be determined who did the shooting. In the latter it was naval personnel. Lack of cooperation from the navy prevented any follow-up work on the personnel involved.

The new outfit at the CCC camp was contacted and were told about park policies and regulations with the idea of preventing trouble before it starts.

A patrol was made to 10,000 feet and everything at the rest house found in order.

Fire Protection

Ranger Davis accomplished the quarterly fire and sanitation report. A fire drill for Volcano House was held on the 28th, with very good attendance, and one for the park staff on the 30th.

Forest Protection

Two goat drives were held in the Hilina Pali-Puu Kapukapu area but goats escaped on both. The total number eliminated from all work was 122. Three pigs were destroyed.

Sumner was requested to remove a steer from the fenced koa plot below 6-tanks and our men repaired the fence.

2000 rounds of 30-06 ammunition was received from Atkinson in return for including him in a goat control party.

Gun racks were installed in the former dark-room.

Telephone

A short of long standing was finally located and eliminated from

line 10, allowing the timing circuit to operate again. Line 11 was repaired.

Travel

Counts were taken on September 23 and 24.

Interpretation

On September 21, a group of 26 girl scouts was conducted on a hike, shown the Mauna Loa movies, and on the 2nd given a bird talk.

Evidence of interest in park birds aroused by the recent article "Birds of Hawaii National Park" in Audubon Magazine was shown by the University of Hawaii Librarian's request for three additional copies of the reprint. The article was reviewed before the Honolulu Audubon Society by Dean Amadon, former ornithologist at the American Museum of Natural History.

A short article on the amakihi was written featuring an unusual specimen found in the park.

A mystery of long standing was solved on the Mauna Loa patrol trip. The writer has kept for 3½ years a plover with one wing found at 6000. On this trip he found another one-winged plover at 9000. The wing was sheared off in a collision with the telephone wire. A dead plover was seen close by. The line must account for a half dozen or more every year. It is also dangerous to Nene between 6000 and 9000 feet.

Miscellaneous administrative work

The park photo file was brought up to date.

Some training in operating observatory shop equipment was given to the writer by Bert Loucks.

Paul H. Baldwin

Paul H. Baldwin,
Asst. to the Supt.,

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

September 30, 1944.

MEMORANDUM for the Superintendent

(Through the Asst. to the Superintendent)

Subject: Report of activities for the Month of September, 1944;

A large portion of time was spent repairing the telephone line, #10, in the Mauna Loa section, and preparing horses and riding equipment for goat drives.

Two goat drives were performed around the areas of Hilina, Kaone and Halape. 68 goats were delivered to Lewi De Leon and 27 were destroyed by fire arms. Two pig controls were performed in the Chain of Craters area. 3 pigs were destroyed. Goat control work was performed at Kahalii and in the Apua section. 11 goats were destroyed during this hunt.

Time was spent shoeing park horses for goat drives. 2 goats were destroyed in the Mauna Loa section and 2 at Kipuka Ahiu. For the month of September, 110 goats were cleared away from park lands and one bull from the Napau section.

The telephone line at the ranger station, line 10, and also line 11, in the Ainahou section, were repaired.

The broken down fence around a Koa section at Ohikea, in the Mauna Loa section, was repaired. This section of fence was broken down due to a large fallen Koa tree.

Some work was done building gun racks in the former photography room and a travel count was performed at the Hilo Entrance.

A. B. Medeiros
A. B. Medeiros,
Ranger

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

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A. B. Medeiros
A. B. Medeiros,
Ranger

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

October 2, 1944

MEMORANDUM for the Superintendent:
(Through the Asst. to the Supt.)

Subject: Monthly report, September, 1944.

I. Orientation

E.O.D. on 18 September and reviewed literature and reports on Fire and Sanitation Inspection.

II. Fire and Sanitation Inspection

Refer to quarterly report, dated 28 September, 1944.

III. Goat Drive, Hilina Pali country.

Goats numerous and good examples of destructiveness observed on bedding grounds at Kaone.

Collected insects on native vegetation at Kipuka Nene, Kaone, and preserved same.

IV. Travel Count

Spent the equivalent of one day making travel counts at the Hilo entrance.

V. Fire Drill

Participated in fire drill under the direction of Asst. to Sup't Paul Baldwin. Operation of pump and engine explained, as well as various pieces of fire fighting equipment.

Responded to mock fire at Administration building, and I believe this helped a great deal in helping the men to understand the various steps in fighting a fire.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger

Wedge Monthly Report

Memorandum: to Mr. E. G. Wingate, Superintendent, Hawaii National Park

Subject: Job Journal for September, 1944 - Guy C. Omer, Jr.

Sept. 1 - Fri - Last day of Mauna Loa radio communication trials.

AS a Mauna Loa eruption seems probable in the not too distant future, Mr. Finch and I had been considering the various possible methods of communication between parties at the summit and the Headquarters Area. Telephone, courier, heliograph, and other systems did not seem too satisfactory. It seemed that radio communication would be the quickest and most flexible 24-hour communication. Accordingly, a test was arranged through the excellent cooperation of the U.S. Army Signal Corps. They furnished some of their light-weight pack sets (the "Walkie-Talkie", radio-telephone communication, easily carried by one man). It was found by an actual test on the mountain side to have a range of 15 miles, which is more than ample.

Sept. 2 - Sat - Worked with Tony on Telephone Line #10. We cleared some brush from the line, cut the K.M.C. drop off completely. We found the Dormitory phone in bad order. It was removed. We cleared off some dangling wires at the Territorial Forestry Cottage. I also made the evening change of the Bosch-Omori Seismograph

Sept. 3 - Sun - Sick in bed at home

Sept. 4 - Mon - Still sick in bed

Sept. 5 - Tue - Still sick in bed

Sept. 6 - Wed - Still sick, but returned to the Obs. to do some odd light work. I took a radio time check of our Obs. clock and then disconnected the receiver and returned it to Loucks for his use while here. I worked on the bad phone which was removed from the Dormitory. Made evening change of the B.O. Seismo.

Sept. 7 - Thu - Made the Mauna Loa Seismo trip. Changed the B.O. Seismo both morning and evening. Started a research project at Mr. Finch's direction. This project is to correlate the world-wide secular magnetic changes with Seismicity. There is a fair correlation and Mr. Finch wants it worked up and published as a short paper. This work has been done at odd free moments when other H.V.O. work would allow.

Also morning and evening change of the
Sept. 8 - Fri - Bosch-Omori Seismograph, morning and evening. Research.

Sept. 9 - Sat - Bosch-Omori Seismograph, morning and evening. Research.

Sept. 10 - Sunday - Evening change, Bosch-Omori

Sept. 11 - Mon - Worked on Telephone Line #10. Made various electrical tests to discover the source of trouble. Found a short in the Headquarters area. Cleared this short. Threw the various switches back into position and restored service from Hilo Entrance to the Kau Entrance. There still was trouble on the Mauna Loa section of the line. Made some changes on the junction pole at Obs. to make testing easier. Made evening change, B.O. Seismo.

Sept. 12 - Tue - Worked on #10 line. Walked part of the Mauna Loa line. Found broken pole and swinging short. Made evening change, B.O. Seismo.

Sept. 13 - Wed - Repaired Dormitory telephone and reinstalled it. Cleared swinging short. Walked an additional section of the Mauna Loa line.

Memo: Supt. Wingate, pg. 2

Sept. 14 - Thu - Morning and evening change, B.O. Seismo. Research.
C.P.S. paper work.

By C.P.S. paper work, I mean items such as the preparation of this journal, the preparation of food requisitions, the keeping of accounts as to food allowances and expenditures.

Sept. 15 - Fri - Made the Mauna Loa Seismo. trip. Made morning and evening change of the B.O. Seismo. Research.

Sept. 16 - Sat - Made morning and evening change, B.O. Seismo. Research. Called on Lt. MacClellan, the Signal Officer of this island. He will furnish three "Walkie-Talkies" complete with spares and men to operate them upon a few hours notice as to an eruption or the good chance of an imminent eruption. One radio to be set up at Puu Ulaula, another at the summit. If telephone line from Puu Ulaula to Park Headquarters should be out, the third radio to be set up at K.M.C. to relay messages. If Puu Ulaula line is in operation, the third radio can go up to the summit rest-house. Capt. Schultz had contacted Lt. MacClellan earlier and had laid the ground-work for this arrangement.

Sept. 17 - Sunday - Made the Mauna Loa Seismo. trip. Took weather observations. Changed Vertical Seismo. Change B.O. Seismo., both morning and evening.

Sept. 18 - Mon - Walked the rest of the Mauna Loa telephone line. Found a pole down at Six Tanks and found wire in trees about $\frac{1}{2}$ mile below this point. Evening change of B.O. Seismo.

Sept. 19 - Tue - Made the Mauna Loa Seismo. trip. Reinstalled the radio at the Obs. and took radio time check of the Obs. clock. Took care of the Obs. while Mr. Finch was in town. Made evening change of the B.O. Seismo.

Sept. 20 - Wed - Repair work on the Park Office telephone switchboard. Worked on Bill Peleholani's telephone. Made evening change of B.O. Seismo.

Sept. 21 - Thu - Made Mauna Loa Seismo. trip. C.P.S. Paper work and Research. Changed B.O. Seismo. morning and evening.

Sept. 22 - Fri - Changed B.O. Seismo. morning and evening. Made a radio time check with Obs. clock. Set clock back. Brought Obs. clock records up-to-date. Did some typing for the Obs. Some research.

Sept. 23 - Sat - Made Mauna Loa Seismo. trip. Change B.O. Seismo. morning and evening. Research.

Sept. 24 - Sunday - Made evening change of Bosch-Omori Seismograph

Sept. 25 - Mon - Made a radio time check of Obs. clock. Spent the rest of day at end of Truck Trail. Installed an elaborate ground system at Seismo. cellar. Installed a new repeating coil back of corral. Reconnected the telephone line to Puu Ulaula. All of #10 telephone line is now operating. My assignment was to try to get the time tick to operate at the Mauna Loa Seismograph cellar (simplex on #10 line from the master clock at the Obs.). Made evening B.O. Seismo. change.

Sept. 26 - Tue - Made another radio time check of Obs. clock. Worked on the time circuit at the Obs. Took traffic count at Hile Entrance during the afternoon. Made Evening change of B.O. Seismo.

Sept. 27 - Wed - Raised voltage on time circuit. Installed rheostat in time circuit at Bosch-Omori cellar. Checked with Mr. Finch (who was at Mauna Loa cellar), found time circuit still not working. Borrowed a multi-meter from K.M.C. switchboard, checked the entire Mauna Loa time circuit electrically. Found the trouble!

I would like to add a note at this point. I borrowed the multi-meter from K.M.C. in desperation. Actually the man who loaned it to me at K.M.C. could get into difficulties with his commanding officer for lending out U.S. Army equipment, if it were known. However, it became evident after two days of work that the trouble in the time circuit would be found only by use of a test instrument.

One cannot tell whether a given unit of electrical equipment is operative or not by merely looking at it. Without a test instrument, electrical equipment can be serviced only by replacing every part in the circuit with a new part, one by one, until the system starts to work again. This is not only wasteful of time, but is quite wasteful of material.

By the use of a simple multi-meter (costing between \$12 to \$15) reading resistance, voltage, and current, one can tell whether a given component of an electrical circuit is operative at a glance. This makes for servicing which is quicker, better, and cheaper.

I strongly urge the Park to purchase such a meter. It would make possible the servicing of all types of electrical equipment, viz: telephone lines, radios, electric stoves, motors, H.V.O. electrical equipment, etc. Jess owned such a meter, I understand, and used it to service telephone lines while he was here.

Sept. 28 - Thu - Made morning and evening B.O. Seismo. changes. Lowered line voltage of the H.V.O. time circuit. Repaired relay. Reinstalled relay at Mauna Loa cellar. The time circuit is now operating perfectly at the Mauna Loa cellar for the first time in nearly a year.

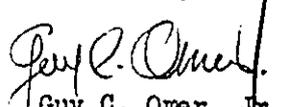
The re-establishment of these time marks on the Mauna Loa record became quite important lately because of a marked increase in small Mauna Loa quakes. The time marks were needed for a more accurate determination of their epicenters and a more accurate earthquake record.

Sept. 29 - Fri - Made the Mauna Loa Seismo. trip. Found that now the Bosch-Omori time relay was not operating, altho the Mauna Loa relay was working nicely. Picked up a spare 80 type rectifying tube down at Hilo for a spare on the time circuit. Made morning and evening B.O. Seismo. changes.

Sept. 30 - Sat - Took a radio time check of the Obs. clock. Made morning and evening B.O. Seismo. changes. Repaired the Bosch-Omori time circuit so that it too operates nicely. Raised the line voltage of the time circuit a bit.

The time tick, which is simplexed on #10 telephone line, is a short impulse each minute with a longer one each hour. At the earlier operating voltage, which was quite high, a bad shock was given to whoever might be working on this line. The shock was strong enough to knock a man off a pole if his spikes were not set in tightly. Tony and Thompson both complained quite rightly about this. I have now remedied this situation by improving the circuit and hence setting the operating voltage quite low. I have worked on #10 telephone line several times in the following week and I have never been made aware of the time tick in any way.

Submitted,


Guy C. Omer, Jr.
October 4, 1944

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

Valde
Monthly Report

September 30, 1944

Work Report for June, July, August, and September, 1944:

Three days each week are spent doing work under the direction of the maintenance division. This work consists mostly in the repairing of roads which involves the hauling of rock and sand to the rock crusher and the working with the road-repairing machinery. Other days are spent in the upkeep of the lawns about the several uninhabited park residences, the hauling and cutting of firewood, repairing cattle guards, and other miscellaneous jobs.

The other three days of each week are spent under the direction of Mr. Baldwin. This consists mostly of making dropping analysis of the Nene, the Hawaiian goose, in connection with its food habit studies. I have made microscopic analyses of 215 droppings, and have yet this many more to work on. Other work consists in helping in the goat drives, reading the rain gauges, and attending to botanical work at the Naturalist's office.

I have not yet found an opportunity to continue with the work I started in landscaping the area in front of the Volcano House. Of the plantings I had made there in April and May most of them are alive and growing, but all the cultivated area between the plantings has grown up to weeds. I expect to have time soon to make further native plantings here.

Arthur Mitchell

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

B. Baldwin
Sumner & Volka for
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Copy
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PHB

Wailuku Maui
Oct. 6, 1944

Memorandum to the Superintendent Eward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of September is respectfully submitted;

Introduction

The 4th division of Marines are making good use of the Old Rest House on the crater rim. A gang of men are remodeling and painting the inside in preparation for converting it into a rest camp for a few of the officers. The building has been of little use to anyone for many years and will possibly now be fit to use as a place to stay overnight for tourists and military personell after the 4th division leaves the island. It was agreed that all improvements were to be left in the building.

Weather conditions in the park

Max. temp.-----70 degrees on the 29th
Min. temp.-----39 degrees on the 6th
Rainfall total-----0.55 inches
Clear days-----19
Partly cloudy days-----8
Cloudy days-----3

Public Service contractors

No service was rendered the public in the park by the Maui Grand Hotel this month.

Cooperating government agencies

The CCC records for the Keanae Camp were hauled up to the Park and are now stored in one of the old CCC buildings here. The USED property officer did not know what to do with them and finally decided to leave them here as the Superintendent of Hawaii National Park is the property custodian for all CCC property and records according to the former CCC men.

The Army building on Red hill is receiving the finishing touches on the interior now and is almost ready for the equipment. Most of the buildings at the base camp are up but not completed on the inside.

Increase or decrease in travel

The large number of military personell visiting the park this month was due to the presence of the 4th division of Marines on the island. They were resting this month and allowed extra liberty as replacements have not yet arrived and their training program cannot start until they do.

Destruction of predatory animals

54 goats were killed in the park this month.

Signs

A new sign was placed in the park this month along the road between the Ranger Station and the Army camp. It reads, "NO GUNS ALLOWED IN THE PARK". Several men cautioned about shooting in the park complained that there was no sign to the contrary.

The Navy command at Pearl Harbor changed an order that used to require all officers to carry fire arms when ever off the road to read, "No firearms will be carried by personnel on hiking parties within limits of Hawaiian National Park including the Haleakala Crater area except with permission of ranger." (Exact wording) This was done at my request to keep the old order from conflicting with the new sign.

Frank A. Hjort

Frank A. Hjort
Ranger in Charge

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

October 6, 1944.

MEMORANDUM for the Superintendent:

Report of the Hawaii Volcano Observatory for September

Unusually heavy steam clouds were observed over Mokuaweoweo during the afternoons of September 11, 12 and 16. Otherwise both Mauna Loa and Kilauea were quiet in September.

Three of the 19 earthquakes recorded at Kilauea were strong enough to be felt locally. They appear to have originated under the northern end of Kilauea. A total of 48 shakes were recorded on the Mauna Loa seismographs. A majority of the Mauna Loa shakes originated along the northeast rift.

A majority of the cracks around Halemaumau opened slightly during September. At the Devil's Throat and along the Chain of Craters Road a few showed a slight closing.

The following table shows some of the data collected during the month:

Week ended	Tilt	Seismic disturbances	Seismicity
Sept 3	Slight NNE	2	0.75
10	Slight ESE	5	4.25
17	Slight W	1	0.25
24	Mod. ESE	10	5.25
Oct. 1	Mod. NNE	3	2.00

Work of R. H. Finch

The keeping of the seismological routine up to date took up most of my time. The tilt pendulum in the new observatory building was tested and the period set back to 40 seconds.

Work of Guy C. Omer:

In addition to assisting in seismological routine he did some clock repairing and overhauled the timing circuit for the Mauna Loa seismograph.

R H Finch

R. H. Finch,
Volcanologist

16-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

AUGUST, 1944

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

September 26, 1944.

MEMORANDUM for the Director:

There follows the monthly report for the month of August, 1944:

Introduction

Loss of Ranger Thompson Kauhi on the 15th by induction into the army reduced the ranger force to one ranger at Kilauea, one at Haleakala and one park warden at Kilauea who has been absent under doctor's care since July 4 and is not expected to return until the middle of September. One ranger vacancy is expected to be filled by transfer of a former seasonal ranger in September and efforts are being made to effect the return to duty of former naturalist Gunnar Fagerlund. He wrote that he believed he could secure his release from the Navy. So far it has been impossible to secure any labor at Haleakala to assist the one ranger there but four temporary laborers were rounded up for road repairs at Kilauea.

This shortage of manpower is particularly embarrassing at this time because of the very heavy recreational use and misuse of the park by civilian and military visitors. Even minimum police and fire protection is out of the question and requests for lectures and guided trips have to be repeatedly turned down.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 73° and 51°, and at the Haleakala Ranger Station these recordings were 79° and 51°. Rainfall at Kilauea totalled 4.74 inches and at the Haleakala Ranger Station the rainfall totalled 1.08 inches.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month. On the 23rd, he attended a I.M.C.A. Board of Director's meeting in Hilo.

Selective Service Board meetings were attended throughout the month, and on the 15th he gave a farewell talk to Selective Service inductees at Olaa. From the 9th to the 19th his entire time was given to preparation of the 1946 Estimates.

Interpretation

450 Boy Scouts were conducted on one-hour nature hikes in groups of

RECEIVED AS FOLLOWS

-2-

25 boys each by Asst. to the Superintendent Baldwin and C.P.S. assignee, Mitchell. The Mauna Loa eruption movies were shown to 42 persons at the Kilauea Military Camp.

Research & Observation

A conspicuous fume column was observed over Mokuawooee from Puu Ulaula on August 12. A similar cloud was observed from the rim of Mokuawooee on August 14. No glow was detected. By the morning of August 15, nothing but the usual steaming was manifest. On August 21st, another conspicuous cloud was observed from the rim of Mokuawooee. On this date the cloud was plainly visible from Park Headquarters. During the fuming spell of August 12-14, two sharp earthquakes were felt at Puu Ulaula. The seismograph indicated that these shakes, like many that have been recorded at the Observatory during the past year, occurred at very shallow foci along the upper northeast rift of Mauna Loa. Fifty-six seismic disturbances were recorded at Mauna Loa and 14 at Kilauea. One crack some distance back from the Halemauau rim opened slightly. All others showed no movement.

Wildlife Protection and Research

A report on wildlife accomplishments during the past year was submitted to the Regional Director. Bird counts were taken at established plots throughout the park.

Fire Protection

A fire drill was called for the Volcano House employees on August 17, but no hotel employees responded. This was taken up with the manager and future cooperation was assured. A drill was held for park employees on August 16. Instruction was given in the use of the following forest fire fighting tools: shovel, brush hook, McLeod tool, fire rake and back pack pump.

The kerosene stove at the 10,000 ft. rest house was repaired after it was found to be a fire hazard due to leaking kerosene.

Forest Protection

A goat drive was held August 5-7. Fifteen footmen and 6 horsemen participated. 216 goats were paid for by the contractor and in addition 33 were destroyed, making a total of 249 goats disposed of. Other control work during the month brought the monthly total to 269. Two pigs were destroyed. Pigs are now scarce and hard to find in the park.

In the Haleakala section a total of 35 goats were destroyed.

Cooperating Government Agencies

In the Haleakala section, the army has completed the building on the Red Hill site. The structure was finally made of concrete, and the generator house in that area was also completed except for installation of equipment. At the base camp signs of activity were taking place during

RECEIVED AS FOLLOWS

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the last of the month, when materials began to arrive, and ground was broken for the planned barracks.

Travel

In the Kilauea section civilian visitors were estimated to total 19,216 and military 11,741 compared with 19,100 and 24,645 for August 1943.

At Haleakala, visitors were estimated to total 3,900 for the month of August, including 3,400 in the armed forces. For the same month last year, civilian visitors were estimated to total 375 and military 1,075.

Personnel

Ranger Thompson Kauhi was inducted into the Army on the 15th of August. A luau was held in the park and Ranger Kauhi was presented with a gift from the staff.

Visitors

Former Governor and Mrs. Walter F. Frear were guests at the Volcano House during the month. Governor Ingram H. Stainback was an overnight guest on the 29th.

Miscellaneous

Prefabricated "Victory homes," designed by the territory as housing for war workers, may be brought to Hawaii in quantity providing basic furnishings and plumbing fixtures are available. The housing situation in Honolulu remains critical.

Several large mainland firms are reported interested in the possibilities of establishing fish canneries in Honolulu after the war, according to Mr. Dan Balch, territorial planning engineer. He said that they planned to utilize fishing grounds of the South Pacific including the mandated islands now in U.S. possession.

A navigation device that Dr. Thomas A. Jagger of the University of Hawaii described at a meeting of the Hawaiian Academy of Science in 1935, is now being developed for the use of fighter pilots. In a paper entitled, Shipboard Plane-table and Azimuth Camera: An Experiment in Navigation, Dr. Jagger presented the basic concept of an automatic location device for use in air and ocean navigation. He exhibited an instrument that had been used for tests during a steamer trip between Oahu and Kauai. Dr. Jagger said this trail run showed that the apparatus had to be simplified to increase speed of observations and to reduce error in calculations.

Mrs. Nora T. (Mother) Rickard, died at the age of 96 at her home in Honokaa on August 25. She arrived in Hawaii from England in 1867 after a trip around Cape Horn during which her first child was born. She

RECEIVED AS FOLLOWS

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is survived by 12 sons and daughters, 33 grandchildren, 35 great-grand children and 11 great-great, grand children. Always an extremely active person and ardent horsewoman she retained a keen interest in affairs almost to the last.

Edward G. Wingate
Edward G. Wingate,
Superintendent

Orig. & 4 - Director
c.c. - Region Four

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

September 4, 1944

MEMORANDUM for the Superintendent:

The monthly report follows on activities of the Ranger Division and of the Asst. to the Superintendent during August, 1944:

Police Protection

A reprimand and warning were given a Volcano House employee about meeting soldiers near empty park houses. The Jaggar's house was found open again and was closed up.

All vacant park houses were inspected and found in order.

Fire Protection

A fire drill was called for ^{the}Volcano House on August 17, but the staff did not turn out. A drill was held for park employees on August 16. Instruction was given in the use of the following forest fire fighting tools: shovel, brush hook, McLeod tool, fire rake and back pack pump. Operation of the fire truck was practiced. An impromptu drill was called on August 31, at 7:30 p.m. The response was good, though the KMC truck did not participate as the KMC telephone operator could not be roused.

The fire truck was checked weekly. Back pack pumps parts were ordered and five new ones were received, one of which needs soldering. The 1946 estimate for supplies and equipment was prepared, and the 1944 inventory of fire equipment was completed.

The kerosene stove at the 10,000 ft. rest house was repaired after it was found to be a fire hazard due to leaking kerosene.

Forest Protection

A goat drive was held August 5-7. Fifteen footmen and 6 horsemen participated. 216 goats were paid for by the contractor and in addition 33 were destroyed, making a total of 249 goats disposed of. Other control work during the month brought the monthly total to 269. Two pigs were destroyed. Pigs are now scarce and hard to find in the park.

The ranch fence below 6-tanks was checked and found to be in poor

condition. Sumner was informed of this by letter on August 14.

A report was prepared for the Director on damage of park values by grazing. A follow-up report on the effect of grazing on koa reproduction was included.

Wildlife Protection and Research

A report on wildlife accomplishments during the past year was submitted to the Regional Director. Mitchell devoted several days to identification of food items in the nene food habits study. Bird counts were taken at established plots throughout the park. Specimens of ohia lehua wood were sent to Dr. C. H. Edmondson to be tested for resistance to shipworm boring at his request.

Telephone, Roads, etc.

Signs were painted and installed on the rim road to warn of holes in the road.

A new tank was installed at the Hilina Pali shelter and a pipe line to the watering trough put in.

Telephone maintenance work included installing of line switches at the Halemaumau spur junction and the Ainahou Ranch junction of the Makaopuhi line. Several telephone sets were repaired by Omer.

Assistance was given the maintenance division in several jobs.

Interpretation and Public Contacts

Four-hundred-fifty boy scouts attending Camp Pohoiki were conducted on one-hour nature hikes in groups of 25 boys each by Baldwin and Mitchell. Three days were given to this work.

The eruption movies were shown to 42 persons at KMC on August 23.

Two scout meetings of Troop 8 were attended and encouraged.

Dr. Barksdale, geologist formerly on the faculty at the University of Washington and now in the Navy, was given an introduction to the park.

Travel

Two 8-hour counts were made on August 29 and August 31. Travel was essentially the same as last month, with military travel low.

Personnel

Ranger Kauhi was lost to the draft. This means that there will

be less maintenance work accomplished on trails, etc; and less patrolling. A luau was held and Ranger Kauhi was presented with a gift from the staff.

The wedding of Ranger Medeiros' daughter in Hilo was attended.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to the Supt.,

c.c. - Baldwin's File
c.c. - Ranger File

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

September 2, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Supt.)

Subject: Report of activities for the month of August, 1944.

A goat drive was performed covering the Hilina, Nene, Kaone, and Halapa areas. During this drive, 216 goats were delivered to Lewi De Leon and 13 were destroyed. Another goat control trip was performed covering the pepeiau and ahiu areas, accompanied by Mr. Vern Gilligan and son. On this trip, a total of 16 goats were destroyed.

Pig control work was performed in the Apua section, formerly known as the old corn field. Two pigs were destroyed during this hunt.

Two travel counts were performed at the Hilo Entrance.

A little time was spent checking on the goats which were taken from the corral by Lewi De Leon, shoeing park horses, hauling firewood from Nene, doing sign painting work, checking the fire truck, and installing signs.

Repair work was done on telephone line #10, and a switch installed in the Halemaumau telephone box. A telephone, box, and switch were installed at the former outpost, located on Ainahou lands.

At the Hilina Pali shelter a water tank was installed and filled with water. The old tank was taken down for repairs. A pipe line from the water tank to the horse corral was installed. Some help was given the maintenance crew in repairing some of the bad holes on the Hilina Pali road.

During the performance of a few patrol tours covering the Pepeiau, Ahiu, Hilina, Nene, Kaone and Kukalaula pali areas, all grass covered regions were found to be very arid.

A. B. Medeiros
A. B. Medeiros,
Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala

Wailuku Maui
August 31, 1944

Recd
9/4/44
JEB
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Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of August, 1944 is respectfully submitted;

Introduction

The 4th division of Marines is back on Maui after their two raids on Saipan and Tinian in the Marianas Islands. A good many tents in their tent city near Haiku have vacant bunks. The division is resting and receiving replacements.

The Territory is getting started on its goat hunting program in the Nuu area. Although everything is in the planning stage, but definite plans are made for a large Army camp near the coast at Nuu to get the men closer to the goats.

General weather conditions in the park

August was quite dry. Lack of rainfall and abuse of the use of water at Kapaloa Cabin by the 39th See Bees caused the two tanks that supply the kitchen to be depleted. There was some water in the outside tank at the last inspection.

Max. Temp.-----74 degrees on the 13th
Min. Temp.-----46 degrees on the 24th
Rainfall total-----1.08 inches
Clear days-----21
Partly cloudy days-----6
Cloudy days-----4

Public service contractors

The Maui Grand Hotel has not offered any service to the public in the park yet.

Cooperating government agencies

The Army has completed the building on the Red Hill site. The structure was finally made of concrete. The generator house in that area was also completed except for installation of equipment.

At the base camp signs of activity were taking place during the last of the month. Materials began to arrive and ground was broken for the planned barracks.

No work has been done on the point west of Kolekole.

The negro construction outfit was replaced by a local gang of civilian workers.

Flora

A few silverswors have been reported to be in bloom in the Sliding Sands area. I have seen no blossoms so far this year.

Increase or decrease in travel

More civilians entered the park this month than any month since July, 1943.

Military firures were off a little but should pick up with the 4th Marine division back on the island.

Police protection

The 39th constrection battalion lieutenant arrested last month was reprimanded and cautioned about the proper use of the park. This seems to me a rather light punishment in view of the acts of this man but since the 39th has been shipped out no further action will be asked by this office.

Exotic Animal control

35 goats were killed inthe crater this month.

Frank A. Hjort
Frank A. Hjort
Ranger in Charge

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

September 5, 1944

MEMORANDUM for the Superintendent:

Report of Hawaiian Volcano Observatory, for August, 1944:

A conspicuous fume column was observed over Mokuaweoweo from Puu Ulaula on August 12. A similar cloud was observed from the rim of Mokuaweoweo on August 14. No glow was detected. By morning of August 15, nothing but the usual steaming was manifest. On August 31, another conspicuous cloud was observed from the rim of Mokuaweoweo. On this date the cloud was plainly visible from Park Headquarters. During the fuming spell of August 12-14, two sharp earthquakes were felt at Puu Ulaula. The seismograph indicated that these shakes, like many that have been recorded at the Observatory during the past year, occurred at very shallow foci along the upper northeast rift of Mauna Loa.

Fifty-six seismic disturbances were recorded at Mauna Loa and 14 at Kilauea.

One crack some distance back from the Halemaumau rim opened slightly. All others showed no movement.

Thirty-seven visitors were shown through the Observatory.

Some of the data obtained during the month is shown in the following table:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Aug. 6	Slight NNE	6	2.75
13	Moderate N	1	1.00
20	Slight WNW	4	1.00
27	Moderate ENE	3	1.25

Work of R. H. Finch:

Most of the time not devoted to seismological routine was devoted to a study of harmonic tremor. The April-June Volcano Letter was completed and sent to the publisher.

Work of Guy C. Omer:

Some time was spent on the rating of the Howard contact clock. In addition to helping with the seismological routine he worked on harmonic tremor.

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT

July, 1944

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.

ARNO B. CAMMERER,
Director.

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August 22, 1944

MEMORANDUM for the Director:

There follows the monthly report for the month of July, 1944:

Introduction

There were no events of special interest occurring in the park during the month.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 51°, and at the Haleakala Ranger Station these recordings were 71 and 41. Rainfall at Kilauea totalled 6.57 inches and at the Haleakala Ranger Station the rainfall totalled 1.23 inches.

Superintendent's Special Activities

He was in Honolulu from July 13-19 attending, on annual leave, a conference of Selective Service Local Board Chairmen on the 14, 15, 16, and remaining over to attend to park business there. He conferred with Governor Steinback on the Kalapana addition; Civil Service officials on proposed return of the former naturalist and on filling several vacancies; and Treasury and other Department's representatives.

He gave special attention to Dr. Fred Lee and family, of the Board of Regents of the University of Hawaii during their two day visit to the park. The remainder of the month he was at Kilauea headquarters. He attended the regular weekly meetings of the Selective Service Board at Olan.

Interpretation

The Mauna Loa eruption movies were shown three times at Y.M.C.A. camp Hale O Aieha to a total of 90 persons. Bird talks were given 4 times to a total of 78 persons. A total of 59 visitors in 20 parties were shown through the Observatory.

Research & Observations

July continued the seismic quiet of the last several months. No

RECEIVED AS FOLLOWS

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earthquake strong enough to be perceptible at Park Headquarters was recorded though some shakes were felt at Kapapala, Kau Hawaii, 17 miles to the southwest. Thirty-two seismic disturbances were recorded at Kilauea and 58 at Mauna Loa. The majority of the Mauna Loa tremors originated at shallow depths along the NE rift.

An article entitled, "Birds of Hawaii National Park" was published in the May-June issue of Audubon Magazine, a publication of the National Audubon Society. Reprints were received and sent to local libraries and friends of the park.

The seashore goat enclosure at Kalua was analyzed after one year had passed since its establishment. It was found that the native plant naupaka (Jacquemontia) had increased rather markedly under protection from goats. This attractive plant was used by the Hawaiians for brewing tea.

Dr. Joseph Rock, world renowned botanist, paid a short visit to the park during the month. He accompanied Mr. P. H. Baldwin and Mr. A. Mitchell, Assignee, and a Mr. Eugene Horner on a morning's walk through Kipuka Puulu. Dr. Rock made many valuable comments concerning the changes in vegetation during the past 40 years. He again asked the superintendent to set aside a small area in the park for the propagation and preservation of rare species of island flora that are in danger of extinction. It is believed this should be done even though the plants are not native to the park area.

Wildlife Research

The outstanding bird life event of the month was the recording of the akiapolaau (Heterorhynchus) from Kipuka Puulu on July 16. In recent years this bird had not been recorded below 5,400 feet on Mauna Loa in the park area, though in 1890 it was said to occur in stunted bushy Koa trees a few miles from the Volcano. This sight record may be an indication that the akiapolaau is increasing and expanding into the parts of its former range in the park, which have been protected from cattle, goats and pigs for 18 years.

Cooperating Government Agencies

In the Haleakala section, the Army work on Red Hill is progressing slowly. Some work has been done on the concrete generator building. The brick work already completed on the Radio building was torn down and forms erected for concrete when it was found that bricks had arrived to finish the job. No additional work has been done at the base camp.

Forest Protection

Ranger Madeira assisted the maintenance division in rebuilding the cattle guards on the Mauna Loa truck trail.

One-hundred five goats and 5 pigs were destroyed by shooting.

RECEIVED AS FOLLOWS

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Ranger Medeiros also spent a large portion of his time in directing the preparation of an access trail and corral for the forthcoming goat drives in the lower forests by the Filipino contractors.

The ranger-in-charge Haleakala section, reports that he made a trip with Mr. Colin G. Lennox, President of the Territorial Board of Agriculture and Forestry, Walter W. Holt, Associate Forester, Maui; Richard Baldwin, Manager of Haleakala Ranch, and a Lt. Com. Budny, U.S.N. from Kapalaoa cabin up through the low saddle in the Crater rim just west of Haleakala Peak to Kumuilahi point and then down to Nuu Bay on the ridge between Pukai and Kahalulu gulches. The purpose of the trip was to estimate the damage done by the goats in that section and to try and find a means of decreasing the number of goats both in the park and in the Territorial lands. Damage by a large number of goats was found to be alarming. Nearly all the mamani has been eaten to the ground along with other native and introduced plants. Over-grazing by these animals has reduced the natural cover to such an extent that erosion is beginning to cause the loss of the koa stands as well as the stands of other trees.

It was decided that control of this area can only be undertaken by hunting frequently and on a large scale. Mr. Lennox has asked for money to build trails into some of the area in order that it may be opened to hunting. It was felt by Mr. Lennox, Mr. Holt, and the Ranger-in-Charge, that the problem is a common one between the Park and the Territory. The idea of putting in a fence along our boundary to keep out the goats was explained to the Forest Service men. They both felt that this would, at great expense, help the park but not the Territory, and suggested that if a much smaller amount be spent in a joint hunting campaign, that more overall results would be obtained. The Forest Service men were very cooperative on all ideas presented.

While on this trip, the Ranger-in-Charge observed a yellow blossomed Ohia Lehua, which was not thought to exist on Maui.

In the Haleakala Section, a total of 39 goats were killed.

Police Protection

Ranger Kauhi reported soldiers shooting at goats in the Hilina Pali area on July 19. The soldiers reported to the office and were talked to by the Asst-to-the superintendent. Their commanding officer was notified and requested to prevent a recurrence of the offense. The superintendent and Asst-to-the-superintendent personally interviewed witnesses at the accidental death of the naval officer reported last month. No formal report was ever furnished by the Navy but it was understood their findings confirmed the park opinion that the death was accidental.

In the Haleakala section, a See Bee Lieutenant, G. C. Wallace, was caught at Kapalaoa Cabin using that shelter without a permit on July 31. He also had the hinge pins removed and was using the locked cupboard room. Ranger Hjort was able to catch him in the act of trying to get the door

RECEIVED AS FOLLOWS

back. He and his men had also pulled up a number of pilo and puukeawe bushes for no apparent reason. An arrest was made and the Lieutenant turned over to his commanding officer for trial. The outcome has not as yet been learned.

Roads and Trails

A temporary bridle trail from Uwekahuna to Bird Park was laid out for the use of horseback riders from the Kilauea Military Camp. Kilauea Military Camp will prepare signs and do what little cleaning and marking will be necessary. A better tank was installed at the Lava tube shelter to provide good drinking water for hikers.

Telephones & Electric Service

Assignee Omer continued putting in three days a week on telephone work. He submitted reports on his survey of lines 14 and 11 with suggestions for immediate and eventual improvement.

In the Haleakala Section, a power line was put in from the Army Base Camp to the Ranger Station. Old telephone poles, insulators, and wire left in this section by the telephone company were used for the job. Since the distance was great for 110 volts to be transmitted, four number 10 solid copper wires were used - two for each leg of the line. This gives good light at the Ranger Station but is not enough for satisfactory results when the iron, toaster, etc; are used. The Ranger-in-Charge reports that the work involved in installing this line alone was considerable, but is more than offset by the enjoyment of having lights and radio whenever desired without having to coax an old generator to run or to change radio batteries. No cost to the park was involved except the rangers time.

Travel

At Kilauea, civilian visitors were estimated to total 16,241 and military visitors 13,911 compared with 17,558 and 25,343 for July, 1943.

At Haleakala, visitors were estimated to total 4,685 for the month of July, including 4,310 in the armed forces. For the same month last year, civilian visitors were estimated to total 550 and military 1,070.

Visitors

Dr. Joseph F. Rock, LL. D. world renowned botanist, linguist, and explorer, spent a few days at the Volcano House. He is an authority on Hawaiian flora. It was his first visit since 1940. He has spent 23 years in China and is one of the world's experts on certain parts of China. He has explored most of western China and a good deal of Tibet. Dr. Rock considers Yunnan China his home. Mr. George Fuller, retired president

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of the Bishop Bank, Honolulu, Dr. and Mrs. Fred Lam, Board of Regents, University of Hawaii, July 23-24, Territorial Senator and Mrs. David Trask and Land Commissioner Lester Marks on the 31st.

In the Haleakala Section, Admiral Chester W. Nimitz again visited the park and this time got to see the Crater. He was met by the ranger-in-charge.

Miscellaneous

The Island of Hawaii has gone over the top in the Vth War Loan drive. The total of bond purchases was \$2,726,000, or \$12,000 more than the \$2,750,000 quota set for this island.

Mr. Stanley Kennedy, President, Hawaiian Airlines, has announced that the Hawaiian Airlines has asked the Civil Aeronautics board permission for the postwar establishment of two regular schedule passenger and freight mail services to Tokyo and Shanghai on one route and to Manila on another. The airlines would use four-motored planes on routes originating with a shuttle run between Los Angeles, San Francisco and Honolulu. The projected northern route run would be from Honolulu to Midway, 1,311 miles from Honolulu, then non-stop to Tokyo, a 2,544 mile flight, then to Shanghai, another 1,104 miles. The second route would be from Honolulu to Wake, 2,299 miles, 1,432 more miles to Saipan, and another 1,650 miles to Manila. The return trip from Manila will be via Palau, Truk, Ponape, all in the Caroline Islands, then to the Marshalls where they would probably use Kwajalein or Eniwetok, then to the Johnson Islands and to Honolulu. Mr. Kennedy said the service would start as soon after the war as the equipment is available if the application is granted. All of this and many other signs all point to heavy post-war travel to Hawaii. However, it is regretted that the Polynesian in the Marshalls, etc., who have had the enlightening experience of being forced to witness civilized warfare will then have to receive further enlightenment on our civilization through the edifying spectacle of our tourist business methods.

Ranger Thompson Kauhi was married in Hilo on July 1, to Miss Irene Apale. Many of the park people attended the wedding and luau which followed at the home of the brides parents. Ranger Kauhi had received his notice to report for pre-induction physical examination on the same day but the Local Board had this changed to a more convenient date. He expects to be inducted shortly.

The Hilo Tribune Herald on July 19, carried an article covering a report by the Chamber of Commerce, Special Transportation committee, stating that it recommended having all bus transportation on the island of Hawaii placed under the jurisdiction of the Territorial Public Utilities Commission and that steps be taken to have Congress amend the Organic Act to permit granting of an exclusive franchise for such transportation on the island. Since such a franchise, if authority for it is obtained, would force the park concessioner who operates between Hilo and the park out of business, except inside the park, along with numerous other small operators

the matter is being closely watched.

It was reported in the press that the War Department had given a citation to the 100th Infantry Battalion for outstanding operations in Italy. This outfit is composed of Americans of Japanese ancestry largely from Hawaii. The battalion has received over 1,000 Purple Hearts, 44 Silver Stars, 31 Bronze Stars, 9 Distinguished Service Crosses, and 3 Legion of Merit Medals.

Military authorities removed all restrictions on motor vehicle lights during the month, ordering the blackout removed if used at night.

Edward G. Wingate,
Superintendent

Orig. & 4 copies to the
Director
c.c. - Regional Director
c.c. - Files

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

August 4, 1944

MEMORANDUM for the Superintendent:

The following report is submitted concerning the activities of the Ranger Division and the Assistant to the Superintendent during July, 1944.

Police Protection

The MacDonald case was terminated by the Provost Court when it was found MacDonald had left the island, destination unknown. A copy of the accident investigation by the Olaa Police was secured for the park files.

Ranger Kauhi reported soldiers shooting at goats in the Hilina Pali area on July 19. The soldiers reported to the office and were talked to by the undersigned. Their commanding officer was notified and requested to prevent a recurrence of the offense.

Action was taken by Capt. Macgonogle to punish two of his men who violated curfew.

In connection with the death of a naval ensign, three Volcano House employees were formally interviewed.

Fire Protection

The Annual Fire Hazards Inspection report was completed and mailed on July 15.

A park fire drill and instruction period was held on July 13. Practice was had in handling the fire truck, fire extinguishers, fire hoze, and in ringing fire alarms. A drill for Volcano House employees was held July 14.

Repair parts for our back pack pumps were received and installed. Other fire fighting equipment was given maintenance attention.

Forest Protection

Ranger Medeiros assisted the maintenance division in rebuilding

the cattle guards on the Mauna Loa truck trail. The job was completed. Medeiros inspected the ranch fence from cattle guard #2 down to the stone wall and found it to be in poor condition and to need extensive repairs.

One-hundred-five goats and 5 pigs were destroyed by shooting. Ranger Medeiros spent a large portion of his time in directing the preparation of an access trail and corral for the forthcoming goat drives in the lower forests by the Filipino contractors. This work was completed.

Forest research

The seashore goat enclosure at Kalue was analyzed after one year had passed since its establishment. It was found that the native plant pauhihiaka (Jacquemontia) had increased rather markedly under protection from goats. This attractive plant was used by the Hawaiians for brewing tea.

Dr. Joseph Rock was accompanied by the writer, Red Mitchell and Eugene Horner on a morning's walk through Bird Park. Dr. Rock made many comments concerning the changes in vegetation during the past 40 years. Mr. Mitchell is preparing a report on this subject.

The writer reviewed the checklist of park plants prepared by Messrs. Fagerlund and Mitchell.

Wildlife Research

The outstanding bird life event of the month was the recording of the akiapolaau (Heterorhynchus) from Bird Park on July 16. In recent years this bird had not been recorded below 5,400 feet on Mauna Loa in the park area, though in 1890 it was said to occur in stunted bushy Koa trees a few miles from the volcano. This sight record may be an indication that the akiapolaau is increasing and expanding into the parts of its former range in the park which have been protected from cattle, goats and pigs for 18 years.

Bird counts were made on established plots throughout the park.

Roads and Trails

A temporary bridle trail from Uwekahuna to Bird Park was laid out for the use of horse back riders from K.M.C. K.M.C. will prepare signs and do what little clearing and marking will be necessary.

Ranger Medeiros recommends replacing wooden timbers with iron rails in the Lava Tube bridge.

A better tank was installed at the Lava tube shelter to provide

good drinking water for hikers.

Several signs were painted and installed.

Travel

Travel counts were made at Hilo Entrance on July 22 and 29. Civilian travel was up several thousand over last month's figure, but military travel was down nearly 50%.

Telephone

Assignee Omer continued putting in three days a week on telephone work. He submitted reports on his survey of lines 14 and 11 with suggestions for immediate and eventual improvements. Considerable light maintenance work was done by Mr. Omer.

Interpretation

The Mauna Loa eruption movies were shown three times at Hale O Aloha to a total of 90 persons. Bird talks were given 4 times to a total of 78 persons.

An article entitled, "Birds of Hawaii National Park" was published in the May-June issue of Audubon Magazine, a publication of the National Audubon Society. Reprints were received and sent to local libraries and friends of the park.

Miscellaneous

Several days were spent by the undersigned in reorganizing the 880 series in the main file, including forestry and forest protection, and in completing reorganization of the ranger division files.

Assistance was given Acting Scoutmaster Akira Yamamoto in reorganizing and revitalizing the local scout troop sponsored by the park. Parents of prospective scouts were called on and two new recruits were obtained plus reawakening the interest of former members. Sunday meetings were attended during the month to give the scoutmaster support and encouragement. When the undersigned was not able to attend, he requested Mr. Mitchell to assist in his place. Instruction furnished between the two of them included mapping, fire by friction, and camping.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to the Supt.,

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

August 2, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Superintendent)

Subject: Report of Activities for the Month of July, 1944.

The two cattle guards on the Mauna Ioa road have been re-arranged and new ones were built in the earlier part of the month. At this time, an inspection was made of the fence line which divides the park and Kapapala boundary leading from the six tanks to the stone wall on the SW side. The cattle guard, down as far as the stone wall was found in very poor shape and this fact was reported to Mr. P. H. Baldwin, Asst. to the Supt.

The old water tank at the lava tube shelter has been removed and replaced with another. A check was made of the bridge at the lava tube entrance, and it is not in very good condition. I suggest that the joists be replaced with steel rails, in place of wood of which there is a few at present.

Pig and goat control work was performed, and two pigs and 7 goats were destroyed. Some time was spent on sign painting. Some work was done on the fire fighting equipment. Three new back pack pumps were received and these were assembled. A fire drill was attended. Two travel counts were performed at the Hilo Entrance, and patrol work was carried out covering all park roads. Time was spent shoeing park horses in preparation for a goat drive to be held on August 6, 1944. This drive is going to cover the following areas: Kaone, Kapukapu, Papalimamoku, and Hilina.

A new goat corral was built by Lui De Leon and his staff, alongside the fence at Nene and Ainahou boundary line.

A. B. Medeiros
A. B. Medeiros,
Ranger

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

August 7, 1944

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for July

July continued the seismic quiet of the last several months. No earthquake strong enough to be perceptible at Park Headquarters was recorded though some shakes were felt at Kapapala, 17 miles to the southwest. Thirty-two seismic disturbances were recorded at Kilauea and 58 at Mauna Loa. The majority of the Mauna Loa tremors originated at shallow depths along the NE rift.

Two cracks near Halemaumau rim showed a slight closing. All other cracks measured showed no movement.

A total of 59 visitors in 20 parties were shown through the Observatory.

Some of the data obtained during the month is shown in the following table:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
July 9	Slight WNW	5	1.50
16	Slight NNE	5	2.00
23	Very slight NE	9	3.25
30	Slight NW	3	0.75

Work of R. H. Finch:

One trip to Kona to work on the seismograph was made. Seismograph routine was kept current. Some time was spent on harmonic tremor studies and on the April-June 1944 Volcano Letter.

Work of Guy C. Omer:

On the days that he was at the Observatory he helped with the seismological routine and changed the Bosch-Omori seismograph regularly

every evening. The other principal time consuming jobs were: checking the Howard clock; Plotting clock rate; working on harmonic tremor; and on seismograph driving clock.

R H Finch

R. H. Finch,
Volcanologist

*Redding?
P.H.B.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
Haleakala section

Weiluku Maui
August 2, 1944.

Memorandum to Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin;

The following narrative report for the month of July, 1944 is respectfully submitted;

Introduction

Colin G. Lennox, president of the Territorial Board of Agriculture and Forestry; Walter W. Holt, Associate Forester, Maui; Richard Baldwin, manager of Haleakala Ranch; and Lt. Com. Budny and I made a trip from Kapalaoa Cabin up through the low saddle in the crater rim just west of Haleakala Peak to Kumuiliahi point and then down to Nuu Bay on the ridge between Pukai and Kahaalulu gulches.

The purpose of the trip was to estimate the damage done by the goats in that section and to try and find a means of decreasing the number of goats both in the park and in the Territorial lands.

Damage by a large number of goats was found to be alarming. Nearly all the manami has been eaten to the ground along with other native and introduced plants. Overgrazing by these animals has reduced the natural cover to such an extent that erosion is beginning to cause the loss of the koa stands as well as the stands of other trees.

Control of this area can only be undertaken by hunting frequently and on a large scale it was decided. Mr. Lennox has asked for moneys to build trails into some of the area in order that it may be opened to hunting. He suggested that the military forces be used until the war is over and then some other system be developed. It was felt by Mr. Lennox, Mr. Holt and I that the problem is a common one between the Park and the Territory. The idea of putting in a fence along our boundary to keep out the goats was explained to the Forest Service men. They both felt that this would at great expence help the park but not the Territory and suggested that if a much smaller amount be spent in a joint hunting campaign that more overall results would be obtained. I beleive this plan is better than the fence idea at present.

The Forest Service men were very cooperative on all ideas presented. Mr. Lennox assured me that if the public were to be allowed to hunt in the area that it would be under licensed Territorial guides acceptable to the Park Service and that the Park Service would be given full consideration with regard to boundaries--hunting laws etc.

Although it is out of the question for the Park to hire anyone on Maui now for this project I beleive it should be one of our first considerations after the war. One man could, if his entire time were put to it, accomplish a lot towards eliminating these pests with the aid of the Territorial men.

No rare plant life was seen on the trip with the exception of one yellow blossomed Ohia Lehua which is not supposed to exist on Maui. All birds seen were of the more common varieties.

General weather conditions in the park

July was a dry month but the vegetation here is not suffering from lack of water yet.

Max. temp.-----71 degrees on the 29th

Min. temp.-----41 degrees on the 4th

Rainfall total---1.23 inches

Clear days-----21

Partly cloudy days 8

Cloudy days-----2

Equipment and supplies

The old CCC mules from Keanae that have changed hands so many times are under Park custody again. All the equipment that goes with them has been transferred to the park and the transfer of the animals has been promised as soon as the mess concerning their present ownership is settled. An effort has been made to secure animals that may be used here in reconstruction work after the war as suggested in a letter from your office some time back. Nineteen mules, counting the above mentioned nine head, are now actually within this section. This should give us a good supply of stock for the future.

Some of the animals are not in very good health due to previous abuse. These animals are being rested and some are under treatment by the Army Veterinarians who feel it their duty to treat them since the Army was responsible for their being loaned to people not responsible for their proper care.

New Construction

A Power line was put in from the Army Base Camp to the Ranger Station this month. Old telephone poles, insulators, and wire left here by the Telephone Company were used to do this job. No new materials were needed. Since the distance was great for 110 volts to be transmitted, four number 10 solid copper wires were used--two for each leg of the line. This gives good light at the Ranger Station but is not enough for satisfactory results when the iron, toaster, etc. are used. It will take two more wires for each leg to bring the line up to par according to figures.

The work involved in installing this line alone was considerable but is more than offset by the enjoyment of having lights and radio when ever desired without having to coax an old generator to run or to charge radio batteries. Parts to fix the generator were becoming very difficult to get too.

The Army gave me permission to use their power ⁱⁿ this manner some time back. It seems that the cost of transmitting power to the summit and to the base camp is so great the the small extra amount of current used by us is not noticeable.

Public service contractors

The Maui Grand Hotel has done nothing yet towards serving the park visitors.

Cooperating government agencies

The Army work on Red Hill is progressing slowly. Some work has been done on the concrete generator building. The brick work already completed on the Radio building was torn down and forms erected for concrete when it was found that bricks had arrived to finish the job. What the outcome of the matter is now I do not know. No work has been done on the point beyond Kolekole. No work has been done at the Base Camp.

Use of the park facilities by the public

Travel figures for the month were up over last month. Several See Bee outfits are contemplating moving further west and have been trying to let most of their men see the crater before going. The 98th Army division is also steadily being built up to strength on this island and quite a few are coming up to the park.

See Bee training programs accounted for most of the overnight visitors.

Visitors

Admiral Chester Nimitz again visited the park and this time got to see the crater. Captain Murphey of Puunene Naval Air Station notified me of the Admiral's arrival on the island and his proposed trip into the park so I was able to be at the summit to meet the party.

Police protection

A See Bee Lieutenant, one G. C. Wallace, of the 39th construction battalion was caught at Kapalaoa Cabin using that shelter without a permit. He also had the hinge pins removed and was using the locked cupboard room. I was able to catch him in the act of trying to get the door back after he saw me coming by running my mule after I saw some of the men make a dash for the inside of the cabin as they saw my approach. He and his men had also pulled up a number of pilo and puukeawe bushes for no apparent reason.

An arrest was made and the Lieutenant turned over to his Lt. Com. for trial. The outcome of the trial has not been learned yet as all this happened on the last of the month.

Exotic animal control

39 goats were killed in the park this month.

Dwight Baldwin, owner of Kaupo Ranch, has started issuing shot guns and buck shot shells to his ranch hands each Saturday for the hunting of goats on his land around Kaupo and Nuu. Mr. Baldwin stated that about 100 goats were killed this month.

Signs

Two "STAY ON TRAIL" signs were put up between Holua and the Bottomless Pit the first of the month as a trial to eliminate an unsightly short cut. No one had used the short cut up to this writing.

Frank A. Hjort
Frank A. Hjort, Ranger in Charge

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HEWAI NATIONAL PARK

FILE NO.

MONTHLY REPORT

June, 1944

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.

ARNO B. CAMMERER,
Director.

U. S. GOVERNMENT PRINTING OFFICE

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

July 27, 1944

MEMORANDUM for the Director:

There follows the report of activities for the month of June, 1944:

Introduction

Hawaii again feels that it is a part of the flock! Regional Director Owen Tomlinson arrived on the 22nd for a brief visit, his first to this park and the first by any mainland Service official since Associate Director Dezaray was here in 1939. Major Tomlinson was met in Hilo by the superintendent who took him to the park and accompanied him on all his inspections and to the Haleakala section on the 27th. Major Tomlinson left for Honolulu on the 29th from Maui.

Though his time was limited, Major Tomlinson was able to visit most of the readily accessible parts of the park including an inspection of the area in the Kau Desert used by the army for training and the army installation at Haleakala. He was also taken to Kalapana to get a view of the eastern end of the Kalapana addition to the park. He was able to meet all the employees here but one who was absent on sick leave. The staff was more than pleased with his visit and hopes he will be able to return for a longer stay in the not too distant future.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 72° and 48°, and at the Haleakala Ranger Station these recordings were 71° and 41°. Rainfall at Kilauea totalled 4.40 inches and at the Haleakala Ranger Station the rainfall totalled 3.62 inches.

Superintendent's Special Activities

The Superintendent was at headquarters throughout the month with the exception of a few days, June 27th to June 30, which were spent on the island of Maui, Haleakala Section, with Regional Director Owen A. Tomlinson. He attended a Boy Scout Executive Board meeting at the Hilo Hotel on June 20, and a Y.M.C.A. Banquet on the 6th, celebrating the 100th Anniversary of the founding of that organization.

Selective Service Board meetings were attended throughout the month at Local Board No. 1, Olan Hawaii.

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Interpretation

Two hikes were led, involving a total of 51 girl scouts. One bird talk was made to 37 girl scouts and two showings of the 1942 Mauna Loa eruption movies were made to 44 girl scouts.

Research and Observation

The seismic lull that was especially noticeable in April and May continued through June. No perceptible earthquakes were recorded at the Observatory. Twenty three seismic disturbances were recorded at Kilauea and 44 at Mauna Loa. A majority of the earthquakes strong enough to show phases originated on the northeast slope of Mauna Loa. A majority of the cracks around Kalamauan opened slightly while those along the Chain of Craters Road and at Devil's Throat remained stationary.

During the last week in June, 43 people visited the Observatory. Word was received that an article by P. H. Baldwin, entitled, "The Birds of Hawaii National Park", was published in the May-June issue of Audubon Magazine.

A report for publication entitled, "The Hawaiian Geese: Distribution, Population Reduction, and Range Shrinkage" was sent to the Regional Director on June 30. Several bird counts were taken throughout the month.

Cooperating Government Agencies.

In the Haleakala section the army renewed work on a small scale with a Negro unit. About seven negro troops moved into the base camp on the 28th.

The Territorial Highway Engineer has submitted a report to Washington estimating that \$5,000,000. is immediately needed to rehabilitate roads in the Territory and that an additional \$3,000,000. will be needed later. Of this total, \$1,147,000 is for 125 miles of road on the island of Hawaii.

Forest Protection

A patrol was made by Asst. to the Supt. Baldwin and Ranger Medeiros along the park boundary. The boundary fence was found in variously good or poor condition. In many places throughout, rock fills under the wire needed attention. No signs of bombing outside the army bombing range below Hilina Pali were seen. This range has recently been used by the Navy. The army never has used it.

Goat damage was very severe on Kukulauila Pali and severe on Pui Kapukapu. Hundreds of goats were present in both these sections. To start removal of these goats, a new goat contract was let to last for 3 months. In goat control shooting, various members of the staff cooperated to destroy 113 goats. Two pigs were destroyed.

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In the Haleakala section, a total of 17 goats and one wild dog were killed.

Fire Protection

A fire drill for the "Volcano House" employees was held on June 15, and a fire drill for the park staff was held on June 6. The forest at Kipuka Pepeeiau was investigated to see if any basis for the smoke report received in May could be found. None was.

Police Protection

Two accidents claimed the time of the ranger staff. The first involved an army car and a civilian car, the former bumping into the latter on the parking area at Makopuhi Crater. Park officials were not notified by the persons involved but learned about it later when an army officer making an investigation applied for information on our traffic code. The second involved two civilian cars, a sedan and a bus. Investigations were made by Ranger Baldwin and Ranger Medeiros, and a member of the Local Police. The police decided to lodge a charge against the driver of the sedan for violation of the County ordinance on Headless and Careless Driving. In this accident the park again was not notified and we found out about it too late to see the vehicles in their original positions. The third accident involved a naval lieutenant who was killed when he fell into Kilauea Crater from near the rim road lookout at Aloha Fall. He was said to have been accompanied by a girl from the Volcano House staff. Again the park was not notified and the body had been removed before we learned of it. Though the Navy made an investigation, we are conducting our own separately.

Firing of automatic weapons heard near Puu Ohale on Sunday morning, June 26, was reported to Army Headquarters in Hilo. Several days later the Officer-In-Charge reported that they believed it must have been officers on their own. He asked that they be notified sooner in case of a recurrence in order that they could send N.P.'s immediately to catch them with their weapons.

On June 24, a small party of army officers and men forced the Haua Loa gate on a trip to the 10,000 ft. rest house without permit. The Superintendent handled the matter and the damaged gate was repaired.

Telephones, signs, trails

The telephone survey was continued by Assignee Omer, who reported on park lines 9 and 11. Trouble with the Kilauea Military Camp line was investigated and found to lie within the Kilauea Military Camp switchboard installation.

Sign painting continued on a small scale.

The relocation of a short section of the bridle path through the old Volcano House grounds was scouted by Ranger Medeiros and Asst. to the Superintendent, Baldwin. Work on it will commence as soon as

RECEIVED AS FOLLOWS

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possible. This relocation is needed to take the trail out of the hotel corral where passing riders leave the gate open, allowing the stock to escape.

Travel

At Kilauea, civilian visitors were estimated to total 13,310 and military visitors 23,420 compared with 18,382 and 22,050 for June 1943.

At Haleakala, visitors were estimated to total 3,840 for the month of June, including 3,515 in the armed forces. For the same month last year, civilian visitors were estimated to total 325 and military 1,015.

Visitors

Major Owen A. Tomlinson, Regional Director, Fourth Region, paid our park a short visit during the month, and was registered at the Volcano House.

Mr. Randolph Sevier, Vice President of Castle & Cook, Ltd., was a guest at the Volcano House during the month.

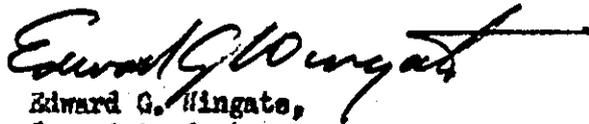
Miscellaneous

The Island of Hawaii's quota for the 5th War Loan drive is \$2,750,000.

President Roosevelt nominated Gerald Robert Corbett, of Hawaii, to be secretary of the territory of Hawaii. He is a native of Wisconsin and will succeed Ernest Kai, resigned.

Dr. Robert H. Marks has arrived in Honolulu from the mainland to assume his duties as director of the tuberculosis bureau of the territorial board of health. For the past 6 months he has been engaged in large scale case finding for the U.S.P.H.S., supervising the x-raying of 50,000 persons.

O.P.A. Director, Melvin C. Robbins, has announced that rationing of tires in the territory has now been placed on an "occupational" instead of a "mileage" basis. This new policy will mean that any motorist who has a supplemental ration for "preferred mileage" purposes as described in the gasoline rationing order, will be eligible for Grade 1 tires, regardless of the number of miles driven each month.


Edward G. Wingate,
Superintendent

Orig. & 4/copies-Director
c.c. - Regional Director
c.c. - Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
July 6, 1944

MEMORANDUM for the Superintendent:

There follows the monthly report for June 1944 on the activities of the Ranger Division and of the Assistant to the Superintendent:

Police Protection

Two accidents claimed the time of the ranger staff. The first involved an army car and a civilian car, the former bumping into the latter on the parking area at Makaopuhi Crater. Park officials were not notified by the persons involved but learned about it later when an army officer making an investigation applied for information on our traffic code. The information requested was furnished. The second involved two civilian cars, a sedan and a bus. Investigations were made by Baldwin and Medeiros and also Sgt. Arrujo of the Olaa Police. The police decided to lodge a charge against the driver of the sedan for violation of the County ordinance on Heedless and Careless Driving. In this accident the park was not notified and we found out about it too late to see the vehicles in their original positions. The third accident involved a naval lieutenant who fell into Kilauea Crater from near the rim road lookout. He was said to have been accompanied by a girl from the Volcano House staff. Again the park was not notified and the body had been removed before we learned of it.

Proper police protection work cannot be done unless the Secretary's regulation #2.19, "Reports of accidents", be observed by the persons involved. Something should be done, if possible, to bring about general compliance with this regulation.

Firing of automatic weapons heard near Puu Ohale on Sunday morning, June 26, was reported to Capt. Allen at 8:30 a.m. June 27. Several days later he reported they believed it must have been some officers on their own. He asked that they be notified sooner in case of a recurrence in order that they could send M.P.'s immediately to catch them with their weapons.

On June 24, a small party of army officers and men forced the Mauna Loa gate on a trip to the 10,000 ft. rest house without permit. The Superintendent handled the matter. The next day a crew was sent up to the park to patch up the damaged gate.

Several highway patrols were made during the month.

*I reported to Senan
Sgt. Arrujo
Suggest Expenses
be notified
PMB*

Fire Protection

A fire drill for Volcano House employees was held on June 15. A fire drill for the park staff was held on June 6, and a surprise drill was called at 4:40 p.m. on June 30. The telephone alarm system again proved inadequate to raise all available men in the park, with the result that our fire truck was not taken to the "fire", though the K.M.C. truck arrived in a very few minutes.

The forest at Kipuka Pepeiau was investigated to see if any basis for the smoke report received in May could be found. None was.

Considerable time was spent by Medeiros and Baldwin on getting data for the Superintendent's Annual Statistical Report of Building and Forest Protection Equipment.

The Quarterly Fire Inspection report was submitted by Ranger Kanki on June 10.

Forest Protection

A patrol was made by Baldwin and Medeiros along the park boundary from the Halfway House to Elemakule, to Kipuka Pepeiau via Kukalauula Pali, along the shore from Kuee Ruins to Kalua, and via Kaone to Halape. The boundary fence was found in variously good or poor condition. The worst section is between Elemakule and a point about 3 miles to the west. If the fence is to be moved because of the bombing range, some of this section is too rusted to be of further use. In many places throughout rock fills under the wire need attention.

No signs of bombing outside the bombing range were seen.

The water tank at Pepeiau needs repairs and screening to eliminate mosquitos.

Goat damage was very severe on Kukalauula Pali and severe on Puu Kapukapu. Hundreds of goats were present in both these sections. To start immediate removal of these goats a new goat removal contract was let to Luis de Leon in June to last for 3 months.

In goat control shooting, various members of the staff cooperated to destroy 113 goats. Two pigs were destroyed.

Telephone, signs, trails

The telephone survey was continued by Assignee Omer, who reported on park lines 9 and 11. Trouble with the K.M.C. line was investigated and found to lie within the K.M.C. switchboard installation. Line maintenance work was done by Medeiros and Kauhi.

Sign painting continued on a small scale.

The relocation of the bridle path through the old Volcano House grounds was scouted by Medeiros and checked by Baldwin. Work on it will

commence as soon as the cattle guard job is finished.

Interpretive Work

Two hikes were led, involving 51 girl scouts.

One bird talk was made to 37 girl scouts and two showings of the 1942 Mauna Loa eruption movies were made to 54 girl scouts.

Word was received that an article entitled, "The Birds of Hawaii National Park" was published in the May-June issue of Audubon Magazine.

Travel

Travel counts were made on June 22 and 29. Travel is still increasing slightly in the Kilauea section.

Research

A report for publication entitled, "The Hawaiian Goose: Distribution, Population Reduction, and Range Shrinkage" was sent to the Regional Director on June 30.

Several bird counts were taken, and notes on marine life were taken during the patrol trip.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to the Supt.,

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

July 3, 1944

MEMORANDUM for the Superintendent:
(Through the Asst. to the Supt.)

Subject: A report of activities for the Month of June, 1944.

A patrol and inspection tour was made covering the area from the halfway house, 68 cracks, Kuee ruins, Pepeiau, Elemakule, Kalue, Kaone, Halape, and the Hilina sections. On this trip I was accompanied by asst. to the supt., P. H. Baldwin. Along the S.W. fence line, some sections of the fence were noticed to be broken down. This should be repaired in order to avoid goats entering the Park from the Kau side. During this tour, a total of 22 goats were destroyed.

Time was spent in repairing telephone lines, taking inventory of fire fighting equipment, and surveying of equipment. A patrol was made covering some of the park areas.

A trip was made to Kau to secure statements from persons who were involved in an accident which occurred within the park.

Two travel counts were performed at the Hilo Entrance.

An inspection tour was performed, covering the army target training range. On this tour I was accompanied by Superintendent Wingate, Regional Director O. A. Tomlinson, and the Asst. to the Supt., P. H. Baldwin. Sign painting work was done and I assisted Ranger Kauhi in transporting a horse from the horse corral to Ainahou, to be used on the trip to the beach. On a few of my patrols, I noticed that the water tank at the lava tube shelter is in very poor condition. I suggest that this tank be removed and replaced with the tank at the Nene shelter, which in turn could be replaced with the one at fire cache #1 on the Mauna Loa road. Fire cache #1 could be replaced with one of the tanks that was removed from one of the evacuation centers.

A check was made of the areas back of the Volcano House water

shed to try and locate a suitable place for a bridle path, but it was impossible to find a place for a trail in this particular location due to a pali. I recommend that the site along the old hotel be used.

A. B. Medeiros
A. B. Medeiros,
Ranger

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

Recd
7/4/44
PMB

Wailuku Maui
July 1, 1944

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of June 1944 is respectfully submitted;

Introduction

Major Tomlinson, Regional Director, Region Four, visited Haleakala Section briefly on the 28th of the month. This is the Director's first visit to Haleakala. Superintendent Edward G. Wingate accompanied the Director on his visit to Maui.

Weather conditions in the park

Max. temp.-----71 degrees on the 29th
Min. temp.-----41 degrees on the 2nd, 14th, 15th, and 30th
Rainfall total-----3.62 inches
Clear days-----4
Partly Cloudy days---13
Cloudy days-----13

Improvement of nearby highways

The territory has painted out all the camouflage with white on the railings, bridges, culverts, etc. on the road from Kula to the park.

Public Service contractors

No service was made available to the public by the Maui Grand Hotel this month. One owner of the Hotel was taken on a trip through the crater to see the cabins and other facilities there.

Cooperating government agencies

The Army started work at the summit on a small scale on the 27th with a negro work unit. About seven negro troops moved into the base camp on the 28th.

Donations

Before the U.S.E.D. left they gave us a heavy welded iron heating stove for the observatory at the summit. They have no use for it at present and said we could use it until they called for it. The stove has proved to be much more satisfactory than the Franklin fire place that was previously there.

Travel

Military travel was less this month than last due to the shifting of some of the troops that were on this island.

Civilian figures showed a slight gain over last month, which was perhaps due to the improvement in the tire situation on Maui.

Exotic animal control

Seventeen goats and one wild dog were killed in the park this month.

Frank A. Hjort

Frank A. Hjort
Ranger in Charge

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

July 6, 1944

MEMORANDUM for the Superintendent

Subject: Report of the Hawaiian Volcano Observatory for June:

The seismic lull that was especially noticeable in April and May continued through June. No perceptible earthquakes were recorded at the Observatory. Twenty three seismic disturbances were recorded at Kilauea and 44 at Mauna Loa. A majority of the earthquakes strong enough to show phases originated on the northeast slope of Mauna Loa.

There was no accumulated tilt for the month. Short period fluctuations of tilt were also very slight.

A majority of the cracks around Halemauau opened slightly while those along the Chain of Craters Road and at Devil's Throat remained stationary.

During the last week in June, 43 people visited the Observatory.

The following table shows some of the data obtained during the month:

Week ended	Tilt	Seismic disturbances	Seismicity
June 4	Very slight NW	10	4.0
11	Slight SSW	7	2.0
18	Very slight NW	7	2.0
25	" " ENE	6	2.0
July 2	" " NNE	7	3.25

Work of R. H. Finch:

Seismographic routine took up most of the time. A trip was made to the Hilo seismograph. A trial run of the Eller seismograph was made. Some time was spent on harmonic tremor studies.

Work of G. C. Omer:

Some of the time he spent at the observatory was taken up with

seismograph routine. A time signal was obtained at least once a week. The driving clock for the vertical was repaired. Whenever possible he worked on harmonic tremor.

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1923)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

May, 1944

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

June 19, 1944

MEMORANDUM for the Director:

There follows the report of activities for the month of May, 1944.

Introduction

All blackout restrictions, except for vehicles, were removed by order of the Military Governor, on May 4. After about two and one half years of living under blackout conditions it seemed strange, but very pleasing, to see again the lights on in homes and on the streets during the hours of darkness.

In connection with decisions recently handed down in Federal Courts in Honolulu concerning the status of martial law in Hawaii, argument by defense counsel in an Army Provost Court case on Maui, is of interest. The defendant, a navy enlisted man, was on trial in Provost Court for careless driving. His counsel, Lt. (J.G.) George Lewis, questioned both the legality of the court in the light of the Federal Court decisions and the right of the army provost court to try navy personnel. We have not learned of the provost court's decision.

Ranger Hjort reports from Kalaakala that, "the sudden order to the U.S.M.D. unit on Maui to cease all activities immediately and lay off all men except the real estate heads by the first of June, climaxed the hectic scramble by the Army to build their Radio Building at the summit. No more work was done there after the 20th of the month. The Army is going to complete the construction themselves. Rumors are out that the outfit to do the rest of the work is still on the Mainland."

General Weather Conditions.

Maximum and minimum temperatures at Kilauea headquarters were 71° and 46°. Figures for the Kalaakala section are not available at the present time. Rainfall at Kilauea totalled 10.09 inches.

Superintendent's Special Activities

The Superintendent was at headquarters throughout the month. On

RECEIVED AS FOLLOWS

-2-

May 8, 9, and 10, he made a trip around the island of Hawaii, attending a Young People's conference in Kohala, and meetings at the Huncua and Kona High Schools, and on May 14, he went on a tour of inspection of the Footprint and Mauna Iki areas. On the 15th, he attended a meeting of the Hawaii County War Finance Committee in the Chamber of Commerce rooms, Hilo Hawaii, and on the 16, he attended a meeting of the Centennial Committee, Y.N.C.A. in Hilo. On that same day he conferred with Mr. Arnold B. Hills of the National Labor Relations Board, at his request, in Hilo. On May 23, he attended a boy scout Executive Board luncheon and meeting in Hilo and on the 26, he attended a boy scout Court of Honor, in Hilo. On the 31st, he made a close inspection of the Kau Desert Army Impact and Training area, following combined maneuvers on the 30th.

Selective Service Board meetings were attended throughout the month at Local Board No. 1, Olan, Hawaii.

Interpretation

1942 eruption movies were shown to 600 students at one of the district schools, (3 showings), and to 40 servicemen at the Hilo Center U.S.O., Hilo, Hawaii. Four hikes were conducted involving a total of 68 persons and two conducted park tours were made for a total of 17 persons.

Research and Observation

A conspicuous steam cloud over the lower part of the 1942 lava flow from Mauna Loa, seen during the month, shows that the lava was still hot two years after it was erupted.

May continued the seismic quiet of the last several months. The Mauna Loa seismograph registered 48 disturbances while the number recorded at Kilauea was 28. Only two shakes were strong enough to be felt locally and they were of Mauna Loa origin. There was but surprisingly little movement in the cracks near Halamaunau and along the Chain of Craters Road. A preliminary report on harmonic tremor was prepared and sent to the Volcano Letter for publication.

Several bird counts were taken during the month.

An article for publication entitled, "The Hawaiian Goose Distribution, Population Reduction, and Range Shrinkage", was brought to near completion by Mr. Baldwin, Asst. to the Superintendent.

Work was begun on the food habit studies of the "Nene", (Hawaiian Goose). At present this work consists of the analysis of the previously collected droppings of nene.

The park herbarium and plant card catalogues have been brought up to date in agreement with the "Survey of the Flora of Hawaii National

RECEIVED AS FOLLOWS

-3-

Park." The indexing has not yet been done.

Cooperating Government Agencies

The U. S. Engineers are closing down on the outside islands and, upon a request to the real estate officer of the U.S.E.D. on Maui to have the old CCC bunk houses at Haleakala turned over to the park before they closed their books, that office ruled that since the houses were built as a project they are park property.

The superintendent had a lengthy conference with the Commissioner of Public Lands, Territory of Hawaii, on the 30th relative to various land matters.

Forest Protection

Fence inspections were made at various points in the park. A patrol was made to the Koa Oasis, following maneuvers by the army. It was discovered that one Koa tree had been completely destroyed by a direct bomb or shell hit, and vegetation in the Kipuka was burned by fire. Bombing targets had been set out adjacent to the oasis.

For the month, a total of two pigs and 22 goats were destroyed. The laborers have been helping with goat control in their spare time, increasing the kill this month. In the Haleakala section, a total of 31 goats were killed.

Police Protection

Several highway patrols were made on all paved roads in the park. Three reprimands were given for minor infractions of traffic laws.

An accident report was submitted by Dr. Gear, assignee to this park, at the superintendent's request, relative to recent damage to car #800. It appeared that the damage was accumulative and due to roads in a bad state of repair.

An accident occurred at 29-miles, just outside the park, on May 17. As a result of being struck by a truck, a 14 year old girl was unavoidably killed. Park personnel assisted at the accident.

Fire Protection

A fire drill was held on May 9, for employees of the Kilaua Volcano House.

Smoke, "near Kipuka Pepeiau", was reported by an outsider. An investigation early in June revealed no burned spots near the kipuka.

Telephons

Excellent progress was made on telephone work this month as a

RECEIVED AS FOLLOWS

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result of doctor's orders to remove Dr. Oser from heavy work. Dr. Oser was assigned the problem of making an inspection and check up of the entire park phone system. He completed a report accompanied by diagrams of lines #8 and #10. Many suggestions were made, some for immediate action and some for future consideration. The rangers have carried out all suggestions requiring immediate attention.

Roads and Trails

A number of newly painted signs were installed along the Chain of Craters road and at the steaming flats. Sign painting continued as opportunity permitted.

Travel

At Kilauea, civilian visitors were estimated to total 11,463 and military visitors 18,833 compared with 16,150 and 12,305 for May, 1943.

At Haleakala, visitors were estimated to total 4,290 for the month of May, including 3,990 in the armed forces. For the same month last year, civilian visitors were estimated to total 350 and military 1,310.

Concessions

A troublesome matter that arose in April over bus operations in the park by others than the authorized operator, K. Hatayama, was finally reasonably settled early in the month at a lengthy conference in Hilo with the Territorial Director, O.D.T.; his assistant, Mr. Keir, Director Island of Hawaii O.D.T.; his assistant; K. Hatayama and his attorney; and the superintendent. The Territorial Director sustained the arguments of the superintendent and K. Hatayama, and directed rescinded certain arbitrary and injurious orders previously issued by Mr. Keir's assistant.

Visitors

Mr. and Mrs. Ted Guard, Manager, Theo. H. Davies & Co., Honolulu, Lester Marks, Territorial Land Commissioner, Mr. J. E. Midkiff, Manager Hailua Plantation, Honolulu, Judge Frank Metzger, Honolulu, Mr. and Mrs. D. A. Devine, Postmaster, Hilo Hawaii, and Mr. Ernest Kai, Secretary of the Territory of Hawaii, were guests at the Volcano House during the month.

Also at the Volcano House were Lester M. Hoo former park service employee at Yosemite National Park, and C. Robert Binger, a forester. They paid a very enjoyable visit to the park while on temporary pass from their naval duties.

Miscellaneous

Acquisition of 20% interest in Hawaiian Airlines Ltd., for a

RECEIVED AS FOLLOWS

-5-

consideration of more than \$300,000 was announced on May 1st, by Trans-Continental and Western Air Inc., and the Hawaiian Company.

Care of handicapped service men returning to the island of Hawaii is under study by officers of the Lions Club, Hilo, Hawaii.

The Hilo Junior Chamber of Commerce and the Hawaii County Medical Society are preparing plans for a community tuberculin testing project. This action comes after an alarming report from the health officer, Dr. Leo Bernstein, that the Hawaii Island tuberculosis rate is 50 per cent higher than the mainland average and the Hilo rate is double the mainland average.

Louis Heillette, Territorial Y.M.C.A. Executive, and Lorne Bell, Associate General Secretary of the Honolulu Y.M.C.A. made a trip around our island with Cecil M. Bernard, General Secretary of the Hawaii County Y.M.C.A. and Edward G. Wingate, president. The group met with Y.M.C.A. district committees and other officials, and participated in a Young People's Conference and meetings at high schools.

Edward G. Wingate,
Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII
June 10, 1944

MEMORANDUM for the Superintendent

There follows the report on activities of the Ranger Division and of the Asst. to the Superintendent for May 1944.

Police Protection

Several highway patrols were made on all paved roads in the park. Three reprimands were given for minor infractions of traffic laws.

A conference was had with Colonel Muller at Hilo to obtain information on use being made of the army bombing range below Hilina Pali. It was learned that the range is in use by the navy for practice in precision bombing and that they use a white mark near the shore for the target. If our men ever had to cross the area bombing practice could be suspended by previous arrangement.

Evacuation supplies and water tanks were brought in from the lower station.

Names written by rock patterns in Keanakakoi crater were destroyed.

An accident report was submitted by Dr. Omer at the Superintendent's request relative to recent damage to car 800. It appeared no person was to blame.

An accident was attended at 29 miles on May 17. As a result of being struck by a truck, a 14 year old girl was killed at Peter Lee corner.

Fire Protection

Fire fighting equipment in the fire shed was checked. A drill for Volcano House employees was held May 9.

Smoke "near Kipuka Pepeiau" was belatedly reported by an outsider. An investigation early in June revealed no burned spots near the kipuka.

Forest Protection

Two pigs and 42 goats were destroyed. The laborers have been helping with goat control in their spare time, increasing the kill this month. A new contract for goat removal is being prepared. It was learned from our experience with the contractor whose contract recently expired that it will be necessary to include a statement in the contract to the effect that fence and corall construction and a minimum of one drive a month will be expected of the contractor.

Fence inspections were made at the Koa plots, Bird Park, and Kipuka Ki. Some maintenance work on the Bird Park fence is needed.

A patrol was made to the Koa Oasis following combined maneuvers by the army. It was discovered that one Koa tree had been completely destroyed by a direct bomb or shell hit. Bombing targets had been set out adjacent to the oasis. Photographs were taken and a separate report was submitted to the Superintendent.

Telephone

Excellent progress was made on telephone work this month as a result of doctor's orders to remove Dr. Omer from heavy work. Dr. Omer was assigned the problem of making an inspection and check up of the entire park phone system. In May he completed a report accompanied by diagrams of lines #8 and 10. Many suggestions were made, some for immediate action and some for future consideration. The rangers have carried out all suggestions requiring immediate attention.

Maintenance work by rangers included installation of several new poles and splicing wires on line 10, repair of substation boxes, and clearing line #11 of trouble.

Roads and Trails

A number of newly painted signs were installed along the Chain of Craters road and at the steaming flats. Sign painting continued as opportunity permitted.

Travel

Travel counts were made at Hilo Entrance May 22 and 23. Civilian travel was down slightly this month but military travel heavier.

Interpretation

1942 eruption movies were shown to 600 students at Pahala High

School May 11th, (3) showings), and to 40 service men at the Hilo Center USO May 14. Four hikes were conducted involving a total of 68 persons. Two conducted park tours were made for a total of 17 persons.

Several beautiful heads of Painiu berries were contributed to the K.M.C. flower display for the Hilo flower show.

Research

Several bird counts were taken. An article for publication entitled, "The Hawaiian Goose: Distribution, Population Reduction, and Range Shrinkage" was brought to near completion. It was possible to assign A. L. Mitchell to nene food habits analysis work for the first time this month; however, only a day and a half of work was accomplished. It is expected that this project can be pushed through without much more delay.

Visitors

Lester M. Moe, former park service employee at Yosemite National Park, and C. Robert Binger, a forester, paid an enjoyable visit to the park while on temporary pass from their naval duties.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to the Supt.,

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

May 31, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Supt.,)

Subject: A report of activities for the Month of May, 1944.

Patrol work was performed covering the chain of craters, the Halemaumau, bird park and Mamalahoa highway from the Hilo entrance to the Kau entrance. A few repairs have again been made on the telephone line along the crater floor, and the broken down gate on the fence along the giant kea section was repaired. A broken wire and some broken insulators on telephone line #10 along the Kau entrance have been repaired.

A few signs were painted and installed along the Chain of Craters road. Time was spent building some telephone boxes, and a door was built and installed on the telephone box at fire cache #1. A broken section on telephone line #10 in the Mauna Lea section was repaired. The switch on pole #958 on telephone line #10 was removed along with pole #994 near K.M.C. and some dangling wires. The telephone situated in the old Volcano House was removed.

Two travel counts were taken at the Hilo entrance and 2 trips on goat control were made, one in the Hilina section and one in the Mauna Lea section. For the month of May, 12 goats were destroyed.

The equipment and water tank which were cached in the evacuation center #1 were removed. Some time was spent rounding up park horses around the six tanks area and bringing them down to the stables paddock.

On one of my tours in the Mauna Lea section, I observed that the six water tanks were empty. The water trough was inspected and the floater was found broken, causing the water to leak out. This was brought to headquarters, repaired, and installed again. The tanks are now more than half full.

A. B. Medeiros

A. B. Medeiros,
Ranger

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

June 2, 1944

MEMORANDUM for the Superintendent
(Through the Asst. Supt.)

Subject: Report for the Month of May, 1944

During the month, a great deal of time was spent on telephone repair work. From the pole at the Byron ledge trail, a check on line number 11 was made on which the Halemaumau line was put in service again. The telephone box at Halemaumau was taken out and replaced with a new one which was made during the week.

While on a patrol trip from the Hile to Kau entrance, a broken line, #10, between poles #750 and 749 was observed. This line was repaired and a test of the line was made to the park headquarters. At fire cache #1 two new poles were installed.

An inspection trip was made around the Kea plots below the 6 tanks area and this section was found in good condition. Another trip was made checking on the fence line surrounding the bird park area. Several spots are in need of repair as dry koa trees were observed over the fence line, and several other places were found down due to rotten poles.

On the 12th, Ranger Medeiros and I installed signs at the steaming bluff flats, Keanakakoi, Luamanu, Puhimau, Alealea, Makaopuhi, Kiluaea iki and Hile entrance.

A trip was made to the lower evacuation center, and the 350 gal. metal tank and all other equipment was hauled to the warehouse and wood shed.

A travel count was taken at the Hile entrance. A trip was made to the Keanakakoi crater to destroy names, which had been written with rocks, on the crater floor. A considerable amount of time was spent on fire equipment work and in the paint shop.

One day was spent around the 6 tanks, Mauaniu and Kipuka Ki sections looking for horses.

For the month, 18 goats were destroyed.


Thompson Kauhi,
Ranger

*Volcano report
for monthly report*

WORK REPORT

Hawaii National Park

March, April, May, 1944

Three days each week were spent working under the direction of Bernard Waltjen doing park maintenance work; and three days each week were spent doing work under the other departments.

For these three months the park maintenance work has consisted of: road repairing, hauling and cutting fire-wood, moving lawns about vacant houses, crating furniture, painting the interior of quarters #22, and miscellaneous odd jobs.

The other work has consisted of working on several projects:

1. The landscaping of the area in front of the Volcano House has not received the attention it should because of the pressure of other work, but whenever I have a little spare time I work at it. The exotic garden flowers there will be removed as I bring in native vegetation to replace them.

2. Work was begun on the food habit studies of the "Nene", the Hawaiian Goose, under the direction of Paul Baldwin. At present this work consists of the analysis of the previously collected droppings of Nene.

3. The park herbarium and plant card catalogues have been brought up to date in agreement with the "Survey of the Flora of Hawaii National Park" which is now in Mr. Fagerlund's hands for a final checking over. The indexing has not yet been done.

4. We have 17 months rainfall records from our rain-gauge stations at Cone Peak and Mauna Iki, 16 months from Devil's Throat, and 14 from Kamakaia Hills, Hilina Pali, and Puu Ohale. These rain-gauges were moved to new locations on Apr. 1, except for the one at Devil's Throat which is moved to near the Truck Trail on Mauna Loa at 5,600 feet on June 1. These new locations were agreed upon by G.O. Fagerlund and Ruy Finch. They are located near Makaopuhi Crater, Puu Huluhulu, Thurston Lava Tube, Kipuka Puauulu, and Ohaieka. Monthly records of all readings are on file in the Park Naturalist's office, the Volcanologists office, and with the U.S. Weather Bureau, Honolulu.

Arthur Mitchell

Arthur Mitchell

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

Wailuku Maui
May 31, 1944

Recd
6/5/44
JKB

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of May is respectfully submitted;

Introduction

The sudden order to the U.S.E. D. unit on Maui to cease all activities immediately and lay off all men except the real estate heads by the first of June climaxed the hectic scramble by the Army to build their Radio Building at the summit. No more work was done there after the 20th of the month. The Army is going to complete the construction themselves. Rumors are out that the outfit to do the rest of the work is still on the Mainland and that it will be a negro group.

All the radio poles are in at the base camp. There are so many of them it would be fitting to call the area "Haleakala National Forest".

Weather conditions in the park

Max. temp.-----68 degrees on the 31st.
Min. temp.-----36 degrees on the 20th.
Rainfall total-----2.02 inches
Clear days-----21
Partly cloudy days---9
Cloudy days-----1

Park inspections by National Park Service Officers

Assistant Superintendent Paul H. Baldwin paid a short visit to this section of the park the first part of this month.

Labor situation

The local employment office now feels that there may be a man available to fill the laborer position open here since the closing of the U.S.E.D. has thrown a number of men out of work on this island.

Public Service Contractors

The Maui Grand Hotel has offered no service to the public in the park as yet.

Cooperating Government agencies

Maui again changed Generals. Brig. General Eberle took over this month.

Upon a request to the real estate officer of the U.S.E.D. here to have the old C.C.C. bunkhouses turned over to the park before they closed their books that office ruled that since the houses were built as a project they are park property.

Increase or decrease in travel

Travel figures are still large due to the presence of so many members of the armed forces either visiting or stationed on Maui.

Exotic Animal control

Thirty-one goats were killed in the park this month.

Frank A. Hjort

Frank A. Hjort
Ranger in Charge

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

June 10, 1944

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for May.

A conspicuous steam cloud over the lower part of the 1942 lava flow from Mauna Lea shows that the lava was still hot 2 years after it was erupted.

May continued the seismic quiet of the last several months. The Mauna Lea seismograph registered 48 disturbances while the number recorded at Kilauea was 28. Only two shakes were strong enough to be felt locally and they were of Mauna Lea origin.

Tilt for the month was very slight to the NNW. Seasonal northerly tilt definitely started on April 1 or much earlier than usual.

There was but surprisingly little movement in the cracks near Halemaumau and along the Chain of Craters Road.

Some of the data obtained during the month is shown in the following table:

Week ended	Tilt	Seismic disturbances	Seismicity
May 7	Slight WNW	8	2.00
14	Very slight ENE	8	2.50
21	" " W	1	0.25
28	" " N	4	1.50

Work of R. H. Finch:

Some work was done on the Eller vertical seismograph. A portion of several days was spent in showing visitors through the Observatory. Some time was spent on the records of harmonic tremor. A preliminary report on harmonic tremor was prepared and sent to the Volcano Letter for publication. As usual, seismographic routine took up most of my time.

Work of Guy C. Omer:

Mr. Omer is regulating the Howard clock. In addition to helping

with the seismological routine Mr. Omer spent considerable time on harmonic tremor both as recorded here and the records from Italy and Japan.

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT

April, 1944

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.

ARNO B. CAMMERER,
Director.

RECEIVED AS FOLLOWS

May 25, 1944

MEMORANDUM for the Director:

There follows the report of activities for Hawaii National Park for the month of April, 1944:

Introduction

Of great importance nationally and locally were the decisions in federal courts by Judges Delbert Metzger and Frank McLaughlin in the Lloyd C. Dunson and Harry E. White cases. Judge Metzger held that martial law did not lawfully exist in the Territory of Hawaii during the year 1943, that the office of the Military Governor of the Territory of Hawaii is without lawful creation; and that the provost court at Pearl Harbor possessed no authority in law to try, find guilty and sentence the civilian petitioner. He ordered the petitioner freed from custody, his appearance bond cancelled, and his cash bail refunded. During the course of the trial there appeared, among others, witnesses Governor Ingram H. Stainback, Admiral Chester Kimitz and General Robert C. Richardson, present Military Governor of Hawaii.

In the White case Judge McLaughlin held that in his proclamation of martial law on December 7, 1941, former Governor Joseph Poindexter, purported to delegate judicial powers to the Commanding General, Hawaiian Department, and in so doing acted beyond the scope of powers conferred upon him by congress. He said this action was absolutely and wholly invalid and that the provost court which tried White had no jurisdiction over his person and the defendant was thus deprived of his constitutional rights.

Appeals to the 9th Circuit Court in San Francisco were noted in both cases.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 72° and 49° and at the Haleakala Ranger Station these recordings were 64° and 41°. Rainfall at Kilauea totalled 11.70 inches and at the Haleakala Ranger Station the rainfall totalled 0.49 inches.

Snow was visible in small patches on Mauna Kea and Mauna Loa throughout the month.

Superintendent's Special Activities:

The superintendent was at headquarters throughout the month

following his return from Honolulu on the 7th. On April 18, he attended an Executive Board Luncheon and meeting of the Boy Scouts in Hilo, and on that same date he also attended a meeting of the Y.M.C.A. On April 25, he gave a farewell speech at Mt. View, to a group of Selective Service inductees from the Puna District.

Selective Service Board meetings were attended throughout the month at Local Board No. 1, Olaa, Hawaii.

The assistant-to-the superintendent was in Honolulu and Maui on annual leave from April 13 to May 3.

Two very vexatious matters concerning army construction activity in the Haleakala Section and bus transportation to the Kilauea Section arose during the month requiring close personal attention. A report on the bus matter will be forwarded.

Interpretation

One bird talk was given at 29-miles, Volcano, to 14 girl scouts by the Asst. to the Supt., and two showings of the 1942 Mauna Loa eruption movies with explanatory talks were given at the Marine Hospital and U.S.O. situated at Kamuela, Hawaii, to a total of 740 marines.

Research and Observation

Blue fume was observed in Mokuaweoweo from an airplane on March 30. Some tourists who were at the northern edge of the Crater on April 1, also reported seeing blue fume. Several landslides from the walls of Halemaumau were noted. A total of 18 seismic disturbances were recorded at Kilauea, and 42 at Mauna Loa. A majority of the cracks near Halemaumau opened slightly and the largest movement was in the vicinity of the tourist stand.

The Park was represented by the Asst. to the Supt., at the annual Hawaiian Academy of Science meetings in Honolulu. Many valuable contacts were made with prominent scientists at the Bishop Museum and the University of Hawaii.

(In Haleakala, Valley Quail are numerous once more in the Park, but no chicks have been seen as yet.)

Cooperating Government Agencies

The Ranger-in-Charge Haleakala, reports that the Navy completed, within three days, an automatic weather station at Red Hill for which permission had been previously granted by the superintendent. The labor was performed by Sea Bees. This instrument eliminates the necessity of having to go to the summit after each rainfall to get a measurement, and will also give a constant record of wind direction and velocity, temperature, humidity, and air pressure.

Forest Protection

Minor repairs were made on the boundary fences in the Mauna Loa section. Twenty-six goats and 5 pigs were destroyed. One goat drive was attempted on April 9, but the contractor failed to show up with men. The park men went ahead anyway and found a few goats. It is believed that only a few goats remain in the upper sections of the Park, accounting for the low number of goats obtained in the last three drives.

In the Haleakala section, a total of 56 goats were killed.

Police Protection

A patrol was made of the Chain of Craters road on the 22nd. A local pig hunter was apprehended twice for passing through the park to hunt without a permit and was brought before the Superintendent for appropriate action. He made a signed statement that he would never again attempt to hunt in this vicinity.

Fire Protection

The park staff was given fire suppression instruction on April 7. Organization of the fire truck crew was reviewed and each person had opportunity to practice all the various functions. Eleven staff members attended.

Communications, trails

A major telephone job was completed with the reopening of the phone lines to Makaopuhi, Ainahou, Hilina Pali, Halemaumau and the Lava tube. It was found that steel poles in the steaming areas in Kilauea crater are subject to rapid corrosion, and many will have to be replaced at this time by wooden substitutes.

Inspections

The Asst. to the Supt., made an inspection trip to Haleakala and discussed problems with the Ranger-in-Charge. A representative of the U.S.E.D. was talked with concerning army installations on Red Hill. A day's trip was made to the Waiku section in Koolau gap to inspect goat damage and collect plants. Materials were sent the Ranger-in-Charge from Kilauea to start a study collection of Haleakala plants for use by the staff there and interested visitors. The procedures of plant collecting, pressing, mounting, and cataloging were demonstrated by the Asst. to the Supt.,

Travel

At Kilauea civilian visitors were estimated to total 13,494 and military visitors 13,815 compared with 11,978 and 10,022 for April 1943.

At Haleakala, visitors were estimated to total 9097 for the month

of April, including 8,725 in the armed forces. For the same month last year, civilian visitors were estimated to total 300 and military 1,180.

Visitors

Mr. and Mrs. Worth Aiken, prominent Maui and Honolulu businessman and fine park friend, for two weeks given special attention by the superintendent, Mr. E. L. Knickerbocker, Asst. Manager, Von Hamm Young Ltd., Honolulu, Mr. E. E. Bodge, Manager, Von Hamm Young Ltd., Honolulu, and Mr. and Mrs. F. D. Lowry, Lewers & Cooke, Honolulu, were guests at the Volcano House during the month.

The Ranger-in-Charge Haleakala section reports that several very hospitable people on Maui have submitted their names to the 7th Air Force in order that officers who wish to, may visit them and obtain a short rest and a little recreation. Only fliers, bombardiers, etc; who have completed thirty missions are eligible to take advantage of these offers. The trip is to be made during the time these men are waiting orders to go back to the mainland so they must be near a telephone at all times. Since the crater phones have been installed, Ranger Hjort expressed his willingness to take some of these men into the crater on his routine trips. Four such men, made the trip with him this month. Ranger Hjort says, "these men have been under great nerve strain and deserve all we can do for them."

Miscellaneous

An official marker honoring Brig. Gen. Albert K. B. Lyman, who died Aug. 13, 1942, while serving as department engineer, Hawaiian Department, will be erected at the entrance to General Lyman field in Hilo, formerly Hilo airport.

Baccillary dysentery has reached epidemic proportions on Maui. It is estimated that there are at least 70 civilian cases on the Island of Maui, but only one death has been officially attributed to the disease.

Immediate recognition of Hawaii as a state will be a principal plank in the Democratic platform to be recommended by the platform committee to the Democratic Convention. Committee members are strongly of the opinion that Hawaii is fully able to govern itself and in view of the territory's contribution to the war effort should be recognized as a state at once.

Tracing the activities of volcanoes through the world in the past few years, Dr. Thomas A. Jaggar, research associate in volcanology at the University of Hawaii, told members of the Academy of Science that by some freak of fortune, underground disturbances seem to occur in areas where warlike activities are most pronounced. He pointed to the eruption at Rabaul in 1941, Niuafouu volcano in Tonga in 1943, Mauna Loa in 1942 and 1943, Krakatoa in 1942, and Vesuvius in 1944. He said, "there seems to be an interval of a third of a century between great volcanic crises."

Mr. L. David Larsen, Vice President of C. Brewer and Co., Ltd., Honolulu Sugar Factors, and one of the most prominent businessmen in the Territory, died suddenly on April 8. Mr. Larsen had a host of friends in the islands including several park personnel.

Edward G. Wingate,
Superintendent

Orig. & 4 - Director
c.c. - Regional Director

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

May 9, 1944

MEMORANDUM for the Superintendent:

The monthly report for April 1944 on the activities of the Ranger Division and the Asst. to the Supt., is submitted.

Police Protection

A patrol was made of the Chain of Craters road on the 22nd. A local pig hunter was apprehended twice for passing through the park to hunt and was brought before the Superintendent for appropriate action.

Fire Protection

The park staff was given fire suppression instructions on April 7. Organization of the fire truck crew was reviewed and each person had opportunity to practice all the various functions. Eleven staff members attended.

The Volcano House staff was drilled on April 12.

Spare parts to replace corroded and damaged back-pack pump parts were ordered; also a number of first aid items to round out our emergency supply.

The quarterly fire and sanitation inspection was performed and a report submitted by Ranger Medeiros.

Forest Protection

Minor repairs were made on the boundry fences in the Mauna Loa section.

Twenty-six goats and 5 pigs were destroyed. One goat drive was attempted on April 9, but the contractor failed to show up with men. The park men went ahead anyway and found a few goats. It is believed that only a small number of goats remains in the upper section, accounting for the low number of goats obtained in the last three drives.

Communications, trails

A major telephone job was completed with the reopening of the

phone lines to Makaopuhi, Ainahou, Hilina Pali, Halemauau and the Lava tube. The two rangers were busy on this work most of the month checking lines, replacing poles, installing brackets, and building switchboxes. A short on line 8 was eliminated. It was found that steel poles in the steaming areas in Kilauea crater are subject to rapid corrosion. Many will have to be replaced at this time by wooden substitutes.

Work continued on trail and road sign painting.

Interpretation

One bird talk was given at 29-miles to 14 girl scouts. Two showings of the 1942 Mauna Loa eruption movies with explanatory talks were given at the Marine hospital and U.S.O. at Kamuela to a total of 740 marines. The 16 mm. movie projector was taken to Hilo for checking.

Inspections

The Asst. to the Supt., made an inspection trip to Haleakala and discussed problems with the Ranger-in-charge. A representative of the U.S.E.D. was talked with concerning army installations on Red Hill. It is felt that Hjort is doing everything possible at the present time to control the situation. A day's trip was made to the Waikau section in Koolau Gap to inspect goat damage and collect plants. Materials were sent the Ranger-in-charge from Kilauea to start a study collection of Haleakala plants for use by the staff there and interested visitors. The procedures of plant collecting, pressing, mounting and cataloging were demonstrated by the Asst. to the Supt.

Travel

Travel data were obtained on the 29th and 30th of April.

Administrative duties

Plans for deferred maintenance projects were worked out. Efficiency ratings were completed but it was decided to hold them up for entry on the revised forms.

The park was represented by the Asst. to the Supt. at the annual Hawaiian Academy of Science meetings in Honolulu. Many valuable contacts were made with prominent scientists at the Bishop Museum and the University of Hawaii.

Paul H. Baldwin

Paul H. Baldwin,
Asst. to the Supt.,

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

May 3, 1944

MEMORANDUM for the Superintendent:
(Through the Asst. to the Supt.)

Subject: A Report of Activities for the Month of April, 1944.

A considerable amount of time was spent repairing telephone lines. The clearing and repairing of line #11 which leads from Ainahou road to Hilina has been completed and line #9 leading from Kilauea iki switch pole to the lava tube has also been put in order. Line #11, in the Kilauea iki Halemaumau section, is still under repair. This section was found in very bad shape. About 80 per cent of this section is in need of renewal. There are decayed poles and brackets, and the steel poles, wooden brackets, and a few wooden poles need to be replaced. Only temporary repairs can be made in this section at present.

Some fence repair work was done in the Mauna Loa section and some time was spent shoeing some of the park horses.

Some time was spent on goat and pig control. 8 goats and 3 pigs were destroyed. Some time was also spent on sign painting.

Fire and sanitation inspection was performed and a fire drill was held for the Volcano House employees.

A trip was made to Hilo to pick up a message from the Naval Air Base.

A travel count was taken at the Hilo Entrance.

I notice that the Hilina water tank is in very bad shape and suggest that this tank be exchanged with one of the two small tanks which are in back of the wood shed at present.

A. B. Medeiros

A. B. Medeiros,
Ranger

OK
P.H.B.
Eju

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

May 3, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Supt.)

Subject: Report for the month of April, 1944.

The greater part of the month was spent on a telephone line replacing poles on line #11. On the 12th, a switch box was installed near the Kilauea iki trail above the former CCC camp. Connections were made on line #9 and #11 through the cable to park headquarters. Also repaired a swing short about a half mile in the Hilina line. On the 21st, a short on line #8 was reported. A check was made and it was found that the trouble was caused by a branch over the line near the Finch residence. On the 24 and 25 the Hilina line was checked from Nene to Hilina shelter. Several spots were found in need of new brackets and insulators, both standard and strand type were used. Two poles were found down below the nene shelter and these were repaired.

On the 26th, a test was made on the cable line to the switch box above the former CCC camp. A test was also made by switch box at the former Summer Camp. Phone calls were also made through Devil's Throat and Makaopuhi telephones. On the 27th two new poles were installed above the Hilina Shelter while three poles were straightened. Near the Hilina shelter two strands of galvanized wire of about 40 ft. were strung out. Also installed a wall type phone in the Hilina shelter. While on this job, goats were sighted and 5 were destroyed. On April 28th, a trip was made to the Halemaunau crater where a check-up on the telephone line was made. This line is in need of new poles, several brackets and insulators. The iron poles have rotted and the brackets have broken. Two new poles are also needed near the pali on the same line.

Fire inspection

From the 18th to the 20th, a check on fire and sanitation was made. The extinguishers in quarters No. 2, 3, 4, 5, 6, 7, 15, 16, 18, 22, 23, and in cars #785, 789, ~~784~~, 787, 798, 799, 801, 781 and No. 13, were inspected and tested, and all were found in good working condition.

Travel Count

On the 30th, a travel count was performed at the Hilo entrance, and on the 22nd a patrol was made of the Chain of Craters road.

Wildlife

On April 9th, goat control work was performed with several park employees, at which time two goats were destroyed.

For the month, a total of nine goats were destroyed.

Thompson Kashi
Thompson Kashi,
Ranger

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

Wailuku Maui
May 21, 1944

Recd
5/23/44
PMB

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of April is respectfully submitted;

Introduction

The necessary running around and conferences caused by the Army moving in and wanting to construct more buildings in the park took most of my time this month. It seems that the Army does not know what they are going to do.

General weather conditions in the park

Max. temp.-----64 degrees on the 24th.
Min. temp.-----41 degrees on the 4th and 5th
Rainfall total-----0.49 inches
Clear days-----9
Partly cloudy days-----14
Cloudy days-----7

The rain gage at the summit was emptied by service men every time it rained so that record was lost. Future recordings at the summit will be published in the Climatological Data by the Weather Bureau.

Equipment and supplies

Arrival from the Kilauea section of a plant press and necessary equipment to mount plants this month will be of great help to this section as there exists no collection of plants from this section of the park.

Public service contractors

No service was rendered the public this month by the Maui Grand Hotel.

Cooperating Government agencies

The U.S. Navy completed its work at Red Hill in about three days. With the Sea Bees for labor an automatic weather station was installed. This instrument eliminates the necessity of having to go to the summit after each rainfall to get a measurement and will also give a constant record of wind direction and velocity, temperature, humidity, and air pressure. If any of the armed services are allowed to retain their buildings etc. in the park after the war I feel that this one is the most worth while. The Ensign in charge of this work said a complete plan of the location, size, etc. of the installations would be sent us as soon as they are drawn up.

The Provost Court on Maui refused to try a case involving two Army men caught below the park with three pheasants and a .22 caliber rifle. The data was all turned over to Colin G. Lennox, president of the Territorial board of Commissioners of Agriculture and Forestry.

Cooperating non-government agencies

Haleakala Ranch has asked several times when we can construct a fence from the grove of trees just east of Puu Nianiau to just below where the Halemau-u trail hits the top part of the cliff. This fence--about a mile in length would keep all of their cattle out of the park as promised some time back. This project is worth while even during the war if some means can be found to build it.

Birds

Valley Quail are numerous once more in the park but no chicks have been seen yet.

Several broods of pheasants have been seen along the road---one with twelve chicks. One hen pheasant hatched out her eggs in our back yard.

Increase or decrease in travel

Travel was very heavy this month with 9097 people visiting the park. Presence of service men on the island accounted for the increase.

Visitors

Several very hospitable people on Maui have submitted their names to the 7th Air Force in order that officers who wish to maymay visit them and obtain a short rest and a little recreation. Only fliers, bombardiers, etc. who have completed thirty missions are eligible to take advantage of these offers. The trip is made during the time these men are waiting orders to go back to the mainland so they must be near a telephone at all times. Since the crater phones were installed here I have expressed my willingness to take some of these men into the crater with me on routine trips. Four such men made the trip this month. Three were guests of Ray Allen of Wailuku Sugar Co. and one was a guest of Walter Cameron of Maui Pineapple Co. One man was a pilot, one a co-pilot, one a bombardier and the other one was both a navigator and a bombardier. All had been flying in liberators in the Central Pacific Area and from what experiences they were allowed to tell they must have had some hair-raising times. These men have been under great nerve strain and deserve all we can do for them.

Exotic Animal Control

Fifty-six goats were killed in the park this month.

Signs.

Several new signs have been installed to replace old illegible painted ones. All are the ones made with the branding irons mentioned last month.

Frank A. Hjort
Frank A. Hjort
Ranger in Charge

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

May 12, 1944

MEMORANDUM for the Superintendent:

Report of the Hawaiian Volcano Observatory for April:

Blue fume was observed in Mokuaweoweo from an airplane on March 30. Some tourists who were at the northern edge of the crater on April 1, also reported seeing blue fume. Several landslides from the walls of Halemaumau were noted.

April was very quiet seismically at Kilauea where 18 seismic disturbances were recorded. At Mauna Loa 42 seismic disturbances were registered.

Tilt for the month was slight to the NNW. If the normal tilt is to continue this means that seasonal northerly tilt started earlier than usual.

A majority of the cracks near Halemaumau opened slightly. The largest movement was in the vicinity of the tourist stand.

Some of the data obtained during the month is shown in the following table:

Week ended	Tilt	Seismic disturbances	Seismicity
April 2	Slight WSW	14	10.00
9	Very slight E	4	1.00
16	Slight NW	5	1.25
23	Mod. NNE	6	2.25
30	Slight WSW	3	1.00

Work of R.H. Finch

In addition to the seismological routine which was kept current, all other available time was spent on old records of harmonic tremor.

Work of Guy C. Omer:

In addition to assisting in seismological routine, Mr. Omer spent some time on magnetic work and tabulating data on harmonic tremor.

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1920)

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

FILE NO.

MONTHLY REPORT

March, 1944

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.

ARNO B. CAMMERER,
Director.

April 29, 1944

MEMORANDUM for the Director:

There follows the report of activities for Hawaii National Park for the month of March, 1944:

Introduction

On March 14, there was filed in federal court in Honolulu, by Garner Anthony, former Territorial Attorney General, a petition for writ of habeas corpus in behalf of a civilian worker at the Pearl Harbor Navy Yard who had been tried by a Provost Court, sentenced and jailed. Provost Courts were set up under Martial Law by the military and this case directly challenges the continued existence of martial law in Hawaii. It is expected that high ranking army and navy officers and civilian officials will be called as witnesses. In his petition Mr. Anthony contended that, "a state of martial law does not lawfully exist within the Territory of Hawaii."

The present military control of certain classes of labor in Hawaii was also challenged, on March 28, in a memorandum to the President from organized labor unions. The memorandum was entitled, "Military Control of Hawaiian Labor."

In connection with these moves to secure full restoration of civil government, it should be said that many persons have expressed themselves as favoring continuance of military government.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 74° and 42°, and at the Haleakala Ranger Station these recordings were 66° and 36°. Rainfall at Kilauea totalled 4.87 inches and at the Haleakala Ranger Station the rainfall totalled 4.41 inches.

Snow was visible on Mauna Loa and Mauna Kea throughout the month. On March 4th, we had an exceptionally high wind which was damaging to buildings and trees particularly on the west side of Kilauea and in the Kona and Kohala Districts of Hawaii, and the Ranger-in-charge Haleakala, reports that Maui experienced one of their worst wind storms recently, causing severe damage. Thousands of Keawe trees were uprooted, buildings were destroyed, many palm trees, especially the royal palm were broken or uprooted, and all lights and telephone communication were out for a time. This wind came from a south-southwest direction and was accompanied by copious quantities of rain.

Superintendent's Special Activities:

The superintendent was at headquarters throughout the month with the exception of 4 days which were spent on a long deferred inspection of Waipio valley on Hawaii. He left headquarters on the 30th for a trip to Honolulu.

On March 7, he attended a meeting of the Community Committee on Vocational Guidance at the Chamber of Commerce in Hilo. On March 8, he and one of the Park laborers made a trip to Kalapana to look over the new road. On March 14, the superintendent, along with three employees from the Park, went to Waipio Valley, returning on the 17th. On the 18th, he attended an annual meeting of the Y.M.C.A. at which time he was elected president for this year. On the same date he attended the 25th Anniversary Dinner and meeting of the Boy Scouts at the Hilo Hotel.

Selective Service Board meetings were attended during the month at Local Board No. 1, Olaa Hawaii.

Personnel

Laborer Demetri Gamsky resigned on the 25th and the Haleakala Section is again left with only one employee on duty.

Interpretation

At Haleakala the largest number of people ever to camp in the crater did so this month. 970 military men spent one night in the crater and 43 civilians spent at least one night in the crater.

Research and Observation

A total of 7 seismic disturbances were recorded in about 3 hours during the evening of March 29. Three of the shakes were strong enough to be felt locally. The series of shakes was started by the strongest which dismantled the Bosch-Omori seismographs near Park headquarters. The origin of the earthquakes was quite deep under the southern end of Kilauea Crater. Forty-four seismic disturbances were recorded at Kilauea and 59 at Mauna Loa during the month.

The strong southerly wind of March 4 did some damage locally. One tree blew down onto an unused shed in the Hotel grounds. Some damage was done to two buildings at the Kilauea Military Camp and one park quarters. The wind raised conspicuous dust clouds in the Kau Desert and over cultivated fields in Kapapala ranch lands. Such winds may have been an appreciable factor in developing soil over the vegetated portions of the N.E. slope of Mauna Loa.

A few of the cracks near Halemaumau and along the Chain of Craters Road showed a slight opening but the majority showed no movement.

Dr. Chester K. Wentworth, who is with the Board of Water Supply in

Honolulu, spent a few weeks in the Park, at which time a study of harmonic tremor, (volcanic vibration), was started.

A report on the distribution of nene in the Hawaiian Islands embodying records collected by interviews with local people by the Asst. to the Supt., was submitted during the month.

A letter was received from Dr. R. L. Usinger, an entomologist who has studied certain groups of Hawaiian insects, acknowledging receipt of specimens of a bug collected by the Asst. to the Supt., Baldwin, in Haleakala Crater, last November. The bug was described as a new sub-species by Dr. Usinger and named (*Icteronyssius ochriasis baldwini*).

Cooperating government agencies

On March 25th, it was necessary to lodge a written complaint with the army District Commander regarding certain heavy units using the "Kau Desert Impact and Training Area" on days, when by military order, it was to be open to the public. Firing was commenced without notification to this office. Corrective action was taken by the District Commander in the presence of the superintendent on the 29th.

Forest Protection

Cattle damage occurred in Kipuka Ki when 20 cattle crossed the cattle guard and remained in the forest for a week or so.

Goat and pig control operations by park personnel resulted in destruction of 27 goats, 10 pigs, and 10 pig fetuses.

In the Haleakala section, a total of 42 goats were killed.

Police Protection

On the 19th of the month a report was received that one of the vacant houses in the park had been broken into. This was immediately investigated, and it was found to be true. No damage was evident. The door was fastened and closed more securely with a hasp and padlock.

Fire Protection

One fire call was received during the month on March 16. The fire alarm signal was given and our fire crew and the Kilauea Military Camp truck arrived efficiently. At the time of first arrival the fire was out except for a few smoking spots at the base of a tree. Neighborhood children had kindled a bonfire which lept up on to the bushes. It had been controlled by the wife of one of the employees.

Three fire fighting instruction sessions were held during the month. The park staff reviewed starting of park pump, operation of fire truck, etc; the Volcano House employees were instructed and given practice in extinguishing small oil fires, and the park women were drilled in the

operation of all extinguisher types used in the park.

The ranger-in-charge, Haleakala section reported that the lower barracks at the A.W.S. base camp near Puu Nianiau caught on fire one day during the month, and was finally brought under control by the men there with fire extinguishers. The fire was caused by the leakage of oil from an oil burning hot water heater. The damage was not great as the fire was confined to the wash room.

Communications, etc:

The Chain-of-Craters - Hilina Pali telephone line was disconnected from the Kilauea Military Camp switchboard after waiting in vain for a reply from the army which no longer used the line. It was put back on the Park switchboard. The following stations are now in operation: Makaopuhi, Hilina Pali road junction and Ainahou Ranch. The Lava Tube phone was put back into operation after 2 days of work.

Cable line terminal and switchboard terminal connections were restored to their pre-war pattern with few modifications. All connections were properly soldered.

At Haleakala, all three Crater Cabins now have telephones in them and all are working well. The day the job was finished, a navy man was called out of the crater where he was taking his five day leave. Had it not been for the telephone at Paliku cabin, he might have missed his plane to the mainland.

Equipment and Supplies

At Haleakala, six mules were received from the army pack train station at Schofield Barracks, Honolulu, this month. These mules had been declared surplus by the army as they are no longer needed. They are all 15 years old or older but are in excellent shape and can be worked with harness, packed, or ridden and will probably be useful in after-the-war work.

Travel

At Kilauea civilian visitors were estimated to total 9,332 and military visitors 12,690 compared with 16,078 and 13,334 for March 1943.

Travel figures for the Haleakala Section are not available at the present time.

Visitors

Mr. David Larsen, Vice President of C. Brewer & Co., Mr. Frank Midkiff, Trustee of the Bishop Estate, and Mr. George Fuller, Vice President, Bank of Hawaii, Honolulu, were guests at the Volcano House during the month.

operation of all extinguisher types used in the park.

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At Haleakala, all three Crater Cabins now have telephones in them and all are working well. The day the job was finished, a navy man was called out of the crater where he was taking his five day leave. Had it not been for the telephone at Paliku cabin, he might have missed his plane to the mainland.

Equipment and Supplies

At Haleakala, six mules were received from the army pack train station at Schofield Barracks, Honolulu, this month. These mules had been declared surplus by the army as they are no longer needed. They are all 15 years old or older but are in excellent shape and can be worked with harness, packed, or ridden and will probably be useful in after-the-war work.

Travel

At Kilauea civilian visitors were estimated to total 9,332 and military visitors 12,690 compared with 16,078 and 13,334 for March 1943.

Travel figures for the Haleakala Section are not available at the present time.

Visitors

Mr. David Larsen, Vice President of C. Brewer & Co., Mr. Frank Midkiff, Trustee of the Bishop Estate, and Mr. George Fuller, Vice President, Bank of Hawaii, Honolulu, were guests at the Volcano House during the month.

Miscellaneous

Dr. Thomas A. Jaggard, research professor of volcanology at the University of Hawaii, recently spoke on his development of a new instrument, the sclerometer, for measuring abrasion hardness, at the Engineering Association of Hawaii. Dr. Jaggard exhibited and explained a sclerometer and told of the role it is playing in the armor plate testing field. Forty years ago Dr. Jaggard wrote his doctor's thesis on the hardness of metals. His thesis was built around the microsclerometer, an instrument he had developed for determining hardness.

Airports, highways, bridges, water developments, sewers, flood control, fisheries, development and conservation of Hawaii's natural resources, are included in a comprehensive postwar construction plan now being formulated. It was emphasized that in preparation for the postwar period, one of the first things to be accomplished is the formulation of a definite and detailed program for presentation to the legislature.

The March tonnage of truck crops is 2,140 tons, a 50 per cent increase compared to the same month last year.

Chinchona, sometimes called the Fever Tree, from which comes quinine, (the best known specific in combatting the dreaded malaria), will grow on the Big Island. Two species of it have been growing here for the past 60 years and experimental planting of a third species, (richest quinine content), is now well under way. Succirubra, (red bark) and Officinalis, (crown bark) are the species which have been growing on the island from original plantings made 60 years ago. Being introduced is the very rare Ledgeriana, (Ledger's bark), from the two million seeds which Lt. Col. Arthur F. Fischer and the crew of a battered flying fortress flew out of the Philippines on orders of General D. MacArthur.

The local press reported that the Senate committee on territories and insular affairs may send a mission to Hawaii to survey war time developments and possibly look into the question of self government for the islands if Hawaii is agreeable.

Of local political interest was the signing of the Democratic party rolls by former Territorial Senator Charles Rice of Kauai, long a Republican and power in local government. His brother Harold of Maui island had similarly switched about a year ago.

Edward G. Wingate,
Superintendent

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

April 8, 1944

MEMORANDUM for the Superintendent:

The monthly report for March 1944 on activities of the Ranger Division and the Asst. to the Supt. is submitted.

Police Protection

On the 19th of the month a report was received that the Jagger's bed house had been broken into. This was immediately investigated, and it was found to be true. No damage was evident. The door was fastened closed more securely with a hasp and padlock.

High winds on the 4th necessitated a patrol of the Crater Rim and Chain of Craters roads to remove windfalls. Several small trees and a number of branches were removed.

Fire Protection

The Superintendent's October report for Mt. Rainier National Park described the efficiency of the 2½ gallon foam type fire extinguisher in putting out an oil fire in portable heating equipment used in road patching. It is recommended that this park acquire foam type extinguishers when possible to replace soda acid extinguishers now in residence garages.

Three fire fighting instruction sessions were held as follows:

- March 15. Park staff reviewed starting of park pump, operation of fire truck, and location of hydrants.
- March 17. The Volcano House employees were instructed and given practice in extinguishing small oil fires with their one quart CCE4 and foamite extinguishers. As is done every drill, the importance of turning in fire alarms promptly was stressed.
- March 17. The park women (9 attended), were drilled in the operation of all extinguisher types used in the park. Instructions for turning in fire alarms were reviewed.

One fire call was received during the month, on March 16. The fire

alarm signal was given and our fire crew and the K.M.C. truck arrived efficiently. At the time of first arrival the fire was out except for a few smoking spots at the base of a tree. Neighborhood children had kindled a bonfire which lept up into the bushes.

All back pack pump outfits were completely inspected and where necessary, reconditioned. All first aid kits were refilled.

Forest Protection

Cattle damage occurred in Kipuka Ki when 20 cattle crossed the cattle guard and remained in the forest for a week or so. An inspection of the fence showed the bar gate above the road to be in need of repairs. Ranger Kauhi fixed it temporarily. 30 cattle were seen back in the kipuka at the end of the month.

A goat drive was conducted on March 5 by L. Villa, but no goats were captured.

Goat and pig control operations by park personnel resulted in death to 27 goats, 10 pigs, and 10 pig fetuses.

Communications, etc.

The Chain of Craters - Hilina Pali line was disconnected from the K.M.C. switchboard after waiting in vain for permission to do so from the army, which no longer uses the line. It was put back on the park switchboard. The following stations are now in operation: Makaopuhi, Hilina Pali road junction, Ainahou Ranch. The Hilina pali spur is not yet in operation.

The Lava tube phone was put back into operation after 2 days of work on line #9.

Cable line terminal and switchboard terminal connections were restored to their pre-war pattern with few modifications. All connections were properly soldered.

Trail signs were repainted and a forge was repaired.

Work was completed on a buzzer for the park switchboard to insure the telephone operator's hearing incoming calls.

Travel

The trend of travel started upward this month after a rather prolonged slump since last summer.

Travel counts were made on the 28th and 29th.

Research

A report on the distribution of nene in the Hawaiian Islands embodying

records collected by interviews with local people by the Asst. to the Supt., was submitted during the month.

A letter was received from Dr. R. L. Usinger, an entomologist who has studied certain groups of Hawaiian insects, acknowledging receipt of specimens of a bug collected by the Asst. to the Supt., in Haleakala Crater last November. The bug was described as a new subspecies by Dr. Usinger and named *Nesels (Icteronyssus) ochriasis baldwini*.

Several articles on plant control techniques were sent for.

Bird censuses were taken at the end of the month.

Administration

Improvement was noted in drivers reports submitted during March.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to the Superintendent

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

April 4, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to Supt.)

Subject: A Report of activities for the Month of March, 1944:

Some time was spent in the machine shop repairing an old blacksmith forge, formerly owned by the CCC. Also, some sign painting work was done. Two pig and one goat control drive was performed. During this drive 16 pigs and 6 goats were destroyed. 10 of these pigs were unborn.

Two travel counts were performed at the Hilo entrance and a few office duties performed. Some fire fighting equipment was inspected, and I attended two fire drills.

Some time was spent repairing a fence ⁱⁿ the Mauna Loa section. All first aid equipment was checked upon and refilled.

Considerable time was spent in repairing and clearing telephone lines number 9 and 11. Both line #9 from the Kilauea iki switch box to the lava tube, and line #11 from Kilauea iki switch box to Makaopuhi, were found in bad shape. Broken wires, decayed poles, fallen trees, fern leaves and tree limbs which were over wires were cleared out. A few new poles were installed and some broken ones were repaired. Both lines are now in use.

At present there is in the crater, above the lava tube rest house, two dead trees. These trees are no more than a foot clear on each side of the telephone line and I suggest that they be cut down to avoid damage in case they should fall, and besides, they could be used for firewood.

A. B. Medeiros

A. B. Medeiros,
Ranger

UNITED STATES
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April 3, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Supt.)

Subject: Report for the Month of March, 1944

Forest Protection

On March 7, 8, and 10, I performed pig control work covering the following sections: Fern jungle, Puhimau, Kookoolau, Devil's Throat, Pauahi, and along the Keahou road and Alealea. On the 25th another day was spent on pig control along the Keahou road, and on the same day I took two enlisted army boys up the Kipuka Ki and through the Fire Kipuka areas on goat control work. A check was made on the fence line from the first cattle guard down to the stonewall, and it was found that the bar gate post needs replacing and that Koa trees ~~growing~~ by the fence line should be removed.

Communication

March the 6th, 20, 21, 22, 24, 28, 30 and 31st, was spent on telephone line work covering the Makaopuhi to Headquarters, and Aina-hou to headquarters areas, and the lava tube to headquarters area. On the 6th several shorts were found on line #15 between quarters #23 and 24, 24 and 25. On line #10 one pole was put up at the first cattle guard.

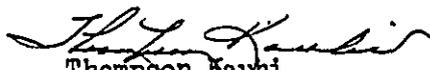
Fire protection

On the 16th and 17th, hydrants around the observatory building were cleared and fire drills were attended at the Volcano House and in the residential area.

Police work

Travel counts for the month were made on the 28 and 29 at the Hilo Entrance.

For the month, one goat and one pig were destroyed.


Thompson Kayni,
Ranger

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Wailuku Maui
April 14, 1944

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of March, 1944 is respectfully submitted;

Introduction

One of the worst wind storms ever seen by even the old-timers here recently caused sever damage. Thousands of Keawe trees were uprooted, buildings were destroyed, many palm trees, especially the royal palms were broken or uprooted, and all lights and telephone communication were out for a time. This wind came from a south-southwest direction and was accompanied by copious quantities of rain.

The Army is once more starting a spurt of building activity---this time beyond Kolekole point out along the ridge toward Ulapalakula. None of this work is within the park so is not causing us too much trouble. The exact nature of the new establishment is not known but is presumed to be some sort of radio station. The main building is to be of brick. As usual rumors are rampant as to what the Army intends to do next. One rumor has it that a road is to be constructed from these installations down to the Ulapalakula road but nothing for sure has been stated.

General weather conditions in the park

Max. Temp.-----66 degrees on the 11th.
Min. Temp.-----36 degrees on the 28 and 30th or 31st.
Rainfall total (R.S.)----16.57 inches.
Rainfall total (Summit)--17.30 inches.
Clear days-----8
Partly cloudy days-----5
Cloudy days-----18

Labor situation

Laborer Demetri Gamsky quit and left this section of the park on the 25th. This again leaves this section of the park with only one man on duty.

Equipment and supplies

6 mules were received from the Army park train station at Schofield Barracks this month. These mules had been declared surplus by the Army as they are no longer needed. They are all 15 years old or older but are in excellent shape and can be worked with harness, packed, or ridden.

With the help of the Navy boys that have enjoyed their 5 day leave in the crater a complete alphabet of 1 1/2 inch branding irons were made to use in making trail signs.

Improvements

All three crater cabins now have telephones in them and all are working well. The day the job was finished a Navy man was called out of the crater where he was taking his five day leave. Had it not been for the telephone at Paliku Cabin he might have missed his plane to the mainland. A new telephone has been installed in the office here too. Previously the phone was in the residence where it was most likely to be answered, but now can be answered from either place. This phone is connected to the commercial line by switch.

Public Service Contractors

No service was rendered to the public this month by the Maui Grand Hotel.

I do not feel that the Hotel management have been sincere in their efforts to offer crater trips to the service men and the general public. Recently I made a trip to Oahu by Navy plane and spent the night there at my own expence to try and help the Maui Grand Hotel buy some of the mules that the Army has to offer at Schofield Barracks. I succeeded in securing the six mules mentioned elsewhere in this report and got them delivered to the Ranger Station without expence to the Park Service. Mr. Tollerfero who went with me to Schofield Barracks was offered first pick of any of the twenty-nine mules that were in the corral at that time for his own price. He turned them down on the grounds that they were too large and too old. While the mules are large and old I feel that they ought to be good enough for servicemen to ride into the crater for the duration. The Army also offered to ship any mules bought by the Maui Grand along with ours on an Army ship. While it is up to the Hotel to buy their own stock I do not feel that I am any longer obligated to help them along these lines.

Increase or decrease in travel

Travel figures showed the largest number of visitors to the park for the last four years at least. Most of these were military with the civilian figures about the same as last month.

Public camps

The largest number of people ever to camp in the crater did so this month. 970 military men spent one night in the crater and 43 civilians spent at least one night in the crater.

Fire protection

The lower barracks at the A.W.S. base camp near Puu Nianiau caught on fire one day this month and was finally brought under control by the men there with fire extinguishers. The fire was caused by the leakage of oil from an oil burning hot water heater. The damage was not great as the fire was confined to the wash room.

Destruction of predatory animals

42 goats were killed in the crater this month.

Frank A. Hjort
Frank A. Hjort, Ranger in Charge

UNITED STATES
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HAWAII NATIONAL PARK
HAWAII

April 10, 1944

MEMORANDUM for the Superintendent:

(Report of the Hawaiian Volcano Observatory for March.)

While flying over Mokuaweoweo on March 30, Ranger Frank Hjort observed blue fume arising from the crater.

A total of 7 seismic disturbances were recorded in about 3 hours during the evening of March 29. Three of the shakes were strong enough to be felt locally. The series of shakes was started by the strongest which dismantled the Bosch-Omori seismographs near Park Headquarters. The origin of the earthquakes was quite deep under the southern end of Kilauea crater. On March 5 a shake strong enough to be felt locally originated from the same place. Forty-four seismic disturbances were recorded at Kilauea and 59 at Mauna Loa.

The strong southerly wind of March 4 did some damage locally. One tree blew down onto an unused shed on the Hotel grounds. Some damage was done to 2 buildings at K.M.C. The wind raised conspicuous dust clouds in the Kau Desert and over cultivated fields in Kapapala ranch lands. The dust blew over the northeast slope of Mauna Loa. Such winds may have been an appreciable factor in developing soil over the vegetated portions of the NE slope of Mauna Loa.

A few of the cracks near Halemauau and along the Chain of Craters Road showed a slight opening but the majority showed no movement.

The southwest tilt for the month was slightly greater than the normal.

Some of the data obtained during the month is shown in the following table:

<u>Week ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
March 5		9	7.0
12		5	1.5
19		8	2.0
26		11	3.5

Work of R. H. Finch:

Several fruitful discussions were held with Dr. C. K. Wentworth prior to his return to Honolulu on April 6. A study of harmonic tremor, (volcanic vibrations), was started. Seismological and meteorological routine took up most of my time.

Work of Guy C. Omer:

In addition to assisting in seismological routine, Mr. Omer was busy working on the Hilo seismograph clock, the Mauna Loa time circuit, and some other odd jobs. He was on vacation during the last week of the month during which he had conferences with Dr. Jagger, Dr. Wentworth and Commander Patersen of the U.S. Coast and Geodetic Survey in regard to instruments for magnetic work at Hawaii National Park.

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

FILE NO.

MONTHLY REPORT

February, 1944

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.

ARNO B. CAMMERER,
Director.

March 22, 1944

MEMORANDUM for the Director:

There follows the report of activities for Hawaii National Park for the month of February, 1944:

Introduction

The most important event of the month was the visit of Lt. David Canfield, U.S.M. formerly Superintendent, Rocky Mountain National Park. His visit gave this park its first personal contact with any mainland Service personnel since the last superintendents conference in 1941. Lt. Canfield's visit was brief but he was shown as much of the park as time permitted, met most of the employees, and had a chance to hear some genuine Hawaiian music. Lt. Canfield is by now probably elsewhere in the Pacific theatre.

An article in the local press, February 3rd, stated that a photostatic copy of a Presidential pardon for Lt. General Robert C. Richardson had been received in Honolulu. Thus the widely publicized 'Habeas Corpus' case was ended.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 71° and 38°, and at the Haleakala Ranger Station these recordings were 69° and 32°. Rainfall at Kilauea totalled 11.58 inches and at the Haleakala Ranger Station the rainfall totalled 1.29 inches.

Mauna Loa and Mauna Kea were snow capped beginning February 18th. On the 24th, the snow on Mauna Kea was down to the 8,750 ft. level. There still remains a considerable amount of snow. There was a heavy frost on the 9th in the 29-mile area, east of Kilauea, which was damaging to the vegetable gardens.

At Haleakala, there was heavy frost on 5 different days, and on the 20th, there was quite an excitement on the Island of Maui, as a light snow fell for the first time this year.

Superintendent's Special Activities

The Superintendent was at headquarters throughout the month. On February 4th, he attended a meeting of the War Finance Committee in Hilo, and during the evening of the 9th, he attended a Boy Scout meeting at

HAWAII NATIONAL PARK
HAWAII

Mt. View, Hawaii.

Selective Service Board meetings were attended throughout the month at Local Board No. 1, Olaa, Hawaii, and on the 23rd, he attended a Selective Service Conference which was held in Hilo.

He met Lt. David Canfield in Hilo on the 4th, escorted him to points of interest in the Park and took him to the airport in Hilo on the 5th.

He spent considerable time studying the martial law situation in the Territory because of its affect on park protection and operations. A memorandum covering the results of this study was prepared for the Service and forwarded on the 23rd.

Because of pressure of park work he resigned on February 4 as a member of O.P.A. Rationing Board No. 11, Hilo.

Interpretation

One lecture, and showing of the Mauna Loa 1942 eruption pictures was given at Lahaina Maui, to the West Maui Lions Club by the Ranger-In-Charge Haleakala Section, to a total of 60 members and guests.

Research and Observation

Despite the fact that the 4 perceptible earthquakes that occurred during February were of Kilauea origin, more seismic disturbances were recorded at Mauna Loa than at Kilauea, or 41 and 33 respectively. The strongest of the perceptible shakes occurred at 5:53 a.m. February 29, with indicated origin nearly under the Park headquarters.

Clouds, lacking the characteristics of ordinary cumulus formation that frequently develop over isolated mountain peaks, were observed over Mokuaweoweo during the late afternoon of February 7. On February 23, a white steam cloud was visible above the radiation fog which capped Mauna Loa from 8:05 to 8:30 a.m.

The majority of the cracks around Halemaumau showed a slight opening while those along the Chain of Craters Road and at Devil's Throat were stationary.

A trip was made, by the Asst. to the Superintendent, to the McCandless Ranch in Kona in company with Dr. and Mrs. Chester Wentworth, Geologist from Honolulu, from February 29 to March 4. One day was spent in a Forest Reserve from 4,500 to 5,000 feet looking for birds. Those seen were the alala, (Hawaiian Crow), iwi, apapane, elepaio, and amakihi, as well as a few hill robins.

Questions were asked of those more or less familiar with the Alala to find out if any local prejudice existed against the bird on the ground of its being harmful to truck gardening or a nuisance in any other way. Those he asked knew of nothing to discredit the bird. The thought Mr. Baldwin had in

mind was the re-introduction of the alala into the lower Mauna Loa slopes, as he has proof that it lived and nested there up till the early 1900's.

On the 21st a nene was reported seen by Ranger Medeiros at the 8,000 foot elevation on the Mauna Loa trail.

Rangers Medeiros and Kauhi reported snow from 2 to 6 feet in depth above 12,000 feet on Mauna Loa on the 22nd.

Forest Protection

At Kilauea one goat drive was held on February 13, Fifteen goats were caught or killed. A total of 42 goats were eliminated during the month, while 7 pigs were destroyed. At Haleakala a total of 33 goats were killed.

Patrols were made during the month and the Mauna Loa rest houses were visited and the water tank at the summit house repaired.

In the Haleakala section, one of the largest Aalii trees in the Park was up-rooted in a recent wind storm. This tree was located between the upper two tanks of the three tank water storage system. Great care had been taken when the tanks were installed to save this tree but some of the soil around the roots was of necessity removed and possibly some of the roots cut in order to make room for a #2 tank. Evidently this weakening of the root system caused the loss of this lovely specimen. The tree was about 10 inches in diameter and probably several hundred years old.

Police Protection

The impromptu functioning of our protection organization was tested when an emergency threatened at Makaopuhi Crater on the evening of February 16. A note was found during the day at the lookout saying a party of sailors was down in the crater, but giving no dates. One of our Rangers checked at 6:00 p.m. and found that the party had not returned. At around 7:00 p.m. two Rangers went down to the crater prepared to ascertain whether there were any difficulties or not. At around 7:30 the sailors came out of the crater in good shape. Meanwhile Coast Guard officers had phoned requesting information and a search.

Fire Protection

Arrangements have been made with the Officer in Charge at the Kilauea Military Camp for their fire truck to participate in all fire calls, drills, and otherwise.

The Quarterly Fire Inspection report was submitted and plans were started for a forest fire suppression training program to be carried out in readiness for the next dry season.

The last week in February was designated clean-up week, in order to re-

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duce fire hazards.

Cooperating Government Agencies

Because of the radio installations in the observation station at the Haleakala summit, the Commanding General of the Maui District issued an order that this public park building would be closed to the public. No notice was given the park by the Military authorities. As soon as a complaint was made, the matter was cleared up by the General. The Ranger reports that the Air Warning Service is planning to move their equipment out of the park service building in a month or so, and therefore they were allowed to leave it there for that length of time and the public will not be deprived the use of the building. The ranger-in-charge states that word has been received by the Air Warning Service unit on Maui that they are to close their Hailuku Information Center and all men will move up to the camp at Puu Haniua in the Park. This will entail more barracks and possibly more water storage tanks. He submitted a complete report on this matter to the superintendent who is taking it up with the army.

Colonel Parry K. Smoot resigned as Territorial Director, Selective Service System and temporarily he has been succeeded by Lt. Col. E. G. Solomon of General Hornby's staff in Washington.

The office of the Military Governor authorized an increase in the night driving speed limit from 20 to 25 m.p.h. and also extended the fishing limits along the Kona coast of Hawaii to 10 miles off shore.

In a talk with the superintendent on the 29th, the Territorial Commissioner of Public Lands stated that he had commenced negotiations for the acquisition of the land of Kupoona, 10,480 acres, in the Kalapana addition. On the basis of figures given in the report of the board of appraisers, it appears possible that the entire remaining private land in the addition, including Kupoona, may be acquired with but a few thousand dollars more than the legislature appropriated for the purchase of this one piece.

Travel

At Kilauea, civilian visitors were estimated to total 8,175 and military visitors 9,738 compared with 12,972 and 14,040 for February 1943.

At Haleakala visitors were estimated to total 2,065 for the month of February, including 1,705 in the armed forces. For the same month last year there were 225 civilian visitors and 400 military visitors.

Civilian visitors were more numerous in this section of the park during February because of the snow. The military figures increased because of the large number of marines on the island.

Visitors

Dr. and Mrs. Chester K. Wentworth, Board of Water Supply, Honolulu, were here throughout the month. Dr. Wentworth was very helpful in assisting the

HAWAII NATIONAL PARK
HAWAII

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volcanologist and Dr. Omer, G.P.S. assignee, on his magnetic studies.

Lt. Daniel S. Turner, U.S.N. former naturalist and ranger at Yellowstone and Grand Teton visited the Haleakala Section when his ship docked at Kahului, Maui, for a brief stay.

The Commissioner of Public Lands, Lester A. Marks and wife, arrived for a few days visit at Kilauea on the 29th. He conferred with the superintendent on the recently completed report of the board of appraisers for the Kalapana addition lands.

Miscellaneous.

Hawaii's Sugar production in 1943 will amount to 890,000 tons, according to estimates made by an official in the industry.

The formation of a Hawaii medical plague commission which will supervise and study the medical aspects of plague control on the Island of Hawaii was recommended. It was also recommended that persons living in the stricken area be encouraged to be vaccinated against plague by a vaccine similar to that prepared by the Hooper Foundation which is used by the U.S. Army and U.S. Public Health Service for their personnel stationed in plague areas. Bubonic plague is causing much concern because of its increase on the northeast coast of Hawaii.

Island grown produce will be systematically channelled directly to the consumers whose need for them is greatest at the time, as a result of a Hawaii defense act rule issued by Governor Steinback which takes effect on March 15th. The Governor's order makes effective a cooperative agreement between the governor and the high command of the Army and Navy giving the territorial office of food production complete authority over the inter-island distribution of Hawaiian grown produce. This control is designed best to serve war purposes throughout the territory and further the Governor's efforts to distribute equitably island grown fruits and vegetables. It contemplates making Hawaii as nearly self-sustaining as practicable.

A book, "Birds of Hawaii", by George Murro, Associate in Ornithology, Bernice P. Bishop Museum, was placed on sale during the month.

Labor on two plantations and the Hawaii Consolidated Railway was reported organized by C.I.O. representatives.

Edward G. Wingate,
Superintendent

a.n) - Regional Director.

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HONOLULU

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

March 13, 1944

MEMORANDUM for the Superintendent:

The monthly report of activities of the Assistant to the Superintendent and the Ranger Division is submitted:

Police Protection

The impromptu functioning of our protection organization was tested when an emergency threatened at Makaopuhi Crater on the evening of February 16. A note was found during the day at the lookout saying a party of sailors was down in the crater but giving no dates. Ranger Kauhi checked at around 6:00 p.m. and found that the party had not returned. At around 7:00 the two Rangers went down to the crater prepared to ascertain whether there were any difficulties or not, while the undersigned called the NAS to find out when the party left. Mitchell and Omer were dispatched to service the Makaopuhi-K.M.C. telephone line. Around 7:30 the sailors came out of the crater in good shape.

An attempt was made to locate an army outfit responsible for artillery-like noises on Saturday afternoon, February 19, without success.

Fire Protection

Fire alarm instructions were re-issued and posted in all quarters and cooperating phone stations.

Arrangements were made with Colonel Flemings for the K.M.C. fire truck to participate in all fire calls, drills and otherwise. On February 7 and 9, the K.M.C. truck was called over in order to test out the possibilities of its hooking up to our several kinds of fire hydrants and to acquaint the crew with the park situation. The small size of our pipe lines limit the amount of water that can be played when both our truck and the K.M.C. truck are playing at the same time. With the park truck using 1½" intake and outlet hose and the army truck using 2½" intake and outlet, both systems could be operated at 30 pounds outlet pressure. Alone the K.M.C. truck could get up to 50 pounds, while our truck with its smaller hose can eject water at a considerably higher pressure (for a short time). It was found that our park

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stationary pump developed 20 pounds pressure as measured at the intake on the K.H.C. truck.

On February 7, a surprise fire drill was held with one of the park women turning in the alarm. On February 24, a drill was held for the Volcano House employees, with twelve attending.

The Quarterly Fire Inspection report for January was submitted. Plans were started for a forest fire suppression training program to be carried out in readiness for the next dry season.

The last week in February was designated clean-up week, in order to reduce fire hazards.

Forest Protection

One goat drive was held on February 13. Fifteen goats were caught or killed. A total of 42 goats were eliminated during the month, while 7 pigs were destroyed.

The goat proof fence between Shipman's ranch and the park in upper Ohaieka was repaired. Sumner's men did some work on the fence from 6-tanks down, but it is still not cattle proof.

Patrols were made to Hilina Pali, Fire Kipuka, Bird Park, and Kama-kaia Hills. The Mauna Loa rest houses were visited and the water tank at the summit house repaired and filled with snow.

Travel

Travel counts were made on the 17th and 18th. Travel is still dropping lower.

Signs, grounds, phones

A few signs were repainted and re-installed.

All park quarters were inspected and a report with recommendations for work to be done was submitted to the Superintendent.

The Volcanologist's phone was replaced, as it developed a faulty transmitter. This should be repaired. Batteries were replaced at the Forestry cottage phone. Line 10 poles were re-set after being broken by winds. Work was started on a telephone code repeater for the switchboard to amplify the rings so they can be heard without fail by the operator.

Natural History

Several bird censuses were taken.

A trip was made to the McCandless Ranch in company with Dr. and Mrs.

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Wentworth and A. Lester Marks from February 29 to March 4. One day was spent in the Honaunau Forest Reserve from 4,500 to 5,000 feet looking for birds. Those seen were the alala (Hawaiian crow), iwi, apapane, elepaio, and amakihi, as well as a few hill robins. On another day a trip was made from Hapuu Camp to Lumiawai waterhole. The same birds were seen plus a few house finches and whiteeyes. An unusual flock of about 400 kolea flushed from the pasture at Keanapaakai. Alala occurred all the way over to Lumiawai, and one old nest in a pukiaue bush was seen near Kamakawai waterholes. None records for the country higher up were obtained from Joe Gans and Wm Thompson.

I asked questions of those more or less familiar with the alala to find out if any local prejudice existed against the bird on the ground of its being harmful to truck gardening or a nuisance in any other way. Those I asked knew of nothing to discredit the bird. The thought I had in mind was the re-introduction of the alala into the Bird Park - Kipuka Kulalio area, as we have excellent proof that it lived and nested there up till the early 1900's (Henshaw, 1902, and D. Paris to Baldwin in conversation).

Administrative work

Many administrative details were tended to by the Assistant to the Superintendent, including correspondence, reports, and supervision of Ranger work. It was noticed that there has been some carelessness in turning in accurate drivers reports during the past month or two, and steps are being taken to have this rectified.

Paul H. Baldwin

Paul H. Baldwin,
Asst. to the Superintendent

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

March 1, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Supt.)

Subject: Report of Activities for the Month of February, 1944.

From February 21 to 23, a patrol and inspection tour was made of the Mauna Loa section. On this tour, I was accompanied by Ranger Kauhi. The telephone lines and rest houses were checked upon. The two buildings were cleaned and some minor repairs were performed on equipment. The water tank at the summit was put in order and filled with snow.

At about 8,000 ft. elevation, a nene and 1 goat were seen. During this trip, a few items were found to be in need of repair and a few items to be installed in both of the rest houses and the telephone line between the 1,000 elevation and the summit. A report to this effect is already on file.

Some time was spent on a goat drive in the Mauna Loa section, and a goat control drive was made in the Hilina and Ohiu sections. On this trip I was accompanied by two army officers. A pig control drive was also performed. On the goat drive, six goats were corralled, nine goats were destroyed on the goat control, and two pigs on the pig control.

A new gate was built and installed at the fence line of the horse paddock.

Two travel counts were performed at the Hilo Entrance.

Some fence repair work was done along the Kipuka Kikaki, Park, and Shipman boundary. A patrol was made covering the Kipuka Ki, Fire Kipuka, and bird park area.

Some time was spent shoeing park horses and a little time was spent on office work.

Considerable time was spent on sign painting and a few were installed.

A. B. Medeiros
A. B. Medeiros,
Ranger

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

March 13, 1944

MEMORANDUM for the Superintendent
(Through the Asst. to the Superintendent)

Subject: Report for the Month of February, 1944

During the month the fire and sanitation report was completed. Some time was spent on telephones and checking lines around Kipuka Ki and Ohaieka section. A considerable amount of time was spent on pig and goat control. Two days were spent taking travel counts at the Hilo Entrance. Two more days were spent on rain gauge work along with Red Mitchell. I spent three days on a trip to Mauna Loa, and on one day attended a fire drill at the Volcano House. The rest of the days were spent on sign work with Ranger Medeiros at the paint shop.

17 goats

2 pigs

Thompson Kauhi
Thompson Kauhi,
Ranger

Volcker for monthly Report File Use for Report
eye

WORK REPORT

December, 1943; January and February, 1944

A.L.Mitchell

Three days each week were spent doing Park maintenance work under the direction of Mr. Waltjen. This work included road repairing, telephone maintenance, cutting and hauling wood for heating purposes, and the reconditioning of two houses (Park quarters 21 and 22). Work was begun on landscaping with native vegetation the small area in front of the Volcano House.

Three days each week were spent doing botanical work: the compilation of data for a check list of the plants of the Park; and the preparation of plants for the Park herbarium.

I helped in the two Sunday goat drives on Mauna Loa.

Also I continued to read the rain gauges twice a month. We have a years record on these six rain gauges (1. Cone Peaks, 2. Mauna Iki, 3. Kamakaia Hills, 4. Hilina Pali, 5. Puu Ohale, 6. Devils Throat); yet we expect to continue these recordings at these stations until the rainfall approaches last year's average.

3/11/44
PHB

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

HAWAII

Wailuku Maui
March 9, 1944

Memorandum to the Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report of the Haleakala Section for the month of February is respectfully submitted;

Introduction

The weather has taken a turn and ended the long dry spell. Almost daily rains of small amounts have given the vegetation a soaking that is already beginning to turn things green again. Snow fell for the first time this year at the summit causing a great deal of excitement on the island. Although only one real fall of snow took place the local paper has reported several snows. Even after calling up the Ranger Station to verify their reports of snow the paper went ahead and published every heavy frost visible from Wailuku as a fall of snow covering the summit. Many of the residents here do not know the difference between frost and snow even after they see the two on the ground.

General weather conditions in the park

Haleakala Summit:

Max. Temp.-----69 degrees on the 1st.
Min. Temp.-----32 degrees on the 22nd.
Rainfall total-----1.29 inches falling on 17 different days.
Clear days-----11
Partly cloudy days-----9
Cloudy days-----9

Haleakala Summit:

Rainfall total 3.43 inches.

General weather conditions in approaches to the park.

Although the rains were light in the park the cattle ranches and truck farms of the Kula district received good rains thus relieving the serious condition of last month. The dry south side of this end of the island received a good soaking.

Maintenance

Heavy frosts from 7000 ft. up again caused considerable trouble with the rocks along the banks of the cuts in the road to the summit. Several entire days were spent in removing these rocks.

Improvements

Work was started on the new telephone line. That section of the line running from the cable junction box along the road between 9,000 and 10,000 ft. and down the cliffs to the crater floor was completed this month.

Cooperating government agencies

Because of the radio installations in the observation station at the summit the Commanding General of the Maui District issued an order that our public building would be closed to the public. No notice was given this section of the park by the military authorities. As soon as a complaint was made the matter was cleared up by the General. Since the Air Warning Service is going to move their equipment out to the park service building anyway in a month or so they were allowed to leave it there for that length of time and the public will not be deprived the use of the building.

Word has been received by the Air Warning Service unit here on Maui that they are to close their Wailuku Information Center and all men will move up to the camp at Puu Nianiau in the park. This will entail more barracks and possibly more water storage tanks. I have assured the Captain in charge here that no more concrete tanks are to be built in the park and that they cannot depend on us for water as no emergency exists now and there are dozens of vacated army camps all over the island that can be used by this outfit as they are not operating their radar at the summit but are going to make a training school out of this camp. I suggested that if more water storage was anticipated that wooden tanks set up on the flat across the road and east of their camp would not only serve their purpose but could be removed without damage to the park.

The Territorial Board of Agriculture and Forestry has appointed me a Fish and Game Warden to serve without pay in order to help stop the pheasant hunting below the park on the road to Kula.

Flora

One of the largest Aalii trees in the park here was uprooted in a recent wind storm. This tree was located between the upper two tanks of the three tank water storage system. Great care had been taken when the tanks were installed to save this tree but some of the soil around the roots was of necessity removed and possibly some of the roots cut in order to make room for #2 tank. Evidently this weakening of the root system caused the loss of this lovely specimen. The tree was about 10 inches in diameter and probably several hundred years old.

Lectures

One lecture and showing of the Mauna Loa 1942 Eruption pictures was given at Lahaina on the last day of the month to the West Maui Lions Club. About 60 members and guests were present.

Increase in travel

Civilian visitors were more numerous this month because of the snow. As anticipated the military figures increased because of the large number of Marines on the island.

Visitors

Former Naturalist and Park Ranger Daniel S. Turner now Lieutenant, junior grade, U. S. N. visited the park when his ship docked at Kahulāi for a brief period. Lt. Turner's last park work was at Yellowstone and Grand Teton National Parks.

Destruction of Predatory Animals

33 goats were killed in the park this month.

Two soldiers who were hiking through the park found a half grown goat that had been separated from its mother. The goat was very lonesome and would come up to the men when they bleated like a goat so one hid and kept bleating and the other one slipped up behind the goat when it became interested and caught it. Since neither soldier had a gun and the incident was reported to me immediately upon arrival at the ranger station the men were allowed to keep the goat for a pet. It was felt that such ingenuity should be rewarded.

Frank A. Hjort
Frank A. Hjort
Ranger in Charge

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

March 10, 1944

MEMORANDUM for the Superintendent:

(Report of the Hawaiian Volcano Observatory for February 1944)

Despite the fact that the 4 perceptible earthquakes that occurred during February were of Kilauea origin, more seismic disturbances were recorded at Mauna Loa than at Kilauea or 41 and 33 respectively. The strongest of the perceptible shakes occurred at 5:53 a.m. February 29, with indicated origin nearly under the Observatory.

Clouds, lacking the characteristics of ordinary cumulus formation that frequently develop over isolated mountain peaks, were observed over Mokuaweoweo during the late afternoon of February 7. On February 23, a white steam cloud was visible above the radiation fog which capped Mauna Loa from 8:05 to 8:30 a.m. At other places humps in the fog marked sites of local hot areas.

The majority of the cracks around Halemaumau showed a slight opening while those along the Chain of Craters Road and at Devil's Throat were stationary.

Tilt for the month was quite uniformly strong to the south.

Some of the data obtained during the month is shown in the following table:

Week ended	Tilt	Seismic disturbances	Seismicity
Feb. 6	Mod. SW	10	9.50
13	Mod. ESE	2	0.75
20	Strong SSE	7	1.75
27	" SSW	12	4.25

Work of R. H. Finch:

The Volcano Letter for October-December 1943 was completed and sent to Army Intelligence for approval. Seismological routine was kept up to date. Several fruitful discussions were had with

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Dr. C. K. Wentworth, Geologist from Honolulu, who was in residence in the vicinity during the month.

Work of G. C. Omer

In addition to assisting in the seismological routine, he continued his work on a magnetic survey of the area. He took advantage of the presence of Dr. Wentworth to improve his technique in field methods and to overhaul the dip needle in use here .

R. H. Finch

R. H. Finch,
Volcanologist

10-23
(May 1929)

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

FILE NO.

MONTHLY REPORT

January 1944

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.

ARNO B. CAMMERER,
Director.

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February 26, 1944

MEMORANDUM for the Directors:

There follows the report of activities for Hawaii National Park for the month of January, 1944:

Introduction

The only event of particular importance to the park and the community was the commencement by the International Longshoremen and Warehousemen's Union of the C.I.O. to actively organize the sugar industry. Considerable feeling for and against such organizing has been expressed but so far, no trouble has flared up. It is obvious that organized labor has now come to Hawaii to stay and the movement will spread.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 66.5° and 48.6° and at the Haleakala Ranger Station these recordings were 70° and 39°. Rainfall at Kilauea totalled 3.44 inches and at the Haleakala ranger station there was no rainfall. This was the driest month on record at Haleakala with 29 clear days and 2 days partly cloudy. It was the 6th successive month at Kilauea with below average rainfall.

Superintendent's Special Activities

The superintendent was at headquarters throughout the month. On January 10, he attended a meeting of the National War Fund committee in Hilo, and on the 29th, he attended the annual Boy Scout luncheon and meeting in Hilo.

Selective Service Board meetings were attended throughout the month at Local Board No. 1, Olaa, Hawaii, and on January 8th and 9th, he attended a Selective Service Conference at Kailua, Kona, Hawaii. Routine inspections were made in the Kilauea area including an annual New Year's Day inspection.

Interpretation

The Assistant to the Superintendent gave 3 lectures outside the Park to a total of 230 persons. In the park he showed the Mauna Loa eruption films at the Volcano House to a total of 40 persons and the same films at the Kilauea Military camp to a total of 60 persons. One

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of the talks given outside the park to the Hilo Rotary Club received much favorable publicity in the local and Honolulu press.

Research & Observation

During January there were more earthquakes on the northeast rift of Mauna Loa than on the southwest one. In November and December, however, the southwest rift was the most active. The number of Mauna Loa shakes exceeded those from Kilauea, or 53 and 39 respectively.

The strongest earthquake during the month which occurred near Pua Ulaula on the NE rift of Mauna Loa on January 23, was generally felt over the southern part of the island of Hawaii. It dismantled the Mauna Loa seismograph and the E-W component at the Observatory. Two slight shakes which originated near the northern rim of Kilauea crater were perceptible in the vicinity of Park headquarters.

Two landslides from the walls of Halemauau were observed during the afternoon of January 19. There was but little movement of the cracks near the rim of Halemauau and along the Chain of Craters Road.

Two nene were seen on three days near the end of the Mauna Loa truck trail. This is the first report for this area in several years.

Forest Protection:

The goat drive program was continued successfully. On January 9, 217 goats were destroyed or removed under contract from the Mauna Loa section. Ranger Kauhi led a goat control party of Naval officers to Kahali on January 31, and destroyed 12 goats.

One pig and one dog was destroyed.

At Haleakala a total of 76 goats were killed.

Police Protection

At Haleakala two Navy fliers were caught hunting in the Park. They had killed one plover when caught. Due to the fact that they were from an aircraft carrier and were due to fly out to sea to land on the carrier on the morning following their apprehension here in the park, they were not made to stay over and go through the provost court but were turned over to their superior officer who was very courteous and helpful during the whole affair. He found out from the provost court how much the fine would have been and made the fliers pay that amount into the welfare fund of the carrier. He also took away the privilege of using the twenty-two rifle from the men. The rifle belonged to the welfare fund, and was taken out by these men without letting the welfare custodian know the purpose for which it was taken.

Maintenance

High winds during the month knocked out the Mauna Loa telephone line

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and it was necessary to replace 15 poles.

Personnel

Demetri Gumbisky entered on duty as laborer in the Haleakala section January 19. He had had experience as guard and laborer at Kilauea during 1942 and 1943.

Concessions

The Maui Grand Hotel concessioner at Haleakala announced in the Maui News that beginning January first, they would be able to take people on saddle-horse trips through the park. Due to the fact that no stock of any kind has been found that they can get for this purpose, no trips have been made as yet.

Cooperating Government Agencies

Governor Stainback on January 5, issued Defense Act Rule 87, creating a post-war planning division under the Territorial Department of Public Works and appointed an advisory committee consisting largely of the county engineers of the various counties.

At Haleakala the ranger-in-charge was able to get a telephone system rigged up connecting all the cabins in the crater to the main line. Materials and labor were furnished by the army upon the request of the Manager of the Maui Telephone Co., who is in charge of defense communications on that island. Field wire was used.

Colonel H. LeR. Muller, succeeded Brigadier General Herbert D. Gibson, in Command of the Hawaii District. General Gibson left late in December for an unannounced post. Colonel Muller has made two public talks since taking command and both addresses have been well received. He pointed out that he expected no let up by the civilian population because our advance lines have been pushed westward in the Pacific.

The ban on blackout lights has been lifted considerably, when a recent military order stated that motorists could remove all paint below the shields, on their automobile headlights.

Fire Protection

A fire originating from a pan of deep fat on an electric range caused considerable damage to the kitchen in Quarters 22. Sticking of the extinguisher pump permitted the blaze to spread. It was put out by use of another extinguisher. The fire uncovered several defects in our protection system that are being corrected but the most serious one cannot be corrected until the military authorities permit the use of sirens for giving fire alarms as well as air-raid signals. The present method of giving the alarm by telephone signal at best is very unsatisfactory.

Two fire drills for park and hotel employees were held during the month and the quarterly fire and sanitation inspection was made.

Travel

At Kilauea civilian visitors were estimated to total 8,495 and

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military visitors 12,927 compared with 12,972 and 14,040 for January 1943. The decrease in military use is probably due to the departure of several units for other scenes of activity.

At Haleakala visitors were estimated to total 1,460 for the month of January including 1,235 in the armed forces. For the same month last year, there were no civilian visitors and about 635 military visitors.

Visitors

Governor and Mrs. Ingram M. Stainback were registered at the Volcano House, January 28-30th. Also at the Volcano House were former Governor and Mrs. Frear.

Miscellaneous

The University of Hawaii Extension Service reports that truck crop acreage on the Big Island is now 25% greater than it was in January 1943. In December, 1149 acres were planted to truck crops and 107 acres to field crops, including 50 acres of potatoes. Approximately 575 tons of food crops will be harvested in January, an increase of 53 per cent over the production of January, 1943.

A check for \$70,000 was received on December 30, by the Chairman of the Hawaii Committee of the National War Fund, as the Army's contribution to the community and war chest campaign on all islands.

The ranger-in-charge at Haleakala reports that the cattle ranches bordering on the park are experiencing the most severe shortage of water in 46 years due to the protracted drought. In addition they have suffered the loss of large sections of land taken over by military authorities for a practice range. The local market has been flooded with beef that had to be slaughtered in order to reduce the herds.

Edward G. Wingate,
Superintendent

Orig. & 4 - Director
c.c. - Regional Director
c.c. - Files

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

February 18, 1944

MEMORANDUM for the Superintendent

The monthly report for January 1944 on activities of the Ranger Division and Assistant to Superintendent follows:

Police Protection

A reprimand was given F. Victorino for parking at the Volcano House porch.

Patrols were made as follows:

1. Hilina Pali inspection - January 17 (Baldwin)
2. Crater Rim road - January 5 (Baldwin with Wingate)
3. K. Puau, K.Ki, and Fire kipuka - Jan. 29 (Medeiros & Kauhi)

On this patrol cattle were discovered in K. Ki and reported. The cattle were removed a week or so later by Sumner.

4. Headquarters and residential area night patrol - January 31, (Baldwin)

5. 10,000 ft. rest house - January 11 (Kauhi) to investigate broken food locker.

Fire Protection

The quarterly fire and sanitation was made during January, as reported on separately.

A fire occurred on January 19 at Quarters #22.

A fire drill was held on January 31 at 8:00 p.m. and one for the Volcano House staff only on January 28.

The Fire Atlas report for 1943 was submitted.

Forest Protection

The goat drive program was continued successfully. On January

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9, 217 goats were destroyed or removed from the Mauna Loa section. Ranger Kauhi led a goat control party of Naval officers to Kahalii on January 31 and destroyed 12 goats.

One pig was destroyed and one dog was destroyed.

The annual forestry report was submitted.

Travel

Travel counts were taken on January 25 and 27.

Interpretation

The Assistant to the Superintendent gave the following talks:

Bird talk to scouts at Hale o Aloha,	Jan. 22,	25 persons
" " " school " Olaa	" 27,	160 "
Speech on park to Rotary Club,	Jan. 21,	to 45 persons
Eruption movies at Volcano House,	Jan. 13,	to 40 persons
" " " K.M.C.,	Jan. 19,	to 60 persons

Total contacts: 330 persons

Trails, communication, etc.

Sign painting eas continued.

Ohia lehua growth was cleared from the stone retaining wall on the Crater Rim road just below the Lava tube.

The Mauna Loa telephone line was repaired after 15 poles were blown over in a high wind. Two switch boxes were installed and one phone box repaired.

The Hilina Pali water tank was cleaned and found in need of repairs. A number of posts for the corral fence were obtained from cut timber at the CCC camp.

A new gate for the main park corral was built and installed.

Wildlife

2 nene were seen on three days just above or below the end of the Mauna Loa truck trail this month.

A letter was received from Alexander Wetmore in which he verified identification of the red phalarope found dead on Mauna Loa by Medeiros.

Census work was curtailed in January for lack of time.

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Administrative

Many administrative details were attended to during the month including reports and communications to the Director, Editor of Audubon Magazine, Mr. Jess, Mr. Hjort, and others. Conferences were attended locally with the Superintendent, Mr. Hatayama, Mr. Lycurgus, Col. Flemings and Mr. Finch.

Elmer Aldrich, U.S.N., former ranger naturalist at Crater Lake was entertained.

The banquet at the Kilauea Military Camp attended by Governor Stainback and Colonel Muller was enjoyed.

Paul H. Baldwin
Paul H. Baldwin,
Asst. to Superintendent

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

February 3, 1944

MEMORANDUM for the Superintendent
(Through the Asst. Superintendent)

Subject: Report for the Month of January, 1944.

Communication

Above the six tanks water shed, 15 telephone poles were installed while on line 10, a box was installed for the switch on the horse corral line and another was replaced near the Observatory building.

Wildlife

On January the 5,7, and 8, I shod horses and mules and did some fence line work. On the 9th I participated in a goat drive and destroyed nine goats by gun fire.

Special Detail

On January the 10th, I returned five horses to the park corral, on the 11th made a trip to the 10,000 ft. rest house and back, and on the 12,13,14 and 17th, worked on the Quarterly fire and Sanitation inspection. On the 18th and 19th, I worked on the Hilina Pali rest house, and on the 20 and 21 looked for poles at the CCC camp and then returned to make a general inspection of extinguishers in the utility area. On January 24, more poles were hauled to the wood shed. From the 25 to 27, travel count was taken at the Hilo Entrance part of the day with the remainder of the days being spent in the carpenter shop. On January 28, I continued work in the carpenter shop and later attended a fire drill held at the Volcano house. On the 29th, I helped Ranger Medeiros on sign work.

On January 31, I took five Army Air Corps officers on a goat control trip in the Kahalii area. During this trip 12 goats were destroyed.


Thompson Kauhi,
Ranger

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

February 2, 1944

MEMORANDUM for the Superintendent

(Through the Asst. Superintendent)

Subject: A Report of Activities for the Month of January, 1944.

On January 9, a goat drive was held in the Mauna Loa section. During this drive, 201 goats were corralled, and 16 were destroyed by fire arms. The drive was made by the park staff and about 20 outside men.

A pig control drive was also performed on January 1, around the Aloi section. 1 male pig was destroyed. Two travel counts were taken at the Hilo Entrance.

Some time was spent repairing a telephone line at Ohikea. 15 poles were put up using the old poles and 3 new poles were replaced. Men from the maintenance department were used on this job.

The hog proof wire around the horse stable corral was replaced with ordinary fence wire. Young Ohia trees which were growing alongside the stone wall on the Chain of Craters road across from the lava tubes were dug out.

Some time was spent shoeing park horses for the goat drive, and checking, at the end of the Mauna Loa truck trail, on goats taken away from the corral by Louis De Leon.

Office duty and patrol work was done and time was spent on sign painting and on the Hilina pali water tank.

A fire and sanitation inspection was made at which time fire extinguishers were checked and refilled.

Considerable time was spent cutting and hauling posts from trees which had been cut down around the utility area, the CCC camp and the old summer camp. These are to be used on the Hilina pali horse corral fence.

A new gate was built and installed at the horse paddock fence. Also, the door on the telephone box at Hilina pali road junction was repaired.

On January 29 I was accompanied by Ranger Kauhi on a check of the

Kipuka Ohaina, Fire Kipuka and Kipuka Ki sections of the park. While on this inspection tour, we noticed that about 10 or 12 head of cattle were in the Kipuka Ki area. Considerable damage was found, and the cattle were identified as belonging to the Kapapala Ranch. A report was made on this to the Asst. to the Superintendent.

A. B. Medeiros
A. B. Medeiros,
Ranger

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Haleakala Sec.
HAWAII NATIONAL PARK
HAWAII



Wailuku Maui
Jan. 31, 1944

Memorandum to Superintendent Edward G. Wingate through the office of the Assistant Superintendent Paul H. Baldwin:

The following narrative report for the month of January, 1944 is respectfully submitted;

000 General 010 Introduction

This has been a very dry month. The cattle ranches bordering on the park are the hardest hit for water they have been in forty-six years according to an article appearing in the Maui News this month. Besides having the dry weather to contend with two of the ranches have just had a large section of land taken from them by the military authorities for an amphibious practice range. The local market is flooded with beef that has had to be slaughtered in order to reduce the herds.

020 General weather conditions 021 In the park

This is the driest month on record at the Ranger Station. No rain fell during the month and there were only two partly cloudy days during the month, the rest all being clear. The two days that were partly cloudy were so recorded because of high clouds that brought no relief in the form of fog or dew.

Max. temp.-----70 degrees on the fifth
Min. temp.-----39 degrees on the twenty-sixth, thirtieth and thirty-first
Rainfall total-----None
Clear days-----29
Partly Cloudy days-----2
Cloudy days-----None

At the summit the rainfall total was also none.

100 Administration 140 Labor situation

The arrival of laborer Demetri Gambsky this month has relieved the labor situation and made it possible for someone to be in the park most of the time.

200 Maintenance, Improvement and New Construction 210 Maintenance

Due to heavy frosts above 8000 ft. it has been necessary to remove the fallen dirt and rocks from the road several times. The frosts have not been so damaging to the road this year because of a lack of moisture in the soil.

300 Activities of other agencies in the park 310 Public Service Contractors
Character of service rendered the public/

The Maui Grand Hotel announced in the Maui News that beginning this January first they would be able to take people on saddle-horse trips thru the park. Due to the fact that no stock of any kind has been found that they can get for this purpose no trips have been made as yet.

350 Donations and accessions of all kinds

Recently four Boy Scouts were in the crater enjoying a weekend at Kapalaoa Cabin. One of the scout's father wished to contact him as there seemed to be some misunderstanding as to the time the lad was to have come out of the crater. I telephoned the boy and relayed the message to the satisfaction of Father and the disgust of the scout at being disturbed in a place he thought free of all communication. It so happened that the father involved was Mr. Morris who is manager of the Maui Telephone Co. and head of all communications for the defence of this island. Mr. Morris thought it a wonderful thing that we had a phone into the crater and expressed the belief that there should be one in each cabin. I assured him that I felt the same way but that the National Park Service could not at this time afford the materials to do the job, whereupon Mr. Morris did a little investigating and found out that the Army is under obligation to furnish communications into any region of Maui where soldiers may at any time be located for recreation or other purposes. The outcome of it all was that five miles of good field wire has been sent up to the Ranger Station and five more is coming, plus enough phones, tape, connectors, tools and equipment to do the job. All help needed to install the system will be available also. This should fix up our much needed crater telephone system for the duration and until such time as a permanent one can be installed.

600 Protection 610 Police Protection

Two Navy fliers were caught hunting in the park this month. They had killed one plover when caught. Due to the fact that they were from an aircraft carrier and were due to fly out to sea to land on the carrier on the morning following their apprehension here in the park they were not made to stay over and go through the provost court but were turned over to their superior officer for punishment. Their superior officer was very courteous and helpful during the whole affair. He found out from the provost court how much the fine would have been and made the fliers pay that amount into the welfare fund of the carrier. He also took away the privilege of using the twenty-two rifle from the men. The rifle belonged to the welfare fund, and was taken out by these two men without letting the welfare custodian know the purpose for which it was taken.

Destruction of predatory animals (640)

Seventy-six goats were killed in the park this month.

On one trip taken by Demetri Gamsky fourteen nannies were killed and only one billy. Twice on this trip a billy goat was aimed at and a nannie killed. Gamsky said that nearly all of the nannies were about to have kids, all of them two or more each.

The goats as on previous occasions are coming in the park from the south rim due to the dry weather there.

Frank A. Hjort

Frank A. Hjort
Ranger in Charge

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

February 10, 1944

MEMORANDUM for the Superintendent

Report of the Hawaiian Volcano Observatory for January, 1944

During January there were more earthquakes on the northeast rift of Mauna Loa than on the southwest one. In November and December, however, the southwest rift was the most active. The number of Mauna Loa shakes exceeded those from Kilauea, or 53 and 39 respectively.

The strongest earthquake during the month which occurred near Puu Ulaula on the NE rift of Mauna Loa on January 23, was generally felt over the southern part of the island of Hawaii. It dismantled the Mauna Loa seismograph and the E-W component at the Observatory. Two slight shakes which originated near the northern rim of Kilauea crater were perceptible in the vicinity of Park headquarters.

At 2:00 p.m. on January 15, while on the road between Mauna Loa and Mauna Kea, A. L. Jess observed a distinct fume cloud with a faint yellow tinge over Mokuaweoweo.

Two landslides from the walls of Halemaumau were observed during the afternoon of January 19. Some more were observed during the latter part of the same week.

There was but little movement of the cracks near the rim of Halemaumau and along the Chain of Craters Road.

Tilt for the month was moderate to the SSW.

The following table shows some of the data obtained during the month:

Week ended	Tilt	Seismic disturbances	Seismicity
Jan. 2	Mod. ENE	4	1.00
9	Slight N	15	8.00
16	Mod. SW	11	3.25
23	Slight W	6	6.25
30	Mod. S	4	1.25

Work of R. H. Finch:

Routine seismograph operation and seismogram reading took up most of the month. Some clocks were overhauled. Several hours were spent on material for the Volcano Letter. A considerable portion of two days was spent on a Civil Service form.

Work of G. C. Omer

During the time he spent at the Observatory he was busy at magnetic measurements, assisting in seismograph routine, and cleaning and overhauling driving clocks.

R. H. Finch
R. H. Finch,
Volcanologist