

10-23
(May 1929)

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

FILE NO.

Superintendent's Narrative Report for

~~December~~ 1947

1946-1947

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file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge.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

January 12, 1948.

Summary of December 1947 5-page Narrative Report for
Hawaii National Park

Weather Conditions, p.1.- Precipitation at Kilauea 12.09" and at Haleakala 10.57". Maximum and minimum temperatures at Kilauea 71° and 41°. At Haleakala 71° and 31°.

Special Activities, p.1.- Superintendent leaves December 17 for two months stay on mainland. Assistant to Superintendent was in Honolulu Dec. 2 to 5 attempting to secure from WAA and other Governmental agencies various pieces of equipment for Region Four Office and other parks in Region Four. Not too successful.

Interpretation, Research & Observation, p.2.- Kilauea seismographs recorded but 16 earthquakes while Mauna Loa instrument recorded 43. Five of the shakes were perceptible. The preponderance of Mauna Loa shakes, together with a distinct easterly tilt, during the month may be taken as signs of slight uneasiness under Mauna Loa. History and the scattered earthquakes give some indications that the next eruption of Mauna Loa will be at the summit. Annual meeting of Territorial Association of Plantation Physicians was held in the park Dec. 4-6 and the Naturalist department took them on a trip around the park and gave movies in the theatre of the last eruption.

Inspections, p.3.- December 4 to 7 Superintendent accompanied ERA Highway Engineer Frank R. Carlson on a complete road inspection. Approach road problems were discussed and field inspections made to determine the possibilities for realigning the Hilo approach road and re-routing the Mamalahoe Highway to exclude that road from the park, on which Mr. Carlson is preparing a special report.

Maintenance & Construction, p. 3.- Gutters and roof of Observatory building re-connected to park's water collecting system. Collection system is now complete. Water meters installed at Volcano House.

Ranger Service, p.3.- General overhaul of telephone system made and many faults corrected. Sixteen new signs erected in Kilauea, bringing total new signs for Kilauea Section to 82.

Travel, p.4.- 25,296 visitors to Kilauea section; 2,168 to Haleakala.

Wildlife, p.4.- Goat drives and other control measures brought the number of goats destroyed for the month to 307.

Surplus Property, p.4.- Acting Supt. Moomaw in compliance with a teletype received from Director's Office went to Honolulu on the 18th to inspect and procure a Sea Sledge desired for Everglades National Park. On inspection, the sledge was acquired as it was found to be in first-class shape.

Personnel, p.4.- Volcano Observatory and personnel to be transferred to the U.S. Geological Survey.

Christmas Activities, p.5.- Annual Christmas party held for the children

Visitors, p.5.- As listed

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
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January 12, 1948.

MEMORANDUM for the Director.

Following is report of activities in Hawaii National Park for the month of December, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 71° and 41°. At Haleakala ranger station these recordings were 71° and 31°. Total rainfall at Kilauea was 12.09" and at Haleakala 10.57".

Snow started falling heavily on Mauna Loa and Mauna Kea on the 9th and extended unusually far down their slopes, lasting throughout the month and affording added pleasure to visitors.

Special and General Activities

The Superintendent was on duty in the park until December 16 when he departed for Honolulu en route to the mainland for temporary duty and annual leave. While in Honolulu he conferred with Territorial and Public Roads Administration officials on mutual problems. Accompanied by Mrs. Oberhansley, he sailed for San Francisco via Navy transport from Honolulu December 17. The first part of the month was devoted to outlining arrangements for the carrying on of the various phases of the work program during his absence and collecting and accumulating papers and data regarding subjects he wished to take up while in the Regional Office.

Special activities of the Assistant to the Superintendent prior to the Superintendent's departure are high-lighted as follows:

He was in Honolulu from the 2nd to 5th to inspect and attempt to secure from War Assets Administration and other Governmental Agencies various pieces of equipment for Region Four Office and other parks in Region Four. This trip was not too successful due to the withdrawal of vast quantities of this desired equipment for use by military agencies throughout the Orient and Pacific.

During this trip it was discovered that the armed forces declared material "Excess" and "Surplus" at the same time. The result is that military priorities are coming in just after the publication of the sales circulars and when a buyer arrives at the various storage areas for inspection he finds that this material has been withdrawn, if not actually shipped to the priority claimants.

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Interpretation, Research & Observation

December was the third consecutive month with but few earthquakes of Kilauea origin. The Kilauea seismographs recorded but 16 shakes while the Mauna Loa instrument recorded 43, or a more usual number. Five of the earthquakes were perceptible. One of these originated deep under Kilauea and four had shallow origins under various portions of Mauna Loa. The preponderance of Mauna Loa shakes, together with a distinct easterly tilt, during the month may be taken as signs of slight uneasiness under Mauna Loa. History and the scattered earthquakes give some indications that the next eruption of Mauna Loa will be at the summit. Tilt during the month was moderate to the east-southeast. There was a slight accumulation of southeast tilt during 1947. There was a large landslide from the SW rim of Halemauau. The measured cracks around Halemauau, however, showed but little or no movement.

The Naturalist staff was on duty throughout the month in the Kilauea section. Inclement weather during part of the month, plus the general reoccupation with Christmas preparations during the early part of December, adversely affected public use of park facilities. This was partly offset by favorable weather during the holiday week.

The annual meeting of the Territorial Association of Plantation Physicians was held in the park from December 4 to 6. The facilities of the Naturalist Division were made available for this meeting and most of the sessions were held in the park auditorium. The group was taken on a tour of the park the morning of the 5th and was shown the kodschrons movies of the 1942 Mauna Loa eruption in the afternoon. The highlight of the meeting was the visit and lecture of Dr. Sterling Bunnell of San Francisco, one of the world's leading hand surgeons, who gave the group a series of lectures on that topic. Dr. Bunnell is a descendant of Dr. L. H. Bunnell, who accompanied the Mariposa Battalion into Yosemite Valley in 1851 and who later wrote the excellent account of their experiences.

Besides the regularly weekly scheduled program, talks and movies were provided for the Maui High School Agricultural students who visited Hawaii the week of December 7; the football team from the Island of Kauai (60 members) on December 20; a 35-man basketball team from Honolulu on December 22. The crew members of the ISP-859 on the Pearl Harbor run to Hilo on their visit to the park December 16 and 30 were taken on a tour of the park and shown the eruption movies.

The Park Naturalist's geological manuscript entitled Explosive Eruptions of Kilauea has been approved by the Director for publication in Pacific Science, where it will appear next October.

Library Activities

A summary of the Librarian's activities for the month of December is as follows: Items accessioned, 227; 98 titles, 23 added copies and 191 added volumes cataloged and classified. Six maps were cataloged. 98 shelf list cards were typed; 1,124 cards were typed and filed in the catalog. Items marked and shelved, 312.

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Inspections

From December 4 to 7 Highway Engineer Frank R. Carlson of Public Roads Administration was in the park and the Superintendent accompanied him on a complete road inspection. Discussion of approach road problems was had and field inspections were made to determine possibilities for realigning the Hilo approach road and re-routing the Mamalahoa Highway to exclude that road from the park, with the exception of a one mile section crossing the Mauna Loa strip. Mr. Carlson is preparing a special report on this proposed road re-location.

Maintenance & Construction

Routine maintenance was performed during the month, such as garbage disposal, office clean up, public toilets and camp grounds maintenance, routine pumping of water, etc.

The gutters and roof of the Volcano Observatory building were re-connected to the park's collecting system the first two weeks of the month, utilizing some spiral 6" weld pipe acquired from WAA and the Navy last spring. Ditches were dug by ditch-digging equipment borrowed from the Territory and various members of the staff turned out in their free time to assist on this job. For the first time since this building has been in use this quarter acre of roof area has been efficiently utilized in the park's water collecting system. Completed connection to collection system from tanks on hill to park reservoir. The collection system is now complete. Water meters were installed at Volcano House.

Ranger Service

One of the major projects for the ranger division this month was the repair and overhaul of the telephone system. Many long over-due faults were corrected. Little by little the system is getting into shape where it will serve the park and public better, as well as being in operation in case of emergency.

Sixteen signs were erected, bringing the total to 82 for Kilauea Section erected since the change to routed signs was made.

No arrests were made during the month.

Cooperating Non-Governmental Agencies

The Mutual Telephone Co. gave valuable assistance with their modern testing equipment in making repairs to our cables.

Approaches to the park.

The Territorial Highway Dept. is now making repairs to the Volcano road. It would be safe to say that the past condition of this road has curtailed travel to the park.

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Travel

At the Kilauea section there were 25,296 visitors. At Haleakala section there were 2,169.

23,214

Wildlife

Two goat drives were held during the month. These drives, plus other control measures, brought the number of goats destroyed to 397 for the month. The lone goat known to the ranger division as "The Black Widow" was killed in Kilauea Iki by Ranger Hartesvaldt. Every one on the park staff has hunted this goat at one time or another. Its removal has eliminated another eye sore to the park. Nine pigs were destroyed or removed from the park during the month.

1,526

Surplus Property

On receipt of a teletype from the Director's Office directing that we pick up a Sea Sledge advertised by the WAA for sale on Oahu, Acting Superintendent Noonan left on first plane for Honolulu to inspect and negotiate for the purchase of this craft for Everglades National Park. On inspecting this sledge at the place where it was stored it was accepted and to date it is believed to be the best piece of surplus equipment ever inspected by the undersigned. Tentative plans were made with the shipping authorities to move this craft to a Gulf port, probably Mobile, on the next available steamer.

Miscellaneous

On the 26th Chief Engineer Maze of C. Brewer & Company called at park headquarters with a request that we furnish him the specifications for construction of Section S-B of the Hamalehoa Highway that was built about 1930. We referred him to the IRA office in Honolulu for this and other specifications, all of which are not immediately available in this office. The reason for this request is that this road has now been in daily use for approximately 20 years and is in much better condition by far, and after having received only a minimum amount of maintenance since its construction, than any other road in the Territory of Hawaii. The plantations are greatly interested in duplicating similar roads for the transportation of sugar on their properties, as nothing built to date by them has withstood the pounding of the 10 to 20-ton trucks for more than about 18 months at a time.

Personnel

Word was received toward the end of the month regarding the transfer of the activities of the Volcano Observatory to the U. S. Geological Survey; together with the personnel now devoting their time and energies to this work, the effective date of the transfer being December 28, 1947.

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Christmas activities

The annual Christmas party for the children was given by the park personnel families in the recreation hall in the old CCC Camp Saturday afternoon, Dec. 20, and it turned out to be a most successful and gala affair. During this party the ladies began planning a pot-luck supper for the park families, which plans were speedily completed and this dinner was given on the evening of the 29 and was one of the nicest family parties ever seen in the park.

During the holidays the Officers Club of Kilauea Military Camp gave several delightful parties, including two dances - an informal one on the 23rd with music furnished by the orchestra from the air-craft carrier U.S. Valley Forge, which was in port for three days, and a formal dance on New Years Eve, to all of which the park personnel were invited by a very handsome gigantic Christmas card, framed in gold with a huge red bow with streamers attached, lettered in Old English by hand, bearing the signature of Colonel Ware, C.O.

Open house was held by several members of the staff during the holidays that were attended by all the park personnel, the officers of EMC and other friends. The weather kept fine throughout.

Visitors

On December 14 Concessioner and Mrs. George L. Hauger and son George, Jr. arrived in the park for a week's visit. They were greeted at dinner with a typical aloha by 40 Park Service personnel.

Dr. Sterling Bunnell, San Francisco, eminent hand surgeon

Mr. & Mrs. George T. Armitage, Honolulu

Mr. & Mrs. E.E. Bodge and daughter Jean for 3 weeks, Honolulu. Mr. Bodge is President of Von-Hamm Young

Benjamin F. Hoomaw, Jr.,
Acting Superintendent.



Mauna Loa gets her first snow cap early in December



Mauna Kea also was covered very far down with heavy snow that lasted throughout the month.



Children of Hawaii National Park singing Christmas carols at annual Christmas party



Some believe in Santa and some apparently don't



Park Warden John Hauanio, Jr. and his family. On this paper they show up white but of course they are native Hawaiians.

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

January 5, 1948

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for December, 1947.

December was the third consecutive month with but few earthquakes of Kilauea origin. The Kilauea seismographs recorded but 16 shakes while the Mauna Loa instrument recorded 43, or a more usual number. Five of the earthquakes were perceptible. One of these originated deep under Kilauea and four had shallow origins under various portions of Mauna Loa. The preponderance of Mauna Loa shakes together with a distinct easterly tilt during the month may be taken as signs of slight uneasiness under Mauna Loa. History and the scattered earthquakes give some indications that the next eruption of Mauna Loa will be at the summit.

Tilt during the month was moderate to the east-southeast. There was a slight accumulation of southeast tilt during 1947.

There was a large landslide from the SW rim of Halemaumau. The measured cracks around Halemaumau, however, showed but little or no movement.

Work of R. H. Finch

In addition to routine seismology which took up most of my time correspondence and looking over material in the library were other projects that took up a large part of available time.

Work of B. J. Loucks

The chief time consuming jobs worked on by the instrument maker during December were: 1- Overhauling of Bosch seismograph; 2- Making adjustable parts for tilt meters; 3- Working on a tractor torque tube for Foreman Quick. He was on leave December 13 to 19 inclusive.

R. H. Finch
Ruy H. Finch,
Volcanologist.

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

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HAWAII NATIONAL PARK

January 1, 1948

Memorandum for the Superintendent:

Subject: Haleakala Section Monthly Report for the Month of December, 1947.

The Acting Ranger-in-Charge is again on the move back to the Kilauea Section, much to his regret.

Weather Conditions.

Due to the heavy frost on the mountain the people of Maui got quite excited about a white Christmas, that did not come. During the middle of the month the temperature dropped to 31 degrees at the Ranger Station and about 28 degrees at the Observation Station. There was one day of real rain, the 18th., when 5.30 inches of rain fell in 24 hours.

Maximum temperature	71 degrees
Minimum temperature	31 degrees
Rainfall total	10.57 inches
Clear days	19
Partly cloudy days	8
Cloudy days	4

Park Visitation.

Visitation was normal through out the month. Actual visitors that registered at the summit were 1000, and the travel count for the month amounted to 2168 people and 535 cars.

Number of animal days in the crater for the month were 62, of which 38 were from the Lodge and 24 were from the Park.

The following people made use of the Crater cabins during the month;

Mr E. Bonsey	Hannah Lou Bonsey	Donald James Martins
Jorden Bayless	Ruth Gilmore	Mr C. M. Sawyer
Capt. Ellis	Tie Baldwin	Wallace Doty
Mr Silva		

Special Activities.

An inspection of this section was made by Chief Ranger Frank Hjort. He spent

two nights in the crater and two nights at the Lodge, thus making a close check of the area.

Mr and Mrs George Mauger and Son George visited the Island and were given a conducted tour of the Park and Island by myself. The weather was perfect and they enjoyed their stay.

Mr Parker from the U.S. Weather Bureau visited the Park to inspect their equipment. He plans to remove all of the weather bureau equipment with in the next four months.

Maintenance.

Laborers spent most of their time on trail maintenance, the rest of their time was spent on road maintenance. Sad to say we had to release 3 of our 4 badly needed laborers due to the shortage of funds.

Ranger time was spent patrolling the area, cleaning the Observation Station and Road, cleaning out water intakes both in and out of the crater, repairing water tank floats, repairing saddles, conducted tour, showing kodachromes, contacting the public at the summit, and goat and pig control work.

Public Service Contractors.

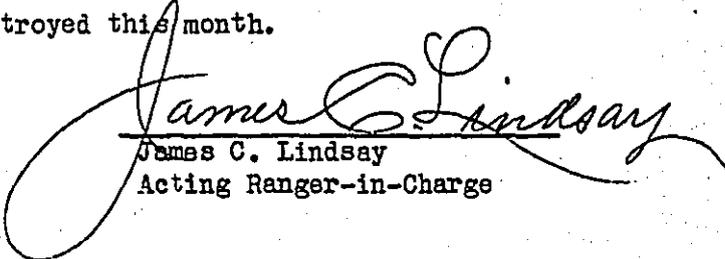
Nothing has been done by the Mountain Lodge to serve the public at the Observation Station at the Summit. The visitors have been asking me when they will be able to buy coffee etc at the top.

Flora.

The Silverswords are now in seed and I believe it would be an excellent idea to plant some in the inclosure near the old Rest house, labeling the plot with the date planted and the date germinated so the public could watch their progress and actually see how long they take to mature.

Destruction of Exotic Animals.

55 goats and 2 pigs were destroyed this month.


James C. Lindsay
Acting Ranger-in-Charge

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

January 7, 1948.

MEMORANDUM to the Acting Superintendent.

Subject: Report of Construction-Maintenance Division
activities during month December, 1947.

Maintenance

Routine maintenance was performed during the month, such as garbage disposal, kerosene delivery, office clean up, public toilets and camp grounds maintenance, routine pumping of water, etc.

Construction

Completed making and installing surge boxes on the Observatory building and connecting them to the collection system.

Completed connection of to collection system from tanks on hill to park reservoir. The collection system is now complete.

Installed water meters at Volcano House and hot water collandrea.

Miscellaneous

Drove the Maugers around the Island on the 19, 20, 21 and 22.

Chlorinated all water tanks except CCC on December 31.

Herbert J. Quick,
Foreman C&M

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

HAWAII

January 7, 1948

MEMORANDUM to the Superintendent.

The following narrative report of the ranger division for the month of December is respectfully submitted:

Weather Conditions Snow on Mauna Loa and Mauna Kea that started falling on the 9th has lasted throughout the month and has added pleasure to the sight-seeing visitors.

Special Activities Warden C. S. McCall too Superintendent and Mrs. Oberhansley to the airport to see them off for the mainland and a well-earned vacation.

Maintenance The major operation for the month has been the repair and overhaul of the telephone system. Many long over-due faults have been corrected. Little by little the system is getting into shape where it will serve the park and public better, as well as being in operation in case of emergency.

Approaches to the park The Territorial Highway Dept. is now making repairs to the Volcano road. It would be safe to say that the past condition of this road has curtailed travel to the park.

Cooperating Non-Governmental Agencies The Mutual Telephone Company has given valuable assistance with their modern testing equipment in making repairs to our cables.

Feral Goat & Pig Control Two goat drives were held during the month. These drives, plus other control measures, brought the number of goats destroyed to 307 for the month.

The lone goat known to the ranger division as "The Black Widow" was killed in Kilauea Iki by Ranger Hartesveldt. Every one on the park staff has hunted this goat at one time or another. Its removal has eliminated another eye sore to the park.

Goats are in evidence again on Mauna Loa. Ranger Hartesveldt reports that the salt put out in the Hilina Pali area has been heavily used by goats. Further experiments continue with the use of salt.

Nine pigs were destroyed or removed from the park during the month.

Signs Sixteen signs were erected this month, bringing the total to 82 for Kilauea Section erected since the change to routed signs was made.

Accidents Covered in another report being handled by Warden McCall is the accident involving a 1940 Ply Sedan, our Hilo entrance sign and stone pier.

Protection Early and late patrols have brought to light many little peculiarities that have been in practice by various residents of the area. It is hoped that such patrols will eliminate the necessity for arrests.

Evidence of gravel having been taken from our stock piles at the crusher show the need for greater protection for that area. The patrols now made are not adequate to cover this area. A fence and locked gates are more in order, as a truck is necessary to move much gravel.

Frank A. Hjort,
Chief Park Ranger

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

HAWAII

January 9, 1948.

Narrative Report for December, 1947, of Acting Superintendent Moomaw.

Special Activities

maintained
The Superintendent devoted the whole month up to the 16th to last minute preparations for his trip to the Regional Office. This consisted of outlining arrangements for the carrying on of the various phases of the work program during his absence and collecting and accumulating papers and data regarding subjects he wished to take up while in the Regional Office. He sailed for San Francisco via Navy transport from Honolulu December 17. *new*

Special activities of the Assistant to the Superintendent prior to the Superintendent's departure are high-lighted as follows: *and after*

He was in Honolulu from the 2nd to 5th to inspect and attempt to secure from War Assets Administration and other Governmental agencies various pieces of equipment for Region Four Office and other parks within Region Four. This trip was not too successful due to the withdrawal of vast quantities of this desired equipment for use by military agencies throughout the orient and Pacific.

During this trip it was discovered that the armed forces declared material "Excess" and "Surplus" at the same time. The result is that military priorities are coming in just after the publication of the sales circulars and when a buyer arrives at the various storage areas for inspection he finds that this material has been withdrawn, if not actually shipped to the priority claimants.

On the 16th the Acting Superintendent took Mr. and Mrs. Oberhansley to their plane in Hilo and while at the airport received a teletype from the Director's Office directing that we pick up a Sea Sledge advertised by the WAA for sale on Oahu. He left on the first plane on the 18th for Honolulu to inspect and negotiate for the purchase of this craft for Everglades National Park. After arriving in Honolulu and making arrangements to inspect this sled and arriving at the scene of storage it was accepted, and to date it is believed to be the best piece of surplus equipment ever inspected by the undersigned. It is a pity we were unable to pick up all seven of these craft as we had first priority but as our purchase order was handed to the War Assets Administration a phone call came in giving an intent to purchase five of the six remaining sleds. Tentative plans were made with the shipping authorities to move this craft to a Gulf port, probably Mobile, on the next available steamer.

The annual Christmas party for the children was given by the park personnel families in the recreation hall in the old CCC Camp Saturday afternoon, Dec. 20, and it turned out to be a most successful and gala affair. During this party the ladies began planning a pot-luck supper for the park families, which plans

were speedily completed and this dinner was given on the evening of December 29 and was one of the nicest family parties ever seen in the park.

Also during the holidays the Officers Club of Kilauea Military Camp gave several delightful parties, including two dances, one on the 23rd with music furnished by the orchestra from the air craft Carrier U.S. Valley Forge, and a formal dance New Years Eve, to all of which the park personnel were invited by a very handsome gigantic Christmas card, framed in gold with a huge red bow with streamers attached, lettered in Old English by hand, bearing the signature of Colonel Ware, C.O.

Open house was held by several members of the staff during the holidays that were attended by all the park personnel, the Military Camp and other friends of the individuals giving these affairs.

The 1949 Roads and Trails Estimates were completed between the 26th and 30th and mailed on the 31st.

Informal word was received toward the end of the month regarding the transfer to the U.S. Geologic Survey of the activities of the Volcano Observatory together with the personnel now devoting their time and energies to this work. The information at hand indicated that the effective date of this transfer was December 28 and at the year's end no word whatsoever had been received in regard to this, so naturally no move has been made locally to effect this transfer of personnel and equipment and activities to the other bureau. We are daily expecting instructions and information regarding this matter.

Maintenance

The gutters and roof of the Volcano Observatory building were re-connected to the park's collecting system the first two weeks of the month, utilizing some 6" spiral weld pipe acquired from WAA and the Navy last spring.

Ditches were dug by ditch-digging equipment borrowed from the Territory and various other members of the staff turned out in their free time to assist on this job. For the first time since this building has been in use this ^{quarter} gutter acre of roof area has been efficiently utilized in the park's water collecting system.

Inspections

From December 4 to 7 Highway Engineer Frank R. Carlson of ~~the~~ PRA was in the park and the Superintendent accompanied him on complete road inspection. Discussion of approach road problems was had and field inspections were made to determine possibilities for realigning the Hilo approach road and rerouting the Mamalahoa Highway to exclude that road from the park, with the exception of a one mile section crossing the Mauna Loa strip. Mr. Carlson is preparing a special report on this proposed road relocation.

Visitors

On December 14 Concessioner and Mrs. George L. Mauger and son George Jr. arrived in the park for a week's visit. They were greeted at a dinner at the Volcano House with a typical Aloha by 40 Park Service personnel.

Miscellaneous

On the 26th Chief Engineer Maze of C. Brewer & Company called at park headquarters with a request that we furnish him the specifications for construction of Section 3-B of the Mamalahoa Highway that was built about 1930. We referred him to the Public Roads Administration office in Honolulu for this and other specifications, all of which are not immediately available in this office. The reason for this request is that this road has now been in daily use for approximately 20 years and is in much better condition by far, and after having received only a minimum amount of maintenance since its construction, than any other road in the Territory of Hawaii. The plantations are greatly interested in duplicating similar roads for the transportation of sugar on their properties, as nothing built to date by them has withstood the pounding of the 10 to 20-ton trucks for more than about 18 months at a time.

Wildlife

On the 29th a request was relayed to this office by Col. L. W. Bryan, Associate Territorial Forester on this Island, for 12 live goats to be used by the air force at Hickham Field in their ammunition area in an attempt to keep brush and other vegetation under control and thus release an equal number of men now constantly cutting brush in the ~~ammunition~~ area.


Benjamin F. Moomaw, Jr.,
Acting Superintendent.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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HAWAII NATIONAL PARK
HAWAII

13766

January 5, 1948

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for December, 1947.

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Work of R. H. Finch

In addition to routine seismology which took up most of my time correspondence and looking over material in the library were other projects that took up a large part of available time.

Work of B. J. Loucks

The chief time consuming jobs worked on by the instrument maker during December were: 1- Overhauling of Bosch seismograph; 2- Making adjustable parts for tilt meters; 3- Working on a tractor torque tube for Foreman Quick. He was on leave December 13 to 19 inclusive.

R. H. Finch

Ruy H. Finch,
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January 7, 1948

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Nine pigs were destroyed or removed from the park during the month.

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Page 2

Signs Sixteen signs were erected this month, bringing the total to 82 for Kilauea Section erected since the change to routed signs was made.

Accidents Covered in another report being handled by Warden McCall is the accident involving a 1940 Ply Sedan, our Hilo entrance sign and stone pier.

Protection Early and late patrols have brought to light many little peculiarities that have been in practice by various residents of the area. It is hoped that such patrols will eliminate the necessity for arrests.

Evidence of gravel having been taken from our stock piles at the crusher show the need for greater protection for that area. The patrols now made are not adequate to cover this area. A fence and locked gates are more in order, as a truck is necessary to move much gravel.

Frank A. Hjort,
Chief Park Ranger

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Sixth monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for December, 1947.

During the month of December the library received the following items by gift:

Two reprints from C. A. Cotton of Australia: "The 1945 eruption of Ruapehu" and "Ruapehu in 1945".

"Origin and development of craters" by T. A. Jaggar (Geological society of America. Memoir 21) from the Hawaii Natural History association.

"The results of observations made at the U. S. Coast and geodetic survey magnetic observatory near Honolulu, Hawaii" 1905/06-1935/36, were sent to the University of Hawaii library in order to complete their holdings of this publication.

An article by the librarian "New Special Library at the Hawaii National Park" was published in the December issue of the Journal of the Hawaii Library Association.

227 items were accessioned, 98 titles, 23 added copies and 191 added volumes cataloged and classified: 79 with L. C. printed cards, 19 with typed cards. 6 maps were cataloged. 98 shelf list cards were typed. 1,124 cards were typed and filed in the catalog: 585 L.C. printed cards, 539 typed cards. 312 items were marked and shelved. Two orders of L.C. cards were received - a total of 499 cards.

Mary Melton
Mary Melton, Librarian

R.H.G. ✓
HAP ✓
B.S.M.-67000

10-28
(May 1920)

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

FILE NO.

SUPERINTENDENT'S MONTHLY NARRATIVE REPORT

NOVEMBER, 1947

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 10, 1947.

Summary of November, 1947 5-page Narrative Report for
Hawaii National Park

Weather Conditions, p.1.- Precipitation at Kilauea 10.71" and at Haleakala 4.66". Maximum and minimum temperatures at Kilauea 75° and 46°. At Haleakala 68° and 39°.

Special Activities, pp.1-2.- Inspection at Haleakala; meter installed on NPS line and connection made with Army power line to Red Hill for electric current as authorized by Army. Concessioner's problems gone over. Discussions held with Chamber of Commerce, County Commissioners and Army officials regarding earthquake and disaster warning procedures. Continuing study made of water problem in headquarters area.

Interpretation, Research and Observation, pp.2-3.- Rainfall records for the park from 1899 to present time were tabulated and put in form of a chart to be used in connection with the domestic water supply survey. Inspection and research trip made to Pui Ulaula at 10,000 ft. elevation on Mauna Loa; detailed study and mapping made of the source vents from which prehistoric flows were extruded. November, like October, was quiet seismically, with but 18 earthquakes recorded on the Kilauea and Mauna Loa seismographs.

Cooperating Government Agencies, p.3.- Conferences held with Col. Ware of Kilauea Military Camp and other Army officials from Ft. Shafter regarding water problems. As result of difficulties on our 5-party telephone line, arrangements were made with Telephone Company and Col. Ware of KMC to handle all Government calls thru the Army switchboard without cost to this Service.

Public Health, p.3.- During "breaking in" of new water storage tanks and collection system, weekly samples of water sent to Public Health Service in Hilo for analysis. Chlorination of all water when indicated was done. Water in storage Nov.30 was slightly in excess of one million gallons.

Maintenance & Construction, p.4.- Besides rebuilding water pump and installing new Diesel engine, needful repairs made to some of the quarters; also started connection of Observatory building to water collection system.

Ranger Service, p.4.- Largely routine. 84 goats and 7 pigs destroyed at Haleakala; 113 goats destroyed at Kilauea.

Surplus Property, p. 5.- As listed

Approaches to Park, p.5.- Because of unsightly half-completed Quonset huts, foundations and junk piled up against the park line near the Hilo Entrance, a restudy of the realignment of the Hilo approach road has been recommended.

Visitors, p.5.- As listed

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

December 10, 1947.

MEMORANDUM for the Director.

Activities in Hawaii National Park for the month of November, 1947 are reported herewith:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 75° and 46°. At Haleakala ranger station these recordings were 68° and 39°. Total rainfall at Kilauea was 10.71" and at Haleakala 4.66".

Special and General Activities

Park Foreman Quick and Mechanic Fujimoto were in Honolulu during the first week of the month making final selection of heavy equipment from Army-Navy-Marine surplus and transporting the items selected to the Army dock for shipment to Hilo by Army barge and tug. This equipment is listed under caption "Surplus Property" in this report and was delivered at the dock in Honolulu consigned to Kilauea Military Camp for delivery to this Service, without reimbursement for transportation, and was received in the park the middle of the month.

November 12 to 14 the Superintendent and Foreman inspected the Haleakala section of the park. A meter was installed on the National Park Service line there and certain repairs were made to transformers and connections were re-established at the Lodge with the Army power line to Red Hill, thus eliminating the constant use of Diesel generators by Concessioner von Tempky and the high rate for current to this Service assessed by Army estimate, which was too high. A conference was had with the Concessioner and the Acting District Ranger on certain problems neither understood clearly, concerning the operation of the concession under conditions of the special use permit. A fire and sanitation inspection revealed conditions to be as satisfactory as can be expected with existing facilities. There is serious need for fire hose as the only fire protection for the Lodge buildings is represented in CO₂ extinguishers procured from Navy surplus. Check repairs to roads and trails in the Haleakala section have been completed to a point where this work can be temporarily curtailed without serious results by releasing all but one of the four laborers employed in this work at the end of next month. Lack of funds necessitates this curtailment.

The crater rest houses need considerable rehabilitation before the next summer travel season, and additional water storage at those sites will be

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Special and General Activities (cont'd)

required to provide for increasing need imposed by pack and saddle trips offered by the concessioner. The concessioner's business is somewhat sporadic, largely dependant upon weather. For days at a time during stormy weather no visitors appear at the Lodge and, again, at times during fair weather all space, including the employees' quarters, is sold to accommodate visitor needs. At such times the employees have been permitted to use surplus rooms in barrack buildings not included in the special use permit. Regular room accommodations are now available at Haleakala for 21 guests.

Informal talks were given to several groups of visitors at focal points in the Kilauea section of the park on week-ends. Regular Rotary meetings were attended in Hilo and the Superintendent served on the Program and Rural Welfare Committee of Rotary during the month. He was also requested to speak to Rotary, Kiwanis, and Lions Club on Maui when convenient dates can be arranged.

Discussions were held with the Chamber of Commerce officials, County Commissioners, and Army officials regarding earthquakes and disaster warning procedures and a tentative date was set for a meeting next month for all agencies concerned to coordinate this program.

A continuing study was made of the water problem and an excellent analysis was received from the Regional Office. New data was prepared based on maximum requirements and greatest drought expectancy.

A summary was made of the complete history of boundary revision proposals.

Interpretation, Research and Observation

The Park Naturalist attended conferences at the University of Hawaii early in the month at which plans were discussed toward the founding of a center of oceanographic research as part of the University of Hawaii. While in Honolulu he also had copies made of eruption views and looked over a collection of Hawaiiana which has been offered to the park.

He spent two days reviewing and tabulating the rainfall records for the park from 1899 to the present time, and working these data into the form of a chart to be used in connection with the domestic water supply survey.

The exhibit in the trailside shrine at the crater of Halaopuhi was restored and it is hoped that the shrine at Halemauau can also be replaced in the near future. The glass was broken and the photographs taken away during the war. It is planned to restore the exhibit in much its original form, including photographs of the 1924 steam-blast eruption, the lake of molten lava in Halemauau, and a graph to show the activity of Halemauau during historic times.

To expedite the setting up of a temporary display in the museum, use will be made of the large Eastman Projection Printer obtained from the Navy under P.L.478. Large murals can be made for the walls with this enlarger. Dr. Jaggard has selected his best negatives and has made them available for our use in this connection.

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Interpretation, Research and Observation (cont'd)

The Park Naturalist made a three day inspection and research trip to Puu Ulaula at 10,000 ft. elevation on the northeast side of Mauna Loa. A detailed study and mapping was made of the source vents from which several prehistoric flows were extruded along the northeast rift between 10,000 and 9,500 feet elevation.

The paper on Kilauea Explosive Eruptions has been completed and submitted to the Director for approval to be published in the Pacific Science Quarterly.

November, like October, was quiet seismically with but 18 earthquakes recorded on the Kilauea and Mauna Loa seismographs. This is the smallest number recorded at Mauna Loa for several years. Following the distinct earthquake of October 31, which originated high up on the rift extending from Mokuawaweo to Kealakakua Bay, the Kona seismograph recorded two small shakes along the same rift. This rift was active in 1877, producing a small lava flow in Kealakakua Bay. On November 28 there were two periods of continuous tremor, each lasting three minutes. The tremor was more like that which accompanies an outbreak of Mauna Loa than like individual earthquakes. The tremor originated at Kilauea. Tilting during the month was moderate to the east-northeast. There was but little or no movement of the measured cracks around the Halemaumau rim.

Cooperating Government Agencies

Several conferences were held with Colonel Ware of Kilauea Military Camp and other Army officials from Ft. Shafter regarding water and other mutual problems at FMC. Most of these people show little enthusiasm for installing a more permanent system and all seem to favor increasing the shed area and storage facilities. Their attitude seems to be one of providing as adequately as possible for the needs of the Camp so long as they are here and leaving their successors to worry about the future.

As a result of difficulties on our 5-party telephone line, arrangements were made with Manager Lowry of the Hawaii Telephone System and with Colonel Ware to handle all Government business through the Army switchboard and its private line to Hilo, without cost to this Service. This also includes service to the smaller outside islands.

Public Health

During the process of "breaking in" our new water storage tanks and the collection and distribution system, weekly samples of water have been taken for examination by the Territorial Public Health Service in Hilo. Some of the samples show the water to be potentially unsafe for consumption, and chlorination of all water has been necessary. This has resulted in several oral complaints from local residents not accustomed to using chlorinated water. Chlorine is applied according to Public Health Service recommendations of 1 oz. per 5,000 gals. of water stored. Water in storage on November 30 was slightly in excess of one million gallons.

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Maintenance and Construction

The four laborers at Haleakala devoted five days to road repair and maintenance. The balance of their time was spent on trail maintenance and major repairs to the Halemaun Trail.

Besides rebuilding water pump and installing a new Diesel engine, considerable time of the maintenance division at Kilauea was devoted to making needful repairs to some of the quarters, where sewers, cesspools, and gutters were in bad condition. Also started connecting the Observatory building to the water collection system. This building had 14 downspouts but only four were connected, the balance being plugged at building line, with the result that practically no water has been collected from this source. A 6" spiral belt line is in process of being laid and should be completed by the end of next month. The second portion of rained was raised and connections made to new water tanks; made final connections to new water system on main lines.

Grading of the Mauna Loa and Halani Pali truck trails was accomplished during the month, and miscellaneous patching of major roads and crusher operation. The new 600 gallon bituminous spreader arrived in good condition and also a "Good Roads" material spreader.

Approximately 50 carved signs were completed by sign men.

Ranger Service

At Haleakala, in addition to patrolling the area, including goat control work in the crater, the rangers weather-proofed the warehouse with roofing paper, cleaned the water system intakes at the four crater rest houses and at the ranger station; installed a chain across the road to Red Hill. Repairs were made to riding and pack saddles and the park stock was re-shod.

In addition to the usual sunrise contacts, the Acting District Ranger gave three illustrated talks to a total of 150 visitors.

84 goats and 7 pigs were destroyed at Haleakala.

At Kilauea routine patrols and customary work occupied the ranger force throughout the month. The Volcano House was inspected for fire hazards on the 26th. The new fire hydrants were lubricated with graphite so all can be opened without trouble. The Mauna Loa tree plots were checked. Salt experiments in the control of feral goats were continued.

113 goats were destroyed at Kilauea.

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Surplus Property

We received the following heavy equipment by direct transfer from the Army about the middle of the month:

1 - Quickway truck-mounted crane,	Condition: new
1 - 7½-ton Federal Diesel truck tractor,	" used but good
1 - 20-ton full low bed trailer,	" " " "
2 - Tilt-type trailers to haul horses,	" " " "
2 - Jeep dump type trailers	" new
3 - Jeeps	" used but good

Approaches to the Park

The road from Hilo to the park, particularly between Olna and Mountain View, has deteriorated further due to discontinuance of maintenance and continued heavy freight trucking by the plantations. Two days were devoted by the Superintendent to exploring new approach road possibilities for consideration in the event realignment and a new Hilo Entrance to the park are decided upon in connection with reconstruction of the road from Hilo to the park.

The unsightly mass of half-completed quonset huts, foundations and unsorted junk piled up against the park line near the Hilo Entrance is a sad introduction to the park. Several prominent and civic-minded friends of the park have suggested that a new approach road and entrance to the park is the only solution for the growing blemishes near the present entrance. All here desire to see these abolished in favor of a more suitable entrance and a new approach road, with sufficient right-of-way to protect the roadside against development within three to four miles of the proposed new entrance. A restudy of this problem has been recommended.

Library

37 items were accessioned, 134 titles, 13 added copies and 87 added volumes cataloged and classified; 70 with typed cards, 64 with L.C. printed cards, and 128 analytics were made; 134 shelf list cards were typed, 200 cards typed and filed in the catalog and 234 items marked and shelved.

Visitors

Mr. Donald H. Wolbrink, Honolulu (former NPS Landscape Architect)
Capt. W. S. Mayer, USN, Pearl Harbor (in charge of Navy ships handling our transportation needs in the Territory)
Mr. Milton W. Phillips, Visalia, Calif.
Mr. Theo. Vance, Supervisor of Territorial Institutions,
Several members of the Territorial Legislation and members of local County Board of Supervisors.

(SGD) F. R. OBERHANSLEY

Frank R. Oberhansley,
Superintendent.



At 7 A.M. on the morning of Nov. 15 following heavy rains a dense cumulus cloud was observed rising from Halemaumau, giving rise to the rumor that molten lava has returned to the pit. Steam jets 20 to 30 ft. high issued from cracks on every part of the crater floor. Three hours later Chief Ranger Hjort took this photograph, several hours after the most spectacular display was over.



Showing installation of new collection system at new headquarters building. This was left incomplete when constructed with only a portion of the front side of building served by a small section of 2" pipe leading to a 10,000 gal. concessioner owned tank. Down-spouts were built in walls and plugged below the ground line



with wood stops and steel caps. Trench from left serves cottages and dormitory. Gutters were tin lined and new down-spouts are required. Practically no water has been collected from this building and considerable trouble has been caused by gutter overflow.



Ditcher borrowed from Territory to install water collection lines excavating trench from new Administration and Museum building to main collection line.



Installation of 6" collection line around above named building. Note wooden plug in end of pipe leading from gutter down spout typifying how collection system was left incomplete and concealed at this building.



concealed behind the shed. A cross gutter was constructed to divert water from near side of shed to tanks. Existing shed area measures 108 ft. x 114 ft. Large storage room and equipment storage stalls under shed afford much needed shelter and security for supplies and equipment.

Use of the Quick-Way crane facilitated raising the lower half of the rainshed. Increased height was necessary to secure direct drainage into new storage tanks

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Memorandum to the Supt.:

The following report of the activities of the ranger division for the month of November 1947 is respectfully submitted:

Maintenance All gutters on ranger homes were cleaned this month.

The water tank at Kapeka Nene was repaired and filled.

Research and Observations Ranger Davis reports that his annual forest and insect report is about half completed.

The use of salt by goats was checked and found to have increased considerably at Makua Pali.

A new area was located in the S.W. corner of the park for salt experiments.

The Mauna Loa tree plots were checked.

Visitors Mr. and Mrs. Richard Wilkinson and children of Kapeka Kawai visited the park.

RECEIVED AS FOLLOWS

this month. Mr. Williamson was engineer-in-charge of the Haleakala road project in 1935.

Other visitors were Messrs. Robinson of the "Nihoa Robinson" and his parents, Attorney and Mrs. Matthews of San Francisco.

Capt. W. D. Mayer, Jr. U.S.M. and his wife while at K.M.C. were shown around the park by the rangers.

Police Protection. Routine patrols were made throughout the month. Both early and late patrols were started to give a longer period of protection to all areas of the park.

Rain gauges and seismographs were read as required.

Building Fire Protection. The Volcano house was inspected for fire hazards on Nov. 26.

The fire engine has been inspected regularly. The new fire hydrants were

RECEIVED AS FOLLOWS

lubricated with grafite so all can be opened without trouble,

Mr. Kafopala ranch was contacted as to the number cattle grazing in the park. He has not been up to quota.

His crew went up the track trail to Mauna Loa with a total of twenty-three people.

His cuts and 113 goats were destroyed this month.

Frankly Hunt
Chief Park Ranger.

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



December 4, 1947.

MEMORANDUM for the Superintendent.

SUBJECT: Report of Hawaiian Volcano Observatory for November, 1947.

November like October was quiet seismically with but 18 earthquakes recorded on the Kilauea and Mauna Loa seismographs. This is the smallest number recorded at Mauna Loa for several years. Following the distinct earthquake of October 31 which originated high up on the rift extending from Mokuaweoweo to Kealakekua Bay, the Kona seismograph recorded two small shakes along the same rift. This rift was active in 1877, producing a small lava flow in Kealakekua Bay. On November 25 there were two periods of continuous tremor each lasting over 3 minutes. The tremor was more like that which accompanies an outbreak of Mauna Loa than like individual earthquakes. The tremor originated at Kilauea.

Tilting during the month was moderate to the east-northeast.

There was but little or no movement of the measured cracks around the Halemaumau rim.

Work of R. H. Finch

Routine seismological work and correspondences took up most of my time. Some time was spent in looking over and discarding obsolete items in the library.

Work of B. J. Loucks

In addition to assisting in seismological routine, he worked on new tilt meters, pen arms for the Mauna Loa seismograph, a valve seat for Paint Sprayer, a fixing bath for the Hilo seismograph, and unpacked and checked new milling cutters.

R. H. Finch

Ruy H. Finch
Volcanologist.

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

December 9, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for November, 1947, of Assistant to
Superintendent and Acting Resident Engineer Moomaw.

General

All time not covered specifically under the following headings was spent on routine Administrative duties.

New Construction

Water System.

The final connections between the six new 100,000 gallon water tanks were made on November 3-4 and pumping tests were run during the 5-7th using the "Blue Streak" pump turning at 1425 r.p.m.

Two minor leaks were noted in the last 200' of 6" pipe line, leaks that required very little effort to repair.

This pump developed an average discharge into these tanks in excess of 12,000 gallons per hour with a gasoline consumption of about 6 gallons per hour.

The undersigned joined the labor crew and other staff members in a "HUKIPAU" over the week end of 8 & 9th in order to complete the raising of the rain shed roof (W side) before an anticipated rain storm that began falling on November 11th.

The old park pump that was rebuilt and re-powered by a new 55 h.p. Waukesha diesel engine was installed 24-26th, it was actually cut into the main and tested in P.M. of the 26th with a measured discharge of 6750 gal. per hour at 1200 r.p.m.

Boundary Changes

Reports on and resume's of, each proposed addition to the park were completed between 17-20 and mailed to Region IV in order to meet the December 1 dead-line. This report resulted from the August request from the Director's Office.

Public Health

The water system was chlorinated at the pumps each time the pumps were in operation.

Safety

The Park Safety Committee met on 17th.


Benjamin F. Moomaw,
Asst. to Superintendent & Acting
Resident Engineer.

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



November 30, 1947

Memorandum for the Superintendent:

Subject: Haleakala Section Monthly Report for the month of November, 1947.

Weather Conditions.

The weather in this section has been rather unsettled. Six days of rain were experienced, on the 8th., 11th., 12th., 13th., 14th., and 15th., making it wet and rather miserable for visitors. During the middle of the month we had about a dozen cloudy or partly cloudy days. As a result of these rains the entire mountain presents a nice green appearance.

Maximum temperature	68 degrees
Minimum temperature	39 degrees
Rainfall total	4.66 inches
Clear days	19
Partly cloudy days	10
Cloudy days	1

Park Visitation.

Visitation was slightly under normal throughout the month, Actual number of visitors that registered at the summit for the month was 883, and the travel count for the month amounted to 1972 people and 464 cars.

Number of animal days in the crater for the month were 94, of which 59 were from the Lodge and 35 were from the Park.

Special Activities.

An inspection of this section was made by Superintendent Oberhansley, Foreman Quick, and Heavy Equipment Operator Rayburn. The power line at the Lodge was checked and a meter was installed at the Park.

Maintenance.

Laborers spent most of their time on Trail Maintenance, and about five days on road maintenance.

Ranger time was spent patrolling the area, cleaning the Observation Station and Road, putting roofing paper on the end wall of the warehouse,

(2)

cleaning out water intakes both in the crater and out, shoeing the Park horse, hauling supplies to be shipped to Hilo, trips to town for mail and other Park business, installing a chain across the road leading to Red Hill, repairing some riding and pack saddles, crating of some toilets to be sent to Hilo, work on the Majic Eye road counter (now working alright) several trips into the crater on goat control and to take supplies to the cabins, the 1942 Mauna Loa Eruption picture was shown to a group of 30 people, also the kodachromes were shown to about 45 people, and during the month informal talks were made with 75 people in the Park.

Wildlife.

42 goats and 7 pigs were destroyed during the month.

James C. Lindsay
James C. Lindsay
Acting Ranger-in-Charge

Final - Librarian

Fifth monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for November, 1947.

During the month of November the library received the following items by exchange and gift:

Fine reprints from the Istituto geofisico, Triest.
Bishop museum, Memoir X, Bulletin 2, 13, 53, 68, 96, 105, 107, 116, 118, Occasional papers, v. 2, no. 1, v. 5, no. 5, v. 7, no. 2, 11, and Special publications, 19, 20, from the University of Hawaii library.
Geologie en Mynbouw, v. 8, no. 10, v. 9, no. 1-9, by exchange.

The material under the subjects Publisher's Catalogs, Clubs-Directories, Hawaii - General, Machines - Catalogs, was re-examined and much obsolete matter discarded. A vertical file has been organized. 80 pamphlet boxes were cleaned and made ready for use in shelving. The marking of books and pamphlet boxes, the typing of the cards for the catalog took a great deal of time.

The issues of the Paradise of the Pacific were carefully analyzed. The set is incomplete. Analytics were made for all articles on volcanoes, geology of the islands, the park and all related subjects.

37 items were accessioned, 134 titles, 13 added copies and 87 added volumes cataloged and classified: 70 with typed cards, 64 with L. C. printed cards, and 128 analytics were made. 134 shelf list cards were typed, 200 cards were typed and filed in the catalog and 234 items were marked and shelved. L. C. printed cards were ordered for 217 titles and 144 analytics. Two orders of L. C. cards were received - a total of 1,007 cards.

Mary Melton

Mary Melton, Librarian



10-23
(May 1923)

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

FILE NO.

Superintendent's Narrative Report

October, 1947

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 8, 1947.

Summary of October, 1947 6-page Narrative Report for
Hawaii National Park

Weather Conditions, p. 1.— Precipitation at Kilauea 4.01" and at Haleakala 23.58". Maximum and minimum temperatures at Kilauea were 75° and 51°. At Haleakala 75° and 41°.

Special Activities of Supt. pp. 1-2.— Group of visiting congressional members were in the park Oct. 15-16; another group of business men from the Carrier Valley Forge visit the park on the 16th and taken thru the park by the Superintendent. October 27th he participated in Navy Day program in Hilo.

Interpretation and Research, pp. 2-3.— 11 earthquakes recorded at Kilauea for the month and 30 at Mauna Loa.

Maintenance and Construction, pp. 3-4.— Eight new 100,000 gal. water tanks completed.

Cooperative Governmental Agencies, p. 4.— RMC transferred considerable quantities of surplus material without exchange of funds, including several hundred feet of 6" galvanized pipe, 1200 sheets of new galvanized roofing, plumbing and electrical fixtures.

Ranger Activities, pp 4-5.— In addition to their own ranger work, the ranger personnel devoted six days to helping on erection of water tanks.

Visitors of Note, p. 6.

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

November 8, 1947

MEMORANDUM for the Director.

Activities in Hawaii National Park for the month of October, 1947 are reported herewith.

General Weather Conditions

From the viewpoint of visitor use the weather was generally ideal, excepting October 25, when 20.40 inches of rain fell in the Haleakala Section. The most consistent feature about the weather in Hawaii National Park, so far as rainfall is concerned, is its inconsistency, as the following figures for October, 1946 - 47 indicate:

Kilauea

1946	Maximum	77°	Minimum	51°	Rainfall	14.15
1947	"	75°-75	"	51°-46	"	4.01 10.71

Haleakala

1946	Maximum	69°	Minimum	39°	Rainfall	3.15
1947	"	75°-68	"	41°-39	"	23.58 - 4.66

Special Activities

Foreman Quick and Park Naturalist Hubbard left for Honolulu on October 1 to select heavy equipment and photographic gear including 20 ton low bed trailer and tractor, 6 ton truck mounted crane, jeeps, horse trailer, parts for all equipment, cameras, dark room fixtures, photographic supplies and to investigate further the possibilities of securing suitable radios. Arrangements had been made previously to procure this equipment through direct transfer without exchange of funds from Army, Navy and Marine Corps surplus. Mr. Hubbard returned on October 4 while Mr. Quick remained in Honolulu until October 8 to make thorough inspections of equipment and to attempt to secure transportation by Army or Navy boat. We were later informed by port authorities from the U. S. Army Engineers that they could transport the above equipment and other items to be trans-shipped from Honolulu that had been procured on Maui, but that we would be billed at commercial rates which they estimated would amount to approximately \$2500 to \$3000. This matter was immediately taken up with Colonel Ware at K.M.C. Ho

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Special Activities (cont'd)

telephoned our good friend Colonel Steel, Commanding Officer of G-4 in Honolulu, who immediately ordered the Engineers to provide a barge and tug to transport this equipment to Hilo, without re-imbursment, in connection with their operations at the Hilo breakwater. On October 31 notice was received from the Engineers that the above transportation could be provided during the first or second week in November depending upon when we could assemble equipment at the dock.

A general fire drill was held during Fire Prevention Week and special attention was given to elimination of fire hazards. Fire control facilities in the park now equal or excel those in Hilo. Insurance adjusters and a representative of the company with whom the Volcano House Ltd. is insured made a thorough inspection of all fire-fighting facilities and hazards and as a result it is anticipated that the rate will be reduced by more than one half at the hotel. The improvement in our water system and fire protection reflects equal advantage to the government investment.

On October 15-16 ten members of a visiting congressional party were in the park. The Park Naturalists presented motion pictures and lecture at the hotel on the evening of October 15 and the Superintendent conducted the party on a 3 hour trip about the park on the following morning. The afternoon of the 16 a group of 14 visitors from the Carrier Valley Forge was conducted through the park. These business men included 2 members of the Eccles family, prominent bankers of Utah, one of whom was a former college classmate of the Superintendent. October 20 two members of the House Military Affairs Committee and visiting Army and Navy officers combined a visit to the park with an inspection at K. M. C. After lunch at the camp most of the afternoon was devoted to conducting the visitors about the park. October 27 participated in Navy Day program in Hilo culminating in dinner at Naniloa Hotel sponsored by Chamber of Commerce in honor of fleet officers from 3 naval vessels that were in port for the occasion.

Inspections

Insurance adjusters, Messrs Palmer and Swanson made a thorough inspection of all fire protection facilities in the park on October 16 as mentioned previously. They were accompanied by Mr. J. Paul Leebrik of the Home Insurance Co. of Honolulu.

October 28 to October 31 Assistant to Superintendent Moonaw and Ranger Hartesveldt made the monthly inspection of the Haleakala Section.

Interpretation, Research and Observation

Many fine comments have been received on the services of the Park Naturalists. Major General Jack Hord and Mrs. Hord from Washington, D. C. called to report that the regularly scheduled illustrated talks and guide trips arranged for guests at K.M.C. were the most interesting and informative programs of this type they had ever attended.

RECEIVED AS FOLLOWS

Interpretation, Research and Observation (cont'd)

It is planned to make use of existing space in the museum to install interpretive displays. New relief maps and flat wall exhibits are contemplated, and old island cases will be repaired and used to display specimens as a temporary measure. Work is in progress to install a new trailside exhibit at Makenopuhi Crater and to freshen up other exhibits. Some thought was given to installing interpretive displays in existing panels in the Haleakala Observatory.

New cameras and dark room equipment procured from Navy surplus listed in the Naturalist's report will enable us to handle all ordinary photography and processing. Two surplus Medallist cameras were sent to the Regional office.

A new suite of kodachrome slides was sent to the Acting District Ranger at Haleakala for use there.

Although hundreds of earthquakes have occurred since our arrival in Hawaii National Park a year ago last June we have actually felt only two of them and both were exceedingly mild compared with the California variety we have experienced.

October was quiet seismically at Kilauea with but 11 earthquakes recorded. This is the smallest number recorded at Kilauea for many months. The Mauna Loa seismograph recorded a more usual number of 30. The majority of the Mauna Loa shakes were very small with origins along the northeast rift. An earthquake that originated under the Koaiki fault near Kapapala was generally felt over the eastern part of the island at 12:27 A.M. October 17. The strongest earthquake of the month occurred at 2:13 A.M. October 31. It dismantled the Mauna Loa seismograph. The quake originated at a depth of 12-15 miles below the southern end of Mokuawaweo.

There was about the usual northerly tilt during the month. The slight westerly tilt was opposite in direction to the normal for October.

Cracks around the Halemauiau rim and along the Chain of Craters Road showed but little movement.

The Volcano Letter manuscript for July-September was finished and sent to the publisher.

Maintenance and Construction

Erection of water storage tanks continued and at the end of the month eight new 100,000 gallon tanks were completed. Cement floors were laid and finished in the space designated in park plans in existing building and newly acquired wood working power machinery was moved in preparatory to installing. Most of the time of Assistant to Superintendent was devoted to engineering and water system work.

RECEIVED AS FOLLOWS

Maintenance and Construction (cont'd)

The transfer of F. L. Rayburn, equipment operator, formerly of Sequoia National Park has enabled the General Foreman to devote more attention to improvement of the water system, major repairs and rehabilitation, general maintenance problems and the acquisition of surplus property. The equipment operator is well qualified to assist with and supervise most of the road maintenance work in addition to operating and keeping equipment in good repair. Road patching and filling was carried on along the Hamalaha Highway and Chain of Craters Road was given routine maintenance. The Mauna Loa Truck trail was regraded and rolled and ravelled edges of the Haleakala road were repaired.

Most of the major repair was completed on the Halamaun trail into Haleakala Crater. Minor maintenance of buildings, including the electrical system was performed.

Concessioners

Exceptionally fine weather contributed to the successful operation of both the Hotel and Lodge. Our laborers who were transferred to the concessioners payroll in October completed the painting and rehabilitation of his structures. The ancient 400,000 gallon redwood tank which became unserviceable last December and 4 unsightly shacks in the vegetable garden area were torn down and are being removed.

Cooperative Governmental Agencies

K&O transferred considerable quantities of surplus materials to the park including several hundred feet of 6" galvanized pipe, 1200 sheets of new galvanized roofing (which currently sells locally for \$3 a sheet) plumbing and electrical fixtures etc. They also contributed use of crane, low bed and bull dozer as needed. Agreement was also made with the Army to secure current from the Red Hill power line for concessioner von Tempaky and Park use at Haleakala.

Ranger Activities

In addition to the usual patrols, observation and public service the Acting Chief Ranger organized an experimental goat drive on Mauna Loa on Sunday, October 26 on which 47 goats were destroyed by 10 members of the park staff. A total of 163 goats and 11 pigs (one of which contained 10 embryos) were destroyed. He also conducted one fire drill and supervised other fire prevention activities.

One arrest was made for speeding and several warnings were issued. A juvenile offender was taken before the U. S. Commissioner who revoked his driving license for a period of 1 year.

Ranger Hartesvoldt continued his observations of feral goats and pigs and damage caused by them. Use of salt blocks as goat bait is being experimented with

RECEIVED AS FOLLOWS

Ranger Activities (cont'd)

and slight alterations were made to the pig trap which to date has caught no pigs. Acting Chief Ranger Davis collected fresh droppings on Mauna Loa believed to be Hane. Last observations made of Hawaiian Goose in Hawaii National Park was January 1945.

Seven additional signs were placed during the month. The name "Harry Tanaka" was found carved on one of the new signs placed in September. After screening several Harry Tanakas Ranger Hartesveldt cleverly located the only one by that name, whose visit coincided with the date of defacement through use of a questionnaire. Mr. Tanaka, of Kona, admitted being in the park and denied the carving but stated that he would be happy to "pay whatever fine." He is now busily engaged sanding his name off the sign which he will restore to its original condition.

The usual sample travel counts were made, pack and saddle animals were shod and otherwise cared for, and grazing and fence inspections were made. The Ranger Division also contributed 6 man days in cooperation with other departments in erecting tanks and installing cement floors in the shop building.

Acting District Ranger Lindsay reported that the 20.40 inches of rainfall at Haleakala on October 25 washed many loose rocks and large quantities of soil onto the road but that little damage was done to the Haleakala Trail. Visitors in the crater reported having to wade through water 2 feet deep in places. Two electric poles were destroyed by lightning. All damage has been corrected. 1720 visitors signed the registration book in the summit observatory.

Other ranger and maintenance activities at Haleakala consisted of routine patrols and service to visitors, custodial service at Observatory, installing new signs, installing magic eye traffic counter, cleaning water systems, painting quarters and waterproofing, acquiring surplus property from Navy and routine patrols into crater where 32 goats and 4 pigs were destroyed during the month. These were included in previously mentioned totals.

Community Socials

Monthly square and folk dances in the park recreation hall are increasing in popularity. Park and KMC officer personnel and neighbors extending as far as Hilo attend regularly. 38 couples participated on the evening of October 20.

Park personnel met at the Volcano House for the usual Aloha dinner in honor of new comers to welcome the Rayborns.

Library

Library of Congress printed cards were received and the cataloging of bound volumes was begun. Much obsolete and worthless material was discarded.

RECEIVED AS FOLLOWS

Library (cont'd)

Twenty three items were accessioned, 131 titles and 21 added copies cataloged and classified, 62 with typed cards, 69 with L. C. cards, 475 cards were prepared for the catalog; 25 typed cards, 200 L. C. cards, 131 shelf list cards were typed. 110 items were marked and shelved. The librarian was in Honolulu October 22-26 to attend the fall meeting of the Hawaii Library Association.

Personnel

F. L. Rayburn EOD as equipment operator October 9.
Chief Ranger Frank A. Hjort continued on annual leave on mainland since June 23.
Clark-Telephone Operator Evelyn Ah Sing returned to duty October 6 after 2 months leave on mainland.
Clark-Stenographer Catherine McKenamin began 2 weeks annual leave October 27.

Noteworthy Visitors

Congressional parties October 15-16

Earl Wilson, Bedford Indiana
Mr. & Mrs. Homer D. Angell, Portland, Oregon
Mr. & Mrs. J. Harry McGregor, West Lafayette, Ohio
Henry D. Lardace, Jr., Opelousas, Louisiana
Mr. & Mrs. Russell O. Mack, Huguana, Washington
Mr. & Mrs. Roy Clippinger, Carmi, Illinois
Mr. & Mrs. E. G. Rohrbaugh, Glenville, West Virginia
Robert F. McConnell, Washington, D. C.
Violet V. Schumacher, Washington, D. C.

October 20

Representative F. Edward Hobart, Los Angeles
Representative W. E. Hess, Ohio

Major General Jack W. Hord & Mrs. Hord, Washington, D.C.
Major General G. H. Decker
Colonel Paul Steele & Mrs. Steele (C.O. G-4) Honolulu
Colonel O. W. Humphries, Q. M. General Hull's Staff, Honolulu
Mrs. Alice Christmann, mother of Mrs. Hubbard, Pasadena
Mr. Spence Keeles, Ogden, Utah
Mr. William Eccles, Ogden, Utah

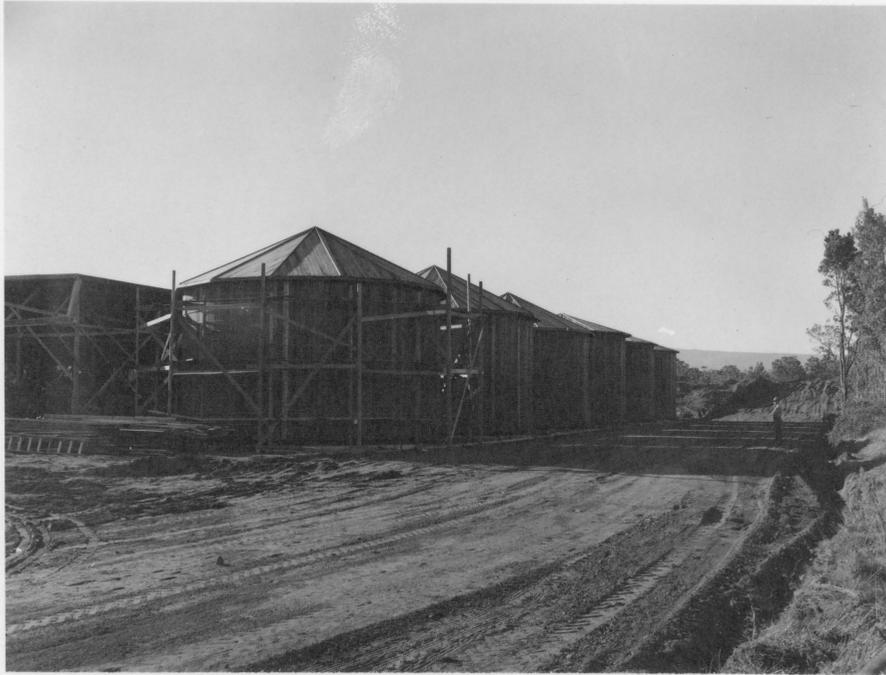
Frank R. Oberhansley,
Superintendent.



Status of tank and rainshed work at beginning of month. Staves of 4th tank at shed in place.



Progress photo taken October 21.

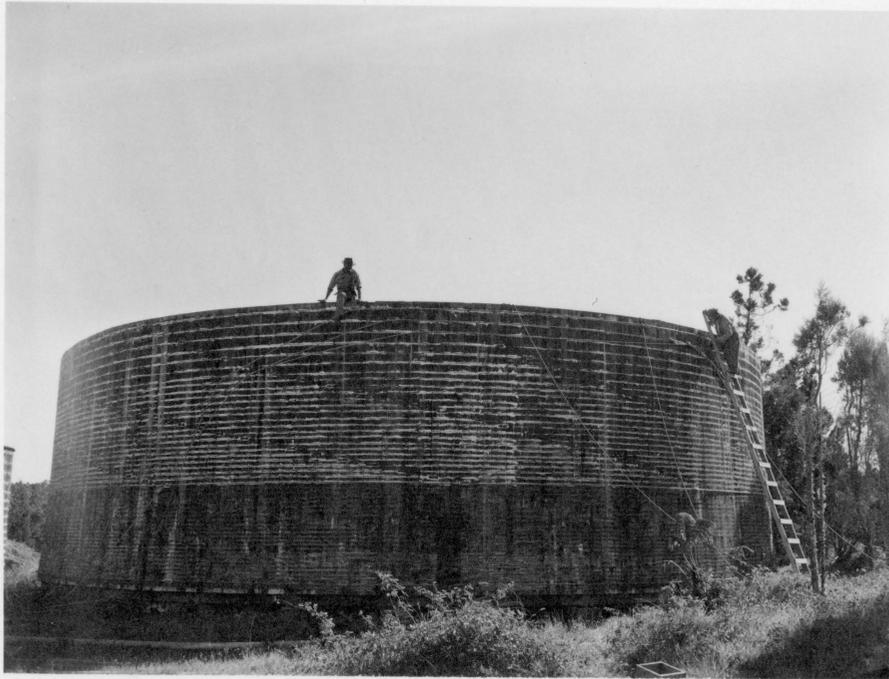


Illustrating completion of 6th tank at rainshed October 30, 2 additional tanks completed in Utility area. Note space for 6 additional tanks.



Foreman Quick demonstrating use of one of 2 air driven wrenches he procured and perfected for tightening bands. By actual timing use of these wrenches saves approximately $8\frac{1}{2}$ man days in erection of one tank.

All tanks are guttered, giving additional rainshed area that will provide $1/2$ million gallons additional water yearly from 12 tanks.



Illustrating dismantling of old 1/2 million gallon tank.



Our laborers on concessioners payroll. Bottom of tank and joists badly decayed. This tank in service over 40 years.



Members of Congressional party at Halemaumau and at Makaopuhi Craters.



47 goats driven into enclosure on Mauna Loa were destroyed, piled and burned by park staff.

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

November 4, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for October, 1947

October was quiet seismically at Kilauea with but 11 earthquakes recorded. This is the smallest number recorded at Kilauea for many months. The Mauna Loa seismograph recorded a more usual number or 30. The majority of the Mauna Loa shakes were very small with origins along the northeast rift. An earthquake that originated under the Kaoiki fault near Kapapala was generally felt over the eastern part of the island at 12:27 A.M. October 17. The strongest earthquake of the month occurred at 2:13 A.M. October 31. It dismantled the Mauna Loa seismograph. The quake originated at a depth of 12-15 miles below the southern end of Mokuaweoweo.

There was about the usual northerly tilt during the month. The slight westerly tilt was opposite in direction to the normal for October.

Cracks around the Halemaumau rim and along the Chain of Craters Road showed but little movement.

Work of R. H. Finch

Routine correspondence and seismological work took up most of my time. The Volcano Letter manuscript for July-September was finished and sent to publisher.

Work of B. J. Loucks

The Observatory sleep watches were worked over. The biggest single job was making a new shaft and fittings for water pump. A new drum drive for the vertical seismograph was made and installed.

R. H. Finch

Ruy H. Finch,
Volcanologist.

Fourth monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for October, 1947.

During the month of October the library received the following items by exchange and gift:

- "American Forests" v. 53, no.2-4, 6-8, from F. R. Oberhansley.
- "Hawaiian Annual and Almanac" 1875, 1884, 1886-1887, 1890-1891, 1899, 1906, 1937-1940, from the University of Hawaii library.
- "Paradise of the Pacific", 108 numbers, and "Mid Pacific magazine", 13 numbers, gift of Dr. T. A. Jagger.
- "The cause and mechanism of igneous intrusion" by R. W. van Bemmelen, gift of R. H. Finch.
- "The mechanics of the explosive eruption of Kilauea in 1924" by R. H. Finch, gift of the author.
- "Bishop Museum. Bulletin 190-192" exchange.
- "Exploring our national parks and monuments" by Devereux Butcher,
- "Geology in the museum" by North, Davidson, and Swinton, "A manual for history museums" by A. C. Parker, and "East is East and West is West" by C. E. Cummings, gift of Hawaii Natural History Association.

The first order of Library of Congress printed cards was received and the cataloging of the bound volumes was begun. During October cards were ordered for 213 titles and 66 analytics.

The librarian was in Honolulu October 22-26 to attend the fall meeting of the Hawaii Library Association. A brief report was made to the association on the activities of this library. A conference was held with Miss Delemare of the catalog department of the University of Hawaii library and much valuable advice received.

The material under the subjects Photography, Tourist folders, and Book notices was reexamined and much obsolete matter discarded.

23 items were accessioned, 131 titles and 21 added copies cataloged and classified: 62 with typed cards, 69 with L. C. printed cards, 475 cards were prepared for the catalog: 275 typed cards, 200 L. C. printed cards, 131 shelf list cards were typed, 110 items were marked and shelved.

*Superintendent
Finch R.H.
Powers*

Mary Melton
Mary Melton
Librarian

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

November 6, 1947

MEMORANDUM for the Superintendent.

Subject: Monthly Report for October, 1947 of Assistant to Superintendent
and Acting Park Engineer Benjamin F. Moomaw.

General

The greater portion of the month was spent on outside activities, as noted below. The new water system and a trip to Haleakala Section utilizing most of this time. Routine office duties account for the balance of the month.

Inspections

I left for Haleakala Section, with Ranger Hartesveldt at 9:30 A.M. 28th expecting to travel via Army plane, but due to a change in schedule no service planes were stopping at Maui on that date, we finally left via Navy LST arriving on Maui at 7:30 A.M. 29th.

After several business calls in Wailuku and Kahului we arrived at the Ranger Station at 12:30 P.M.

During the afternoon the area from the entrance to the summit was inspected and conferences were held jointly and separately with the District Ranger and the Concessioner.

At sunset the inspecting party, District Ranger Lindsay and his family left for the crater, after going down the Halemau trail and across the crater by moon light we arrived at Paliku at 1:00 A.M.

Inspection of all cabins and most of the trails were completed the 30th. Arriving at the Ranger Station at 5:00 P.M.

In my opinion the Concessioner has a very attractive set-up, and one that should pay off very satisfactorily when he and his organization gain more experience in this type of business.

The Service installations appeared (for the second time) better than I have ever seen them. Detailed report of this trip will be submitted separately.

Plans, Maps and Surveys

Foundation lines and levels for tanks 9, 10, 11, 12, 13, 14 were run and completed 13, and 14th.

New Construction

1-2, helped all hands during a general turn-out erect staves and place hoops on tank #6.

14th, same for #7 tank. 17-22nd, operated equipment during excavation, and compaction of foundations for the six tanks mentioned under Plans, Maps and Surveys.

Visitors

The Congressional Public Works Committee arrived on the Island of Hawaii the 15th. The undersigned was one of the welcoming committee that met the group at the Hilo airport showed them the Tidal Wave, and Flood damage, in and around Hilo, after luncheon at the Hilo Hotel and an inspection tour over the new breakwater the party drove to the Park for the night.

After dinner the Volcano Eruption movies were shown and the following morning all but one member of the committee joined in a park tour.

Building Fire Protection

16th. - The undersigned joined the Superintendent and General Foreman Quick in a conference and inspection of the water system by Representatives of the Insurance Rating Bureau in order to determine the new Fire Insurance rate for this area.

Public Health

The water system was chlorinated each time the pumps were in operation during the month.

Benjamin F. Moomaw,
Assistant to Supt.

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



November 1, 1947

Memorandum for the Superintendent:

Subject: Haleakala Section Monthly Report for the month of October, 1947.

The annual Maui County Fair was held again this month. The first time since 1941, and it attracted a large number of people from the other Islands and even the Mainland. As a result the traffic count to the Park practically doubled this month. The weekend of the Fair we had approximately 2000 visitors and over 400 cars.

Weather Conditions.

The weather in this section has been good during the month of October except for one day, the 25th., when we had 20.40 inches of rain and a very light snow on the slopes of Red Hill.

Two parties were in the crater during the rain and the one that came out walked through streams two feet deep in places.

The damage to the Park area was very slight. The Halemau Trail was washed a little and several large rocks and quite a lot of loose rocks and dirt was washed on the main road.

Two electric poles were hit by lightning and as a result we were practically without lights for about four days, when the Army fixed the line.

Maximum temperature75 degrees.
Minimum temperature41 degrees.
Rainfall total23.58 inches
Clear days26
Partly cloudy days 3
Cloudy days 1

Park Visitation.

Park visitation took a decided jump this month, due to the Maui County Fair. The actual number of visitors that registered at the summit for the month of October were 1720 against 920 for the month of September.

Number of animal days in the crater for the month were (105) of which 50 were from the Lodge and 55 were from the Park.

Special Activities.

An inspection of this section of the Park was made by the Assistant to the Superintendent Ben Moomaw accompanied by Ranger Dick Hartesveldt.

As it was Ranger Hartesveldt's first trip to the Island, we took him into the crater by moonlight the first evening, then Mr. Moomaw showed him around part of the Island on the third day.

Maintenance.

The Laborers spent most of their time on trail maintenance, and a few days on road maintenance, which consisted of clearing the road of rocks and dirt after the rain.

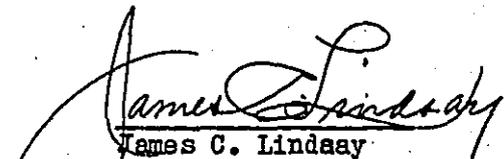
Ranger time was spent repairing the road into the rubbish dump, repair work to cars, painting new quarters, putting roofing paper on walls (outside) of new quarters, cleaning out of water intakes both in the crater and out, installing signs, installing Majic Eye road counter, patrolling the area, cleaning the Observation Station and the Road, acquiring of items from the Navy Base, and several trips into the Crater including a conducted tour with a party sent up from Pearl Harbor by Commander Muller.

Cooperating Government Agencies.

Capt. Ellis had a demilition man sent from Honolulu to dispose of the explosives that were in the Park. He also was able to get permission for the Lodge and the Park to install electric meters and use the power off the Army power line.

Wildlife.

32 goats and 4 pigs were destroyed during the month.


James C. Lindsay
Acting Ranger-in-Charge

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

November 3, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report of Ranger Activities for October, 1947.

Administration

The following reports were completed: Fire Hazard, Monthly Travel, and Monthly Report of Ranger Activities.

One letter was sent to Mr. B. Sumner requesting the dates and number of cattle that have been turned into the National Park since his last report.

Ranger Hartesveldt accompanied Assistant to Superintendent Ben Moomaw on a trip to Haleakala, leaving on October 28 and returning to Headquarters on October 31.

One inspection trip was made in the Hilina Pali - Puu Kapukapu section of the park.

Maintenance

About six man days were spent with the Maintenance Division on water tanks and carpenter shop construction.

Wardens Hauanio and McCall prepared the park animals for the goat drive, made changes on the pig trap and assisted the rangers in routine assignments.

Seven signs were installed in October.

Protection

Herbert Honma of 29 miles, Hawaii, was arrested for speeding on the Mamalahoa Highway by Superintendent Oberhansley on October 12th. He appeared before U. S. Commissioner Judge Harry Irwin and plead guilty. His drivers license was revoked for a period of one year in Hawaii National Park.

Harry Tanaka of Kona, Hawaii, admitted that his name was carved on one of the recently erected signs on the Chain of Craters road and that "it must have been done by one of the school children in his party while visiting the Park on or about September 1, 1947." Mr. Tanaka has agreed to restore the sign to its original condition and to bear the expense of transporting it back and forth.

Protection(cont'd)

Sylvia Uemoto, postal clerk at the Volcano House, was warned about speeding on October 28, 1947 by Assistant Naturalist Douglass Hubbard.

Lt. Jg. W. R. Emith and Ensign J. H. Bruce of the Coast Guard Base, Honolulu were warned about removing native vegetation on October 14 by the undersigned.

H. K. Aiona of Pahala, Hawaii was summoned before the Superintendent on October 23 and reprimanded for his conduct in the Park on the night of October 21, 1947.

Frequent patrols continued, and included seismograph changes and rain guage measurements.

Wildlife

The pig trap was altered slightly and although none have been caught to date the prospects for trapping some in the near future appear to be good.

Droppings, believed to be that of the native Hawaiian Goose (Nene) were found at Three Trees Kipuka earlier in the month by the Acting Chief Ranger. The Nene has not been observed in the Park since January, 1945.

Accompanied by Park Warden Hauanio and Ranger Hartesveldt a trip was made into the Hilina Pali - Puu Kapukapu country for the purpose of looking over the area for a staff goat drive. While at Hilina Pali it was observed that goats are being attracted to the salt blocks placed there by Ranger Hartesveldt. Numerous bands of goats were observed on this trip and at Puu Kapukapu seventeen were driven into the goat trap and eliminated. It is the opinion of the undersigned that a three man party can do some effective control work in this country. Thirty three goats were killed on this trip.

Ranger Hartesveldt made a reconnaissance trip to Pepeiau and reported seeing numerous goats. He also reported that the salt blocks show definite signs of use by feral goats.

On Sunday, October 26 members of the staff participated in a goat drive on Mauna Loa and succeeded in driving 47 goats into the trap at the end of the truck trail. Those participating were: Superintendent Oberhansley, Assistant to Supt. Moomaw, Acting Chief Ranger Cliff Davis, Ranger Hartesveldt, Naturalist Howard Powers, Assistant Naturalist Doug Hubbard, Chief Clerk Kenneth Kim, Instrument Maker Bert Loucks, Park Warden Hauanio, Storekeeper Norman Hickcox, Benjamin Hauanio, and two visitors, Messrs Thompson and Fry. This brought the total up to 131 goats destroyed during the month. ~~Five~~ pigs were also destroyed.

Building Fire Protection

(14 by Laine)

17 (10.25.47)

In connection with Fire Prevention Week one fire drill was held. Ranger Hartesveldt and Warden Hauanio inspected the residential area for fire hazards

Building Fire Protection (cont'd)

and reported that overhanging branches are barring some of the electric power lines.

The Monthly Volcano House Fire Hazard Inspection was made on October 31.

Miscellaneous

Registrants at the picnic grounds totaled as follows:

Bird Park	301
Namakani Paio	3
Summer Camp	<u>5</u>
	309

Travel count was made on the following days: Saturday, October 11, Sunday, October 19, and Friday, October 31. The night count was averaged on the basis of the previous four months.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Acting Chief Ranger.

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

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Respectfully submitted,

Clifton J. Davis,
Acting Chief Ranger.



Wild goats in corral at end of drive (p. 2)



Members of staff participating (p. 2)

10-23
(May 1929)
6-7410

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

FILE NO.

Superintendent's Narrative Report

September, 1947

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

October 10, 1947

Summary of September, 1947 6-page Narrative Report for
Hawaii National Park

Weather Conditions, p.1. Precipitation at Kilauea 6.64" and at Haleakala 4.04". Maximum and minimum temperatures at Kilauea were 77° and 49°.

Special Activities of Supt., pp. 1-2. Inspection trip to Honolulu of surplus pipe resulted in finding 6 to 8 miles of 6" and 8" pipe available. Met Congressman Lowell Stockman and Mrs. Stockman in Honolulu and arranged three day itinerary for them in Hawaii National Park. Participated in national broadcast on "Hawaii Calls" program, released to 475 stations on the mainland.

Research and Observation, p.2. Thirty-three earthquakes were recorded in Sept. on Mauna Loa and 20 at Kilauea.

Construction, p.2. Status of water storage tank construction.

Approaches to Park, p.3. Great concern felt over the erection of unsightly developments along the Hilo approach road close to Park entrance.

Wildlife, p.4. 25 goats and 9 pigs eliminated from Kilauea section during month.

Travel, p.4. Travel to Kilauea totalled 50,351. To the Haleakala section it was 2,032.

Interpretation, p.5. Besides regularly scheduled program for the month, talks illustrated by movies of Hawaiian volcanic activity were given to Lt. General Redenoyer and his Aides, to the Hilo Outing Club, Hilo Kiwanis Club, and the Olaa Y's Men.

Cooperating Non-Government Agencies, p.5. Conference was had with Mr. Richard Baldwin owner of the land proposed for new Haleakala headquarters site. Mr. Baldwin willing to exchange this land for territorial land on basis of comparative values.

Visitors, p.6.

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File

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

October 10, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of September, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 77° and 49°. At Haleakala ranger station these recordings were 75 and 41. Total rainfall at Kilauea was 6.64" and at Haleakala 4.04".

General

Daily inspections were made of all work projects and satisfactory progress has been made. We received \$10,600 to erect storage water tanks. If we were to duplicate today the work accomplished by this fund, it could not be accomplished for less than approximately \$75,000. The saving represented was effected through prompt action in procuring materials, supplies, and assistance from the Army and Navy, which is not now available. It is hoped funds will be made available to complete this project prior to the December rainy season.

Special Activities of Superintendent

September 7 Superintendent and Mrs. Oberhansley attended a reception and dinner at Kilauea Military Camp given in honor of Lt. General Wedemeyer and his aides, including Rear Admiral Carl A. Traxel, Director Pacific Division Bureau of Yards and Docks; Mark Watson, War Department; Melville Walker, State Dept., David Jenkins, Treasury Dept., and Philip Sprouse, State Dept. The General and his party spent a week at KMC preparing a report of their expedition to China for President Truman.

September 9 a trip was made to Honolulu for purpose of inspecting surplus property and to determine the quantity of 6" and 8" pipe that might be available to us in the event that it was determined to bring in water from an outside source at some future date. Six to eight miles of 6" and 8" pipe were located in Base Yards 17 and 26 and although this pipe was slated for shipment to Korea, it undoubtedly could be diverted here if desired.

September 10 in company with Delegate Farrington the Superintendent went aboard the Masonia off-shore to greet Congressman Lowell Stockman and Mrs. Stockman of Oregon to assist in arranging their itinerary that would include a three day visit to Hawaii National Park.

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September 11-15 was devoted to an inspection of the Haleakala section of the park and to assisting the concessioner there in solving some problems of his operations.

September 15 the Stockmans and Delegate Farrington were met at Puunohi airfield on Maui and taken to the Haleakala section where they enjoyed the magnificent views along the rim of the crater. Thirty-six prominent business men and professional men on Maui were invited to join our party at luncheon at the Haleakala Mountain Lodge, where appropriate talks were given by our distinguished guests. Later that afternoon the visiting party left Maui for Hilo en route to the headquarters section of the park. The following day the guests were taken completely around the park, including a hike through Bird Park, and in the evening a special dinner was held in their honor at the Volcano House to which 40 park friends and their wives from surrounding communities were invited.

September 17-18 devoted to taking the guests on an around-the-island tour, stopping at the various points of interest.

September 19 a recording was made at the Volcano House for a national broadcast on the "Hawaii Calls" program, and the following day a national direct broadcast was participated in at the Hilo hotel, released through 475 stations on the mainland.

Research and Observation

As in the preceding month, earthquakes of Kilauea origin predominated during the first half of the month. In the latter half of the month Mauna Loa shakes predominated. For the month as a whole 33 earthquakes were recorded on the Mauna Loa seismograph and 20 at Kilauea. Many of the Mauna Loa earthquakes appear to have been due to superficial working of the northeast rift. The two perceptible earthquakes that occurred during the month indicate uneasiness along the fundamental rift over which the island is located. The first quake which occurred at 5:50 September 21 originated at a depth of 20-25 miles below the Mauna Loa-Mauna Kea saddle. It was widely felt on this island and by a few people on Maui. The second occurred at 4:05 September 30. It originated at a depth of 8-10 miles about 7 miles southeast of Halemauau, and was strong enough to awaken aleopars over most of the eastern part of the island.

Normal northeasterly tilt obtained during the month. A few of the cracks around Halemauau opened slightly.

Construction

The water system construction progressed satisfactorily. Three foundation slabs were poured on the 2nd and a small crew remained on the job throughout the month. They completed the installation of mud sills, chine joists, and bottoms of all three and then erected the staves of one tank by the 30th. If good weather holds throughout October, all eight tanks erected by our \$10,600 grant will be in use by the end of that month.

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Maintenance

Quarters No. 26 completely rehabilitated during the month; new metal linings installed in gutters of the Observatory building; striping of Mamalahoe Highway from the Hilo Entrance past KEO was accomplished, and miscellaneous shoulder reshaping done on that highway. Foreman Quick made an inspection trip to Haleakala section and made trip through the crater. Found work was progressing very satisfactorily on the Haleakala trail, that project being 50% completed to date.

Surplus Property

Conservatively speaking, \$15,000 worth of miscellaneous building materials and supplies were obtained without exchange of funds from the Navy during their closing out of the naval air station in Hilo.

Approaches to the Park

The fern-ohia forests lining the road sides adjacent to the Hilo Entrance to the park are fast disappearing as clearings are being made for the erection of unsightly developments along this road. Survey for reconstruction of the Hilo approach road has reached the vicinity of Mountain View and a special memorandum has already been forwarded requesting that a restudy of our road problems be made in view of this major construction now underway and its ultimate effect upon circulation within the park.

Inspections

September 24 Mr. H. F. La Grane, Engineer from Public Roads Administration, Honolulu, made a complete inspection of park roads in connection with preparation of their annual report.

Ranger Service

The Acting Chief Ranger made several field trips in conjunction with the annual animal census report, and Ranger Hartesvoldt spent several days in the Hilina Pali country making reconnaissance studies on feral goats. He observed about 700 goats and reported that overgrazing is causing gully and sheet erosion. Special report has been submitted on this.

Forty-two trail, roadside and miscellaneous redwood routed signs (carved) were erected by the ranger and maintenance divisions, as follows:

Road Information	14	Precautionary	2
Trail Information	7	Others	
Comfort Stations	5	Craters & Lava Tube	7
Entrance	2	Utility & Res. Area	5 - Total 42

Frequent patrols were made and included seismograph changes and rain gauge measurements.

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Wildlife

September 6 the Superintendent and Naturalist Hubbard disposed of six wild pigs - three in the vicinity of Thurston Lava Tube and three along the Chain of Craters road. Pig damage is becoming increasingly evident in several of the heavily forested sections of the park and more intensive control measures will have to be instituted in the near future. It is planned to experiment with baited traps, using goat carcasses for bait.

25 goats and 9 pigs were eliminated from the park during the month.

Building Fire Protection

The quarterly fire and sanitation inspection was completed and reported separately.

A surprise fire drill was held for the park staff on the 19th. Mobilization of fire suppression units proceeded satisfactorily. The Kilauea Military Camp fire department arrived in good time after hearing our siren. A fire drill was also held for the Volcano House staff on the 25th and was well attended.

Fourteen CO₂ extinguishers were acquired from the Navy. These extinguishers will improve building and equipment protection considerably.

The monthly Volcano House fire hazard inspection was made on the 30th.

Concessioners

Since it was necessary to lay off at the Kilauea section six laborers, it thereby became possible for us by placing these men on the Volcano House pay roll to have its unightly cottages and dormitory repainted and the roof stained an appropriate shade of green, thus partially eliminating these eye sores by making them less conspicuous. This also made possible the reconstruction of the fire-escape platform and stairway at the Volcano House which had become badly decayed, to replace all broken screens around the kitchen, and to rat-proof and fly-proof the vegetable storage room.

Publicity

All papers in the islands gave considerable space to Hawaii National Park and the Stockman's visit here and the many favorable comments they had to make concerning their visit to both sections of the park. Managing Editor Vern Hinkley of the Honolulu Star-Bulletin spent 17 days in the park during the month, and contributed a series of seven fine articles on the park.

Travel

Travel to Kilauea section was considerably higher than the previous month, totalling 50,351. To the Haleakala section it was somewhat less than the preceding month, totalling 2,032.

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Interpretation

The two Park Naturalists were on duty at Kilauea throughout the month, except for a five day orientation trip which took Naturalist Hubbard to the Haleakala section on Maui.

Besides the regularly scheduled program for the month, talks illustrated by movies of Hawaiian volcanic activity were given to Lt. General Wedemeyer and his party, to the Hilo Outing Club, the Hilo Kiwanis Club, and the Glen Y's Men.

Record photographs and triangulation notes were completed of the present floor of Halemauuan to supply data for an up-to-date map of the pit for reference at such time as new activity buries the present topography. A start was made on the accumulation of photographic and topographic data required for a study of the present distribution of relics of the mantle of explosive debris from the 1924 steam blast eruption of Kilauea. Selection and preparation of suitable photographs were completed to illustrate the detailed study of Kilauea explosive eruptions now being finally drafted.

Cooperating Non-Government Agencies

Since no satisfactory arrangement could be made with the Maui Electric Company to supply current at a reasonable rate, the operator of the Haleakala Mountain Lodge has been generating power with the Diesel plant formerly used by the army at that site. Since this undoubtedly will prove to be unsatisfactory on a continuing basis, a conference was held with Capt. Ellis, Army Officer in charge of Maui, and concessioner von Tempky in an attempt to reach an agreement whereby the concessioner, the National Park Service and the army can all be supplied with electric current through the army line to Red Hill, and appropriate charges be made through the installation of separate meters for each operation. We secured the necessary meters from KEC without charge and hope that a satisfactory arrangement will be made within the next week or two.

While at Haleakala an investigation was made of the proposed new headquarters site in company with Mr. Richard Baldwin, owner of the land involved. The site which we have proposed is situated at an altitude of approximately 4,000 feet and had been scheduled for sale as house lots at prices ranging from \$500 to \$800 each. Mr. Baldwin is willing to exchange this land for territorial land presently assessed at \$12.50 per acre on the basis of comparative values. Since the members of this Service who have inspected the Haleakala section are in agreement that the new proposed headquarters site is desirable, we hope that a satisfactory exchange can be arranged and the boundary proposal for the Haleakala section submitted earlier may receive favorable consideration.

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Library

The third monthly report of the Librarian indicates much progress made during the month, with 426 items accessioned, 180 titles and 46 added copies cataloged and classified, 569 cards prepared for the catalog and 180 shelf list cards typed. 226 items were marked and shelved.

Insects

An insect, *Aphis heliochrysi* Kalt, collected on *Hailandia* sp. at about 9,000 feet elevation, Haleakala, on March 29, 1946, is believed to be a new insect record for Hawaii. It was identified by Professor E. O. Essig.

Visitors

Governor Steinbeck
Delegate Joseph Farrington
Mr. Modesto Farolan, Consul General of the Philippines
Mr. Andrew R. McKelvie, District Manager, Philippine Airlines
Mr. Filadelfo S. Rojas, President of an Express Company in Philippines
Mr. Harry F. La Grane, Engineer, Public Roads Administration
Congressman and Mrs. Lowell Stockman, of Oregon
Lt. General Albert Wedemeyer and his Aides
Rear Admiral Carl A. Truxel, Director Pac. Div. Bureau of Yards & Docks,
Erick Watson, War Department
Melville Walker, State Department
David Jenkins, Treasury Department
Philip Sprouse, State Department
General John E. Hull and Mrs. Hull, Commander Mid-Pac.

Frank R. Oberhansley,
Superintendent.

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

October 1, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report of Ranger Activities for September, 1947

Administration

The Acting Chief Ranger devoted some time to organizational details and completed the following: Fire Hazard Report, Animal Census Report, Annual Travel Report, Monthly Travel Report, and one Accident Report.

One inspection trip over the Pit Craters trail route was made.

Maintenance

Forty four trail, roadside and miscellaneous signs were erected by the Ranger and Maintenance Divisions. Some improvement in the Sulfur Bank Area has been noted as a result of the sign placed there.

The koa plots, Kipuka Ki paddock fence lines, Bird Park fence lines and the north boundary fence lines were checked by Wardens McCall and Hauanio. It was disclosed that a small section of the 100 acre Koa plot was down and twelve or more cattle were in this area. Mr. B. Summer of Kapapala Ranch was notified and prompt action was taken. The north boundary line was also found to be in need of repair and Ranch foreman Tom Lindsay of the Shipman Ranch was duly notified. In addition, the Wardens spent some time shoeing Park animals, assisted the rangers in marking trails, performed telephone and line maintenance work, planted ferns on undesirable trails at the Lava Tube and constructed a fire place at Kipuka Nene.

Pursuant to orders from the Superintendent, the feeding of Park animals has been discontinued.

Ranger Hartesveldt brushed out part of the trail to Napau Crater.

Visitors

Mr. Modesto Farolan, Consul General of the Philippines, Andrew R. McKelvie, District Manager of the Philippine Airlines and Mr. Filadelfo S. Rojas, President of an Express Concern in the Philippines were Park visitors on September 24th. They were shown around the park by the undersigned and were warm in their praise of Hawaii National Park.

Protection

Ranger Hartesveldt has been following up on visitor carving on newly erected signs.

There were no arrests this month but several people were warned about minor infractions of the rules and regulations.

Frequent patrols were made and included seismograph changes and rain gauge measurements.

Wildlife

Ranger Hartesveldt spent several days in the Hilina Pali country making reconnaissance studies on feral goats. He observed about 700 goats and reported that overgrazing is causing gully and sheet erosion. (See report dated September 29).

The Acting Chief Ranger made several field trips in conjunction with the Annual Animal Census Report.

Pigs have been very active in the Chain of Craters Region and some control measures have been necessary.

Twenty five goats and nine pigs were eliminated during the month. 25
9

Building Fire Protection

The Quarterly Fire and Sanitation Inspection was completed and is reported separately.

A surprise fire drill was held for the Park staff on September 19th. Mobilization of fire suppression units proceeded satisfactorily. The Kilauea Military Camp fire department arrived in good time after hearing our siren. A fire drill was also held for the Hotel staff on September 25 and was well attended.

About fourteen CO₂ extinguishers were acquired from the Navy. These extinguishers will improve building and equipment protection considerably.

The monthly Volcano House Fire Hazard Inspection was made on September 30th.

Insects

An insect, Aphis helichrysi Kalt, collected on Raillardia sp. at about 9000 feet elevation, Haleakala, on March 29, 1946 is believed to be a new insect record for Hawaii. It was identified by Professor E. O. Essig.

Accidents

There were two accidents involving vehicles that occurred during the month.

On September 24th 1947 a jeep traveling east on the Mamalahoa Highway was struck by a west bound truck. Personal injuries were sustained by Lt. Alfred Evangelista, operator of the jeep and a passenger, Agapito Sumarnap in the same vehicle.

On September 29 a blowout caused the operator (T. Murakami) to lose control of his car, a Chevrolet sedan on the Mamalahoa Highway near the stone crusher. The car travelled about 200 yards before going down the embankment on the north side of the highway. There were no personal injuries and only slight damage was sustained by the car.

Miscellaneous

Registrants at the picnic grounds totaled as follows:

Bird Park	169
Namakani Paio	0
Summer Camp	<u>39</u>
	208

Respectfully submitted,

Cliffon J. Davis
Cliffon J. Davis,
Acting Chief Ranger.

CORRECTION

THE PRECEDING DOCUMENT(S) HAS
BEEN REPHOTOGRAPHED TO ASSURE
LEGIBILITY
SEE FRAME(S)
IMMEDIATELY FOLLOWING

Wjzou/oues

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

October 6, 1947

MEMORANDUM for the Superintendent.

Subject: Monthly Report from Assistant to Superintendent and Acting
Park Engineer B. F. Moomaw for September, 1947.

General

Except as noted below the whole month was spent on routine Administrative and Engineering duties.

Special Activities

15th-18th. These four days were spent with Congressman and Mrs. Lowell Stockman of Pendleton, Oregon and Delegate Joseph Farrington of Honolulu during their inspection tour of Hawaii. On the 16th a trip was made to Hilo with Mr. Farrington and from there we drove to Kalapana where we met the main party for an inspection trip of the proposed Coastal Strip. The 17th and 18th were taken up with a trip to Kona. This was subject of a special report.

During the General Foreman's duty on Maui 25-29 the undersigned handled the road and other labor crews.

Inspections

Mr. H. F. LeGrone, PRA engineer arrived on the 24th for the annual Road Maintenance Inspection.

Messrs Oberhansley, Quick and Moomaw accompanied Mr. LeGrone during the A.M. and the inspection was completed in the P.M. by LeGrone and Moomaw only.

Mr. LeGrone left on the 25th to inspect Territorial Roads on this island.

Plans, Maps and Surveys

The Survey of Government Buildings (Individual Building Survey Report) used by Concessioners was compiled 9-11 and mailed on the 12th. This survey was compiled in accordance with the instructions received in July from the Director.

The P.C.P. was revised in compliance with Region IV memorandum #500-30 August 25, 1947 and mailed on the 22nd.

New Construction

The water system construction progressed satisfactorily, three foundation slabs were poured on the 2nd and a small crew remained on the job throughout the month. They completed the installation of Mud Sills, Chine Joists and bottoms of all three and then erected the staves of one tank by the 30th. If good weather holds throughout October all eight tanks erected by our \$10600.00 grant will be in use by the end of this month.

Public Health

The water was chlorinated during pumping operations on 3, 8, 26 and 29th.


Benjamin F. Mognaw,
Assistant to Supt.

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

October 3, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for September.

As in the preceding month, earthquakes of Kilauea origin predominated during the first half of the month. In the latter half of the month Mauna Loa shakes predominated. For the month as a whole 53 earthquakes were recorded on the Mauna Loa seismograph and 20 at Kilauea. Many of the Mauna Loa earthquakes appear to have been due to superficial working of the northeast rift. The two perceptible earthquakes that occurred during the month indicate uneasiness along the fundamental rift over which the island is located. The first quake which occurred at 5:50 September 21 originated at a depth of 20-25 miles below the Mauna Loa-Mauna Kea saddle. It was widely felt on this island and by a few people on Maui. The second occurred at 4:05 September 30. It originated at a depth of 8-10 miles about 7 miles southeast of Halemaumau, and was strong enough to awaken sleepers over most of the eastern part of the island.

Normal northeasterly tilt obtained during the month.

A few of the cracks around Halemaumau opened slightly.

Work of R. H. Finch

In addition to attending to routine correspondence and seismological work the article portion of the Volcano Letter was completed.

Work of B. J. Loucks

In addition to assisting in ordinary Observatory routine, he spent two days on special jobs for Mr. Quick. His other principal jobs were on mechanical clocks and parts for seismographs.

R. H. Finch
Ruy H. Finch,
Volcanologist.

Third monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for September, 1947.

The cataloging of the material in the library is progressing with the subjects Astronomy, Australites, Physical geography, and a portion of Volcanoes and Geology completed. The library now has a card catalog of two partially filled catalog trays. A copy of the A. L. A. Catalog Rules has been loaned to the librarian by Miss M. Ruth MacDonald, chief of the catalog department of the Army Medical Library, Washington, D. C.

During the month of September the library received the following items by exchange and gift:

- "Index to Hawaiian Annual" by Margaret Titcomb and Anita Ames, from the Bishop Museum.
- "Index catalogue of epicentres for 1931-1935" by Ethel F. Bellamy, and the "International seismological summary for 1935", from Oxford University Observatory.
- "A criticism of Graton's 'Conjecture regarding volcanic heat'" by R. H. Finch, gift of the author.
- Mary Melton*

Several numbers of the Volcano Letter, Monthly Bulletin, and Special Reports of the Observatory were returned to the library by the University of Hawaii Library. These were most welcomed as the Observatory's supply of several of the numbers is almost exhausted.

Nos. 455-493 of the Volcano Letter were sent to the library of the Kamehameha School for Boys.

Because of the great expense of new pamphlet boxes, it has been decided to use the boxes on hand. Time was spent on cleaning, strengthening and relabeling 60 of these boxes. It is hoped that when all are finished the library will present a much neater appearance.

The following publications are currently received by the library:

- Exchange: Bishop museum publications
Chicago natural history museum. Publications on geology
Geologie en Mynbouw
Instituto español da oceanografia. Notas y resúmenes
The Military engineer
New Zealand journal of science and technology.
Paradise of the Pacific
Royal society of New Zealand. Transactions and proceedings
Scientific American.
Washington state college. Research studies.
- Gift: American geophysical union. Transactions. R. H. Finch
Du Pont magazine. Publisher
Geological society of America. Bulletin. R. H. Finch
Hawaiian planter's record. H. S. P. A.
Science. R. H. Finch

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- New Zealand journal of science and technology.
- Paradise of the Pacific
- Royal society of New Zealand. Transactions and proceedings
- Scientific American.
- Washington state college. Research studies.
- Gift: American geophysical union. Transactions. R. H. Finch
- Du Pont magazine. Publisher
- Geological society of America. Bulletin. R. H. Finch
- Hawaiian planter's record. H. S. P. A.
- Science. R. H. Finch

Third monthly report. (Continued)

Gift: Scientific monthly. H. A. Powers
Seismological society of America. Bulletin. R. H. Finch
Yellowstone nature notes. Yellowstone National Park
Yosemite nature notes. Yosemite National Park

Subscription: American journal of science
Biological abstracts: Section D - Plant sciences
Instruments
Journal of geology
Pacific science

426 items were accessioned, 180 titles and 46 added copies cataloged and classified, 569 cards prepared for the catalog and 180 shelf list cards typed. 226 items were marked and shelved.

Mary Melton
Mary Melton, Librarian

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



HALEAKALA SECTION

2351.20
Haleakala business

October 1, 1947

MEMORANDUM for the Superintendent.

Subject: Haleakala Section Monthly Report for September, 1947.

Weather Conditions

The weather in this section has been good during September. Four days of rain were experienced on the 3rd, 4th, 22nd and 23rd which helped to fill the water tanks. The entire mountain or Park area presents a nice green appearance.

Maximum temperature	75 degrees
Minimum temperature	41 "
Rainfall total	4.04 inches
Clear days	22
Partly cloudy days	6
Cloudy	2

Park Visitation

Park visitation was normal throughout the month. Actual number of visitors that registered at the summit from July 24 - September 30 were 2849.

The number registered for the month of September ^{WAS} ~~were~~ 920.

Number of casual visitors at the Lodge to date *about 900 -*

Number of registered guests at Lodge to date

99.54 - 107 lodgings

Number of animal days in the crater 34 - (Lodge 22 - Park 12) -

Special Activities

An inspection of this section of the Park was made by Superintendent Oberhansley, Foreman Quick and Assistant Naturalist Hubbard.

Maintenance

Laborers worked on trail maintenance the entire month.

Ranger time was spent on two patrols into the Crater, daily patrols to the Summit, cleaning buildings and picking up rubbish in the area, checking water tanks, shoeing the Park mules, removing old toilet building at the base camp, acquiring things from the Navy and installing new signs in the Park.

Ranger Medeiros reported that the goat damage to the Mamani trees in the crater was very great. That the goats had eaten all the leaves within reach and were now eating the bark and thus killing the trees.

On my trip into the crater I observed the same thing and saw flocks of goats as large as 200 at a time.

Cooperating Government Agencies

Mr. Oberhansley contacted Captain Ellis about installing a meter at the Lodge and Park so both the Lodge and Park could continue to use the Maui Electric current. Captain Ellis has taken it up with his Honolulu office and is now waiting for the Commanding General's approval which he expects very soon.

Visitors

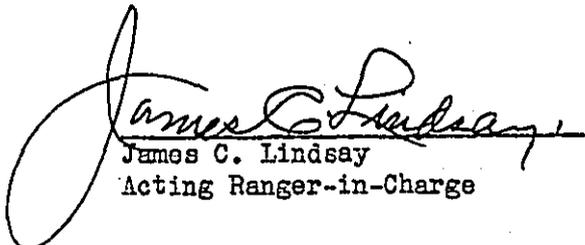
Congressman and Mrs. Stockman
Superintendent Oberhansley
Assistant Naturalist Hubbard
Foreman Quick
Lt. General and Mrs. Hull

Interpretive Service

Two Sunrise talks were given at the Observation Station. Slides were shown three different nights at the Lodge to a total of about 50 people. Slides and an informal talk was given to the D.A.R. (women's club) *give numbers & time -*

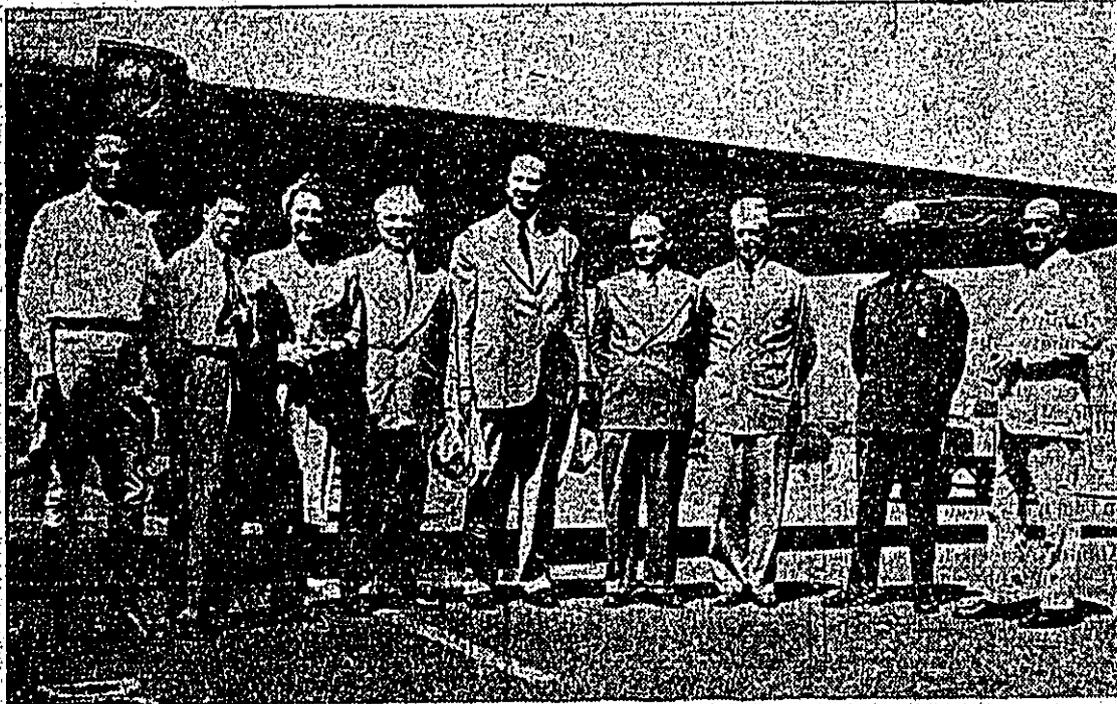
Wildlife

28 goats and 3 pigs were destroyed during the month.


James C. Lindsay
Acting Ranger-in-Charge

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Delegat, Party Are Visitors



FARRINGTON PARTY AND GREETERS — Pictured at the airport is Delegate Farrington's party and those that greeted them. (Left to right) Arthur Woolaway, representing the Maui GOP; Ezra J. Crane; Mrs. Lowell Stockman; Farrington; Rep. Lowell Stockwell; Frank Oberhansley, superintendent of Hawaii National Park; R. G. von Tempsky; James Lindsey, Haleakala HNP ranger in charge; and Robert Thompson, Honolulu landscape architect.

Inside information to the effect that the House of Representatives in Washington would probably not have voted in favor of statehood for Hawaii during the last session if had not been for the individual efforts of Hawaii's Delegate to Congress, Joseph R. Farrington, was given a party of 36 Mauians at a luncheon held at the Haleakala Mountain Lodge Monday.

This was the statement of Republican representative Lowell Stockman of Pendleton, Oregon, who is on a tour of the Islands with Mrs. Stockman. Rep. Stockman was among those who voted for statehood.

Rep. and Mrs. Stockman, accompanied by Frank Oberhansley, superintendent of Hawaii National Park and Delegate Farrington Monday morning. They were greeted by Ezra J. Crane, general manager of the Maui Publishing Company; Ltd. Arthur Woolaway, representing the local Republican organization; and James Lindsey, ranger in charge of the Haleakala Section of Hawaii National Park, and Robert G. "Boy" von Tempsky, operator of Haleakala Mountain Lodge. Rep. Stockman is a member of the house committee on appropriations, and a member of the subcommittee of the Department of the Interior, which is in charge

(Continued on Page Three)

RECEIVED AS FOLLOWS

- Don Juan Green Olives, 7 1/2 oz. 49c
- Fillet of Anchovies, 2 oz. 31c
- Walla Walla Peas, 2's 18c
- Mione Boned Chicken, 7 oz. 89c
- Campbell Green Pea Soup, 1's 16c
- Hygrade Vienna Sausages, 28 oz. 60c
- Folger's Tea, 1/4 lb. 2 for 35c
- Flotill Sliced Peaches, 2 1/2's 18c
- Heinz Cooked Spaghetti, 6 oz. 2 for 45c
- C.H.B. Sweet Mixed Pickles, 8 oz. 25c

PUUNENE STORE — Kahului
 CAMP ONE STORE — Spreckelsville

the sentence was suspended for 13 months. Emiliano Rodriguez, absent on a charge of reckless and heedless driving, was fined \$25 and his driver's license suspended for six months. He was also fined \$10 for malicious injury for damage to a police officer's car. Leon Yabez, Wailuku, was fined \$10 on a charge of drunkenness.

PRESSMAN INJURED
 William Correa, pressman of The Maui News, was injured Tuesday when he crushed his foot while repairing the newspaper press. Correa is hobbling about but was not seriously injured.

MAUI DRUG
 EARL NAITO, Prop.
 Phone 4035 Wailuku

President
 M. H. KITAOKA
 Secretary

MAUI SHRINE CLUB
 The Maui Shrine Club will hold its regular business meeting on Thursday, Sept. 18 at the Maui Country Club at 6:00 p.m. Dinner and Dance. All visiting Shriners are urged to attend.
 F. E. SKINNER
 President
 W. A. CLARK
 Secretary

Andrew King Post No. 3850

VFW
 The Veterans of Foreign Wars

Meetings at the former Maui Tropics Building at 7 p.m. 2nd and 4th Thursdays. Phone 23183.
 All service men and civilians who are eligible are invited to join this post. For application contact Johnny Alexander, Post Quartermaster, Mondays, Wednesdays and Fridays at VFW Clubhouse between 6:00 and 8:00 p.m.

RECEIVED AS FOLLOWS

MAUI NEWS, WEDNESDAY, SEPTEMBER 17, 1947

Delegate Farrington, Oregon Congressman Visits On Maui

(Continued From Page 1)

of national parks. The party was taken on a trip to Haleakala Crater and then stopped at the new Haleakala Mountain Lodge where they were met by the group of Maui business and civic leaders.

Delegate Farrington introduced Rep. and Mrs. Stockman and told of the committee Stockman serves on, and the fact that the five-foot, five-inch, 260-pound member of congress was a wheat farmer who farms 3,200 acres in Eastern Oregon.

Congressman Stockman said, "We are on a delayed action honeymoon of 23 years. Twenty-four years ago when I was courting Mrs. Stockman I told her that if she took me on as a liability I would take her to the Hawaiian Islands, here we are 23 years later."

"Since we have been here our trip has been one of constant surprise. We had envisioned Hawaii

as a group of flat islands and were greatly surprised on coming here to see verdant mountains. Hawaii has been a constant revelation to us.

"You may not have noticed it, but Hawaii has one thing in common to Washington, D.C. Most everyone you meet in Washington or Hawaii comes from some one of the 48 states originally or somewhere else."

"I am going to give you the lowdown on something that took place in Washington a few weeks ago. You all know that the House of Representatives, of which I am a member, had before it a bill to give Hawaii Statehood. It was passed by the house by a substantial vote."

"I don't think it would have passed if it hadn't been for the untiring efforts of Joe Farrington. The five years Joe has put in working for Statehood for Hawaii really paid off with his fellow members of the house."

"The bill now has to hurdle the senate, where I hesitate to predict its outcome."

"The senate is composed in a different manner than is the house. From a political angle, Alaska enters into Hawaii's statehood picture in the senate."

"While Alaska has only 80 or 90 thousand people and does not have the economic development of the Islands, the fact of whether it should be a Democratic or Republican stronghold might enter the picture."

"I sincerely believe that every congressman should get out and visit our great country so that they know and see the places they are passing funds for."

Mt. Oberhansley acted as toastmaster for the luncheon while von Tempsky told about the mountain lodge, explaining that they had entertained 700 visitors during the first month of operations.

The visiting party departed for the Big Island at 2:25 p.m. Monday.

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MAUI NEWS, WEDNESDAY, SEPTEMBER 17, 1947

Ducks Remain Unbeaten Series; Cubs Down

KRR Wins, 6-3; MAAA Blows Lead

Ducks Score Five Runs In Last Two Innings Of Drawn-Out Game

Four MAAA errors in the last two innings gave Kahului Railroad Company five unearned runs as the Ducks, maintaining a perfect two-game record in defense of the L. A. (Chu) Baldwin Memorial trophy, came from behind to defeat the Pirates by 6-3 in a nightcap of the round-robin series doubleheader at the Kahului Fairgrounds last Sunday.

The Pirates blew a 3-1 lead when they committed three errors in the top half of the eighth inning, enabling the Ducks to score three times and go out front by 4-3.

The Ducks started off by loading the bases on a walk to Tatsujimoto, Norman Ignacio's wild throw to first base on Hijiri's bunt down the third base line, and first baseman Eddie Lopez' error on a peg from pitcher Gilbert Gonzado. Pat Kaya gained life on the misplay.

Yuichi Yamamoto forced Fujimoto at the plate, Gonzado, catcher Louis Fernandez, with the bases still clogged, clean-batter Shigeo Wakayama hit a 2-2 pitch for a clean single between Lopes and second baseman David Souza. Rightfielder Ernie Abreu of the Pirates came fast to field the grounder, but the ball went through his glove.

Ducks And Cardinals Meet At Kahului Sunday Morning

Final scheduled games in the 1947 round-robin series of the Maui Baseball League will be played at the Kahului Fairgrounds on Sunday, preceding the horse races in the afternoon, according to the announcement made Monday by H. B. Peterso of the baseball committee.

Kahului Railroad's Ducks, unbeaten in two starts, will face the Walluku Cardinals at 11 a.m. A victory will give the Ducks the L. A. (Chu) Baldwin Memorial trophy.





Fall

Among the distinguished visitors to the park and to KMC in September was Lt. Gen. Albert C. Wedemeyer and his Aides who stopped at KMC a week preparing report of their survey in China for President Truman. The General and his party enjoyed the guide service and lectures presented by Naturalists Powers and Hubbard. General Wedemeyer is third from left.



~~GENERAL~~

~~at Volcano House~~

Broadcast from Hilo hotel

10-23
(May 1920)

6-7410

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

FILE NO.

Superintendent's Narrative Report

August, 1947

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

13966
JRD
September 9, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of August, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 50°. At Haleakala ranger station these recordings were 78 and 42. Total rainfall at Kilauea 7.70" and at Haleakala 3.49".

Special Activities

Daily inspections were made and progress records kept on work projects. The new water system has progressed to the point where we have reason to be far more optimistic regarding collection, storage and distribution of water than was the case last year at this time when total storage in government and concessioner tanks amounted to approximately 200,000 gallons. Four fifths of this was at the CCC Camp, 4000 feet removed from the park reservoir, with no pipe on hand to make the necessary connection. Today we have completed the erection of five new 100,000 gallon redwood tanks, completed over 2300 feet of 6" pressure line, with fire hydrants installed, and have so increased the efficiency of our collection system that we now have approximately 1,000,000 gallons of water in storage. Fire fighting facilities are now standard and a representative of the Insurance Company which insures the concessioner visited the park to determine what reduction in rate could be made in view of increased protection.

The Superintendent was a member of the Aloha Committee which greeted the personnel of the battleship IOWA in Hilo Bay August 7. The following day he conducted two caravans of busses carrying 500 officers, midshipmen and sailors through the park. A guest on the IOWA was Dr. Clyde Alpin, President of the University of Utah, who was a former classmate of the Superintendent and a guest at his quarters for two days.

August 9 and 10 were devoted to conferences and field trips with Director William E. Wrather, Director of Basic Research Ladd, and Dr. Macdonald of the United States Geological Survey. All seemed keenly interested in reestablishing a basic research program in volcanology in the park to coordinate with their broader Pacific research program, which we have endorsed in previous memoranda.

August 12 and 13 conferences were held with army officials regarding a permanent water supply for the park. Col. Artell, Utility and Repair Officer on General Hull's staff, is opposed to the idea of expending funds other than to extend the present collection and storage system at K.M.C. Col. A. L. Lane, Chief Engineering Officer on General Hull's staff, is Col. Artell's superior

RECEIVED AS FOLLOWS

officer and looks to him for advice on the water system but stated he would be glad to detail one of their engineers to a cooperative study of the whole problem with Mr. Monteith if he is assigned here to investigate the possibilities of providing a more permanent system. Assignments of commanding officers at KMC are too transitory for them to become very much interested in long range plans. It is also contended by army officials that materials, particularly pipe, is non-existent in surplus stock piles in the Territory.

August 13 to 15 the Superintendent attended opening ceremonies of the concession in the Haleakala section of the park. A program was broadcast over the Aloha network from the lodge after a fine steak dinner, which was a sample of what the concessioner now features. Many prominent people of the Territory were overnight guests of the lodge and some of them were conducted on a two-day horseback trip through the crater.

August 26 Secretary of U. S. Department of Agriculture Clinton Anderson and his party were shown some phases of park operations. They were particularly interested in seeing seismograph installations.

Lt. Col. Carl S. Thornberg arrived to replace Lt. Col. Warren L. King as Executive Officer at KMC, transfer to become effective in mid-September. Col. James E. Ware, C. O. at KMC, expects to be replaced with the next three months. Army policy is to limit service at the Camp to approximately one year, which upsets continuity of planning long range programs.

Research and Observation

Conspicuous fume clouds were observed over Mokuaweoweo on several afternoons during August. From the rim of Mokuaweoweo the fume appeared dense and bluish. It arose from a crack over a quarter of a mile long NE of the 1940 cone. For the first time in several months, the number of earthquakes recorded at Kilauea exceeded those recorded at Mauna Loa, or 40 and 39 respectively. Earthquakes of Mauna Loa predominated during the first half of the month and at Kilauea in the latter half. Three of the quakes were perceptible at park headquarters. There was an accumulation of NNE tilt during the month with a conspicuous northerly tilt during the last few days. A few of the cracks around Halemauuan opened slightly. Other measured cracks showed no movement.

Construction

The water system job progressed very satisfactorily until the last week of the month when we were hampered by rain. The pipe line is virtually completed and in use except for two connections. The new pump installation is complete with a new "Blue Streak" 110 h.p. engine coupled directly to the 500 GPM 289 ft. head pump from the Volcano House system. This engine was given us by the Navy without value but under authority of P.L. 478. Preliminary tests, pumping through 1300 ft. of 6" new CI pipe and 1600 ft. of (6 to 20 years old) 4" CI pipe, are most satisfactory. Work is being initiated toward rebuilding and repowering the old park pump, to serve as a standby or emergency pump, and thus avoid the purchase of another unit.

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Surplus Property

While the Superintendent was on Maui arrangements were made to procure three light generating plants for the Haleakala Section, thus eliminating the unsightly pole line and paying the exorbitant rates demanded by Maui Electric Company for services there. Other items procured from surplus were:

36" Band Saw
48" Lathe
18" Jointer - planer
Sander, combination belt disc
DeWalt saw, overhead pull
24" Oliver planer

All of this equipment was seriously needed and will provide for major needs when new shop building is allowed under PCP.

Closing of the Hilo Naval Air Station resulted in our acquiring many thousands of dollars worth of equipment and supplies for merely hauling it to the park without charge of any kind.

Approaches to Park Area

August 22 Highway Engineer Frank R. Carlson of Public Roads Administration was driven over park roads to determine the extent of repair made necessary by heavy through traffic. Mr. Carlson stated that the roads in the park are in better condition than he has seen them in the past ten years. He advised that funds have been allotted to rebuild the road from the 4-Mile Bridge near Hilo to the park. The new road, will have a paved surface 22 ft. wide with 5-foot shoulders. He suggested a complete realignment of the road that would by-pass all unsightly developments within a few miles of the park, skirting the park line on the edge of the pali which forms the boundary, thus relieving the park of much of the maintenance resulting from heavy traffic. This would also involve a new approach road to park headquarters. A 500 ft. right-of-way along the proposed new section would solve the problem of preventing unsightly developments from marring the roadside.

The approach road from Hilo has disintegrated to the point where passage over it is becoming increasingly difficult. It is anticipated that reconstruction will be given the priority this road deserves.

Ranger Service

Rangers throughout the month were largely occupied with routine work. Trail measurements, installation of new signs and completion of sign texts continued. To date a total of 97.7 miles of trail has been measured.

Wildlife

The golden plover which spent the past winter in the Superintendent's yard returned to the same spot August 11 for another winter sojourn. This

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Wildlife (continued)

bird left its winter home on May 2, perhaps for a spot in the Aleutian Islands, where it spent a brief three summer months.

The Superintendent destroyed 15 goats in the Halini Pali section of the park and recommended awarding a permit for one year to control these pests by driving.

Maintenance

The maintenance crew were largely engaged on the water system. The General Foreman made a roads and trails inspection on Maui August 1 to 3. He also contacted the Naval Air Station at Kahalui and inspected generators and other items of surplus equipment being acquired by this park. Remodeled frame CCC quarters into living quarters for a ranger. Repairs to the Halemau-u trail are progressing very satisfactorily.

Interpretive

The Park Naturalist was on duty at Kilauea throughout the month. Douglass H. Hubbard entered on duty as Assistant Park Naturalist on the 24th.

Research and conferences on possible sources of additional water supply for this community occupied about three days. Several constructive conferences were held with the Superintendent on expansion of the naturalist interpretive services, through improved service to visitors, guided field trips, and temporary museum displays and trailside exhibits.

The entire complement of the Battleship Iowa enjoyed the movies of the 1942 Mauna Loa eruption in two evening showings aboard ship. The movies were also shown to a group of Boy Scouts and residents of Kapoho in an improvised outdoor setting.

Complaints

August 25 Mr. E.L. Christianson and Mrs. Christianson, their four children and a friend of one of their daughters, called at the office and reported they had spent a very pleasant two days at the Haleakala Mountain Lodge. Mr. Christianson was high in his praises of the services rendered them but stated his 11 year old daughter was thrown from one of the concessioner's mules and slightly injured. The accident was investigated by Ranger Lindsay who reported the mule to be perfectly gentle and reliable. It seems the young girl had experienced a runaway on a horse at a Hana ranch the previous day and should not have been permitted to ride at Haleakala as she was still somewhat hysterically frightened of animals. Mr. Christianson complained of the service at the Volcano House where he was forced to use the cottages, as all rooms at the hotel were taken. He stated that the services at Haleakala were far superior to those he was able to secure here. His chief complaint was that the beds were extremely uncomfortable. The concessioner has been notified of Mr. Christianson's complaint and plans, when possible, to improve conveniences at the cottages.

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Library

The work of sorting and arranging material in the library was continued during the month. The librarian reports 1,232 items were consigned, 100 titles cataloged, 170 titles and 87 added copies were cataloged and classified, 139 cards were prepared for the catalog and 170 shelf list cards typed. 150 items were marked and are ready for shelving.

Personnel

August 27 a community dinner and dance were held in the park recreational hall to welcome Assistant Park Naturalist and Mrs. Hubbard, who arrived in the park August 23, and Stereographer and Mrs. Norman Hilscox, who entered on duty several months ago.

Visitors

August 6-13 George Amstutz, Hawaiian Service, Honolulu
7-8 Dr. Clyde Alpin, President University of Utah
9-11 Director Wm.E. Spatcher, U.S. Geological Survey, Washington, DC.
" Dr. Harry S. Inid, Chief Basic Research, USGS, "
9-10 Dr. Everett L. Colyer, Asst. Dept. Petroleum Coordinator under
National Defense Act
" Secy U.S. Dept. of Agriculture Clinton Anderson and son, Washington
" Earl M. Thacker
23 Frank R. Carlson, Highway Engineer, P.R.A., Honolulu
25 E.L. Christianson and family, Honolulu
26 Mrs. H. A. Walker, wife of President of American Factors
26 Major General & Mrs. Wm. Rose

Number of Hawaii National Park booklets on hand

Inventory of our stock shows we have on hand approximately 7,100 booklets - not more than 4 months needs.

Frank R. Oberhauser,
Superintendent.

RECEIVED AS FOLLOWS

5 snapshots were sent with this report, i.e.,

Battleship IOWA in Hilo Bay

Midshipmen and enlisted men on trail at Lava Tube

" " " " " " " " another view

Visiting US Geological Survey officials, Mr. Wrather,
Mr. Labb and Dr. Macdonald

Visiting Secy of Dept. of Agriculture Clinton Anderson,
his son, Supt. Oberhansley and Mr. Thacker

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

September 5, 1947.

MEMORANDUM for the Superintendent.

Subject: Narrative Report for August 1947 of Asst. to Superintendent and Acting Park Engineer Moomaw.

Special Activities

Final Estimates. Word was received by regular mail at mid-morning of the 4th that the Final Estimates were due in Chicago at the opening of business Monday, August 11. The undersigned, the chief clerk and the clerk-stenographer immediately started work compiling the estimates according to instructions. It was air mailed seventy-two hours later but the three of us hardly took time out for meals and sleep.

Surplus Property

Two trips were made to Hilo to inspect and select surplus and excess property. This was on the 14th and 25th. There was not too much to select as this property was in rather poor condition; however, the Navy is turning the remaining portions of odd lots of supplies and materials over to us as they fold up the Hilo Naval Air Station.

Water Rates

Analysis of capital investment, operating and maintenance costs of the improved water system was compiled on the 26th.

The joint investments of the concessioner and Government were considered, the concessioner credited with his portion; then annual fixed charges for depreciation were based on the difference, then an estimated operating cost per annum for water consumed was figured. The fixed charges and operating costs were totalled and divided by the estimated total consumption (in 1000 gal units). This estimated unit cost per 1,000 gals. is \$0.59. Separate report was made on this analysis. -73

Inspections

Frank R. Carlson, Highway Engineer, P.R.A., made his annual inspection of major roads on the 22nd. General Foreman Quick and the Assistant to the Superintendent accompanied him on this work. Every foot of major roads was covered and, on completion, Mr. Carlson stated "The roads are in a better condition than they have been for ten years".

Plans, Maps and Surveys

The P.C.P. Priority list was revised to cover the inclusion of two new jobs and the revision of several others. All rehabilitation jobs were revised downward, totalling about \$21,000, largely resulting from the past acquisition of surplus and excess materials, such as lumber, pipe, paint, nails, roofing, etc. This work was started on the 8th and completed on the 11th.

Two days were spent putting construction data on approved water system plans for the record.

New Construction

The water system job progressed very satisfactorily until the last week of the month when we were hampered by rain.

The pipe line is virtually completed and in use, except for two connections. The new pump installation is complete with a new "Blue Streak" 110 h.p. engine coupled directly to the 500 GEM 289' head pump from the Volcano House system. This engine was given to us by the Navy without value but under authority of P.L. 478. Preliminary tests, pumping through 1300' of 6" new new CI pipe and 1600' of (6 to 20 years old) 4" GI pipe, are most satisfactory.

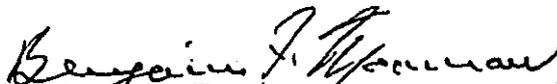
At this writing, work is being initiated toward rebuilding and repowering the old park pump. All records in this headquarters indicate that this is a 50 GEM 50' head pump, but recent tests and results prove that it is a 250 GEM 100' head unit, that will serve as a good standby or emergency pump, and thus avoid the purchase of another unit.

Public Health

All outlying water tanks used as sources of drinking water, and one large hotel tank, were chlorinated during the month.

Accidents and Safety

Two meetings of the Park Safety Committee were held during the month to discuss routine affairs. Separate reports were submitted for these meetings.


Benjamin F. Moomaw,
Asst. to Supt.

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

September 5, 1947.

MEMORANDUM for the Superintendent.

Subject: Naturalist's Report for August, 1947.

General

The Park Naturalist was on duty at Kilauea throughout the month. Douglass H. Hubbard entered on duty as Assistant Park Naturalist on the 24th and shows real enthusiasm over the opportunities offered in Hawaii National Park.

Administrative

Research and conferences on possible sources of additional water supply for this community occupied about three days. Several constructive conferences were held with the Superintendent on expansion of the naturalist interpretive services, and progress has been made by the ranger division on the replacement of road and trail signs.

Interpretation

The entire complement of the battleship IOWA enjoyed the movies of the 1942 Mauna Loa eruption in two evening showings aboard ship. About half of the ship's personnel visited the Kilauea section of the park.

The movies were also shown to a group of Boy Scouts and residents of Kapoho in an improvised outdoor setting. Two additional troupes of Boy Scouts camped in the park and reported a very interesting time.

Illustrations have been assembled to accompany the detailed study of the explosive eruptions of Kilauea.

Use of Park Facilities by the Public

Mr. W. E. Wrather, Director, and Mr. Harry E. Ladd and Dr. G. A. Macdonald, of the Geological Survey, spent two days in a hasty but comprehensive pleasure excursion through the park and around the Island of Hawaii.

Natural History Association

Publications for sale: Letters were written to five publishers concerning the possible addition of books to those now being offered for sale to visitors by the Hawaii Natural History Association. These books include Birds of Hawaii.

Natural History Association (Continued)

Animals of Hawaii, Poisonous Plants of Hawaii, The Story of the Volcano House, Romance of the National Parks, Our Country's National Parks, Hawaiian Flowers, Plant Life of the Pacific World, Mammals of the Pacific World, and Fishes and Shells of the Pacific World.

In addition, new orders were placed for Degener's Plants of Hawaii National Park and Jagger's Volcanoes Declare War, both of which have sold readily. The demand for copies of the 16 mm. kodachrome movie of the 1942 Mauna Loa eruption has far exceeded the supply, and it has been necessary to take the names and addresses of visitors desiring copies in order that they may be sent when we receive them.

Howard A. Powers
Howard A. Powers,
Park Naturalist.

RECEIVED AS FOLLOWS

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES IN NATIONAL PARK AREAS*

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED: August, 1947
Name of Area
Interpretive Administrative Other
 Permanent 2 1 2 Month
 Temporary _____ _____ _____ 1947
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	11	1,093	2-1/2 hrs
Walks or Hikes			
Ruins or Hist. House			
Other			
Total	11	1,093	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	33	2,803	1-1/2 hrs
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	33	2,803	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS
Thurston Lava Tube Trailside Exhibit	31 3,500
Kipuka Puuina Trailside Exhibit	31 2,000
Tree Molds	31 300
Observatory	31 1,500
Silverwood Trail (Maui)	31 1,500
(Give Name or Type) Total	156 8,800

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks and Caption Movies	1	20	2 hrs
Displays and Exhibits			
Replies to Inquiries			
Other			

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

12,698
 Total Receiving Interp. Serv.
37,803
 Total Number Visitors to Area

Howard A. Powers
 NAME Howard A. Powers
 TITLE Park Naturalist

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

Assistant Park Naturalist Hubbard entered on duty August 24, 1947.

* 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 OVERLOOKS, 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.

120505

28

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

September 3, 1947.

MEMORANDUM for the Superintendent.

Report of Hawaiian Volcano Observatory for August, 1947.

Conspicuous fume clouds were observed over Mokuawewewo on several afternoons during August. The most conspicuous of these clouds formed on August 3. From the rim of Mokuawewewo the fume appeared dense and bluish. It arose from a crack over a quarter of a mile long NE of the 1940 cone.

In August, for the first time in several months, the number of earthquakes recorded at Kilauea exceeded those recorded at Mauna Loa, or 40 and 39 respectively. Earthquakes of Mauna Loa origin predominated during the first half of the month and those from Kilauea in the latter half. Three of the earthquakes were perceptible at Park headquarters.

There was an accumulation of NNE tilt during the month with a conspicuous northerly tilt during the last few days.

A few of the cracks around Halemau mau opened slightly. Other measured cracks showed no movement.

Work of R. H. Finch

In addition to attending to seismographic routine, some time was spent studying the inactive periods of Kilauea. A half day was spent in the Kau Desert. Many requests for back numbers of the Volcano Letter were attended to.

Work of B. J. Loucks

In addition to working on the chronographs for the Hilo and Mauna Loa seismographs, he worked on several spare clocks. Some time was spent on sawing, sorting, and listing surplus bar stock received from the Navy.

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

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

September 3, 1947.

MEMORANDUM for the Superintendent.

Subject: Monthly narrative report for August, 1947.

Maintenance

Trail measurements, installation of new signs and completion of sign texts continued throughout the month. To date a total of 97.7 miles of trail have been measured by Ranger Hartesveldt.

A portion of the trail in the vicinity of the Pit Craters was repaired and marked with ahus.

Park Warden Hauanio and the undersigned checked the Mauna Loa-Keaukoku boundary fence from Kipuka Ki to a point about 1/2 mile east of the truck trail lookout and found it to be in excellent condition for the telephone field wire that we plan to lay down soon.

Warden McCall spent some time on telephone maintenance.

The register sheets at Bird Park, Namakani Paio, and Old Summer Camp were replaced at the end of the month.

The following animals were shot: Red Silver, Spider, Duke, Sammy and Monkey.

Police Protection

No arrests were made during the month. Shinroku Kanemori, an alien Japanese of Hilo, Hawaii, was caught with some ferns that he had removed from Kipuka Puauulu and was duly reprimanded.

James Robert Paris of Hawaii Trust Co., Honolulu, T.H., was found by Superintendent Oberhansley slumped over the wheel of his car in an inebriated condition near the Thurston Lava Tube. He was turned over to the Oloa police.

Several other people were warned for minor infraction of the rules and regulations.

Wildlife

*Plover have returned to Hawaii and may be seen frequently at the CCC Camp or on the Mauna Loa truck trail. Superintendent Oberhansley reported that he first saw them about August 11. The undersigned first saw them on the Mauna Loa truck trail on August 17.

A total of 29 goats were destroyed.

Building Fire Protection

The monthly Volcano House fire hazard inspection was made and will be reported separately.

Training of personnel on the operation of the fire engine continued. In case of a week-day fire, Storekeeper Hickcox will drive the truck to the fire, with laborer Medeiros as first alternate.

Several of the recently installed fire hydrants were tested and found to give excellent pressure.

Accidents

Two visitors were involved in an accident which occurred on the Mamalahoa Highway on August 5, 1947. A stalled vehicle operated by Eichi Higa was being pushed onto the highway when it was struck by a Plymouth sedan operated by Mrs. Annie Liu. There were no personal injuries.

Miscellaneous

Two field trips were made by Ranger Hartesveldt and the Acting Chief Ranger. One was to the Puu OO trail and the other to the Naulu forest area. The latter has been written up in a separate report. The trips were in conjunction with the Annual Animal Census Report.

A ranger meeting was held on August 15. Topics discussed were arrest procedure and motor vehicle accident investigations.

Respectfully submitted,

Cliff Davis

Cliff Davis,
Acting Chief Ranger.

*Pacific golden plover.

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



September 8, 1947

Memorandum for the Superintendent,

Following is a statement of the total animal day use, broken down into three groups, (Used in the crater)

By the Lodge.....	29 animal days
By Others	28 animal days
By the Park	40 animal days
	97 Total animal days for August

At present I am not planning to turn over the Park animals to the Lodge as I feel that we will need them for our own use for a while.

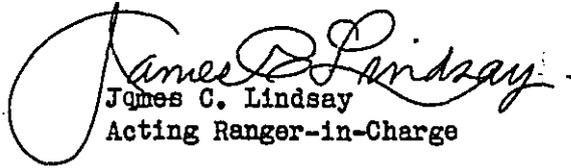
The Lodge has found that they were keeping too many animals up the mountain so they have taken some of their own back to lower pastures.

Will Mr. Quick or some one be sent over to install these generators, as I know very little about their installation.

We received the Electronic photo-troller but can not use it as it operates on AC current and our old counter operates on DC current.

I was speaking to the man that handles these photo-trollers in Honolulu and he said he thought that a new AC counter would cost about \$15.00.

Number of Lodgings, House Count for the month of August was the same as the Number of Over-Night Guests (Registrations) as turned in on the report.


James C. Lindsay
Acting Ranger-in-Charge

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

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Volcanologist.

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September 3, 1947.

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Page 2.

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Respectfully submitted,

Cliff Davis,
Acting Chief Ranger.

*Pacific golden plover.

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Second monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for August, 1947.

The work of sorting and arranging the material in the library was continued during the month. The Library of Congress list of subject headings, the Cutter-Sanborn author-marks, and the Dewey Decimal classification system arrived, and classification of the already cataloged material was begun. The A. L. A. Code for cataloging books is out of print, but it is hoped that a copy may be secured by some means.

The necessary information and materials for ordering Library of Congress cards were received and the first order for cards dispatched immediately. Cards for 47 titles and 255 analytics were ordered.

The following items were bound for the library in Hilo:

Monthly bulletin of the Hawaiian Volcano Observatory,
v. 10-17
Volcano letter, 1925-1930, 1932-1934, 1939-1941.

The library received the following items by gift:

5 reprints from Arthur Holmes, England.
3 reprints from Chester K. Wentworth, Honolulu.
"Geomorphology" by M.E.A. Hinds, from G.W. Wallace, Waialua.

An exchange agreement was resumed with the Geological and Mining Society of the Netherlands and the 1946 issues of the monthly bulletin, "Geologie en mynbouw" were received. Nos. 1-462, 464, 482, 485-491 of the Volcano Letter were sent to the Geology and Geography library of Northwestern University. Complete sets of the Volcano Letter were prepared for Japan and Rabaul.

1232 items were accessioned, 100 titles cataloged, 170 titles and 87 added copies were cataloged and classified, 139 cards were prepared for the catalog and 170 shelf list cards were typed. 150 items were marked and are ready for shelving.

Mary Melton
Mary Melton, Librarian

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Complaints

August 25 Mr. E. L. Christianson and Mrs. Christianson, their four children and a friend of one of their daughters, called at the office and reported they had spent a very pleasant two days at the Haleakala Mountain Lodge. He was high in his praises of the services rendered there but stated his 11 year old daughter was thrown from one of the concessioner's mules and slightly injured. The accident was investigated by Ranger Lindsay who reported the mule to be perfectly gentle and reliable. It seems the young girl had experienced a runaway on a horse at a Hana ranch the previous day and should not have been permitted to ride at Haleakala as she was still somewhat hysterically frightened of animals. Mr. Christianson complained of the service at the Volcano House where he was forced to use the cottages as all rooms at the hotel were taken. He stated that the services at Haleakala were far superior to those he was able to secure here. His chief complaint was that the beds were extremely uncomfortable. The concessioner has been notified of Mr. Christianson's complaint and plans, when possible, to improve conveniences at the cottage.

September 5, 1947.

MEMORANDUM for the Superintendent.

Subject: Narrative Report for August 1947 of Asst. to Superintendent and Acting Park Engineer Moomaw.

Special Activities

Mum Final Estimates. Word was received by regular mail at mid-morning of the 4th that the Final Estimates were due in Chicago at the opening of business Monday, August 11. The undersigned, the chief clerk and the clerk-stenographer immediately started work compiling the estimates according to instructions. It was air mailed seventy-two hours later but the three of us hardly took time out for meals and sleep.

Surplus Property

Two trips were made to Hilo to inspect and select surplus and excess property. This was on the 14th and 25th. There was not too much to select as this property was in rather poor condition; however, the Navy is turning the remaining portions of odd lots of supplies and materials over to us as they fold up the Hilo Naval Air Station.

Water Rates

Analysis of capital investment, operating and maintenance costs of the improved water system was compiled on the 26th.

The joint investments of the concessioner and Government were considered, the concessioner credited with his portion; then annual fixed charges for depreciation were based on the difference, then an estimated operating cost per annum for water consumed was figured. The fixed charges and operating costs were totalled and divided by the estimated total consumption (in 1000 gal units). This estimated unit cost per 1,000 gals. is \$0.69. Separate report was made on this analysis.

Inspections

Frank R. Carlson, Highway Engineer, P.R.A., made his annual inspection of major roads on the 22nd. General Foreman Quick and the Assistant to the Superintendent accompanied him on this work. Every foot of major roads was covered and, on completion, Mr. Carlson stated "The roads are in a better condition than they have been for ten years".

Plans, Maps and Surveys

The P.C.P. Priority List was revised to cover the inclusion of two new jobs and the revision of several others. All rehabilitation jobs were revised downward, totalling about \$21,000, largely resulting from the past acquisition of surplus and excess materials, such as lumber, pipe, paint, nails, roofing, etc. This work was started on the 8th and completed on the 11th.

Two days were spent putting construction data on approved water system plans for the record.

New Construction

The water system job progressed very satisfactorily until the last week of the month when we were hampered by rain.

The pipe line is virtually completed and in use, except for two connections. The new pump installation is complete with a new "Blue Streak" 110 h.p. engine coupled directly to the 500 GPM 289' head pump from the Volcano House system. This engine was given to us by the Navy without value but under authority of P.L. 478. Preliminary tests, pumping through 1500' of 6" new new CI pipe and 1600' of (6 to 20 years old) 4" CI pipe, are most satisfactory.

At this writing, work is being initiated toward rebuilding and repowering the old park pump. All records in this headquarters indicate that this is a 50 GPM 50' head pump, but recent tests and results prove that it is a 250 GPM 100' head unit, that will serve as a good standby or emergency pump, and thus avoid the purchase of another unit.

Public Health

All outlying water tanks used as sources of drinking water, and one large hotel tank, were chlorinated during the month.

Accidents and Safety

Two meetings of the Park Safety Committee were held during the month to discuss routine affairs. Separate reports were submitted for these meetings.

Benjamin F. Moomaw,
Asst. to Supt.

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



August 31, 1947

Memorandum for the Superintendent,

Subject, Haleakala Section Monthly Report for August, 1947.

The Haleakala Section experienced another memorable event in the opening of the Haleakala Mountain Lodge which took place on August 13, 1947.

This is something that the people of Maui and the rest of the Islands have wanted for many years. To date there has been a great interest shown towards it. Everyone that has dropped in either to visit or for a meal leaves with the same story, "we will be back and bring others."

Several things have to be ironed out before everything is operating smoothly. At present only one of the heating units is working thus leaving most of the rooms without heat of any kind. The help is still fairly green and needs a good bit of training and supervision. There are a few other minor things that will finally get straightened out in time.

The break-down by day as it has been kept is as follows;

Date	Meals	Transp.	Lodgings	Sundries	Tours	Concession	Total
16	38.35		30.00				68.35
17	37.65		6.00				43.65
18	21.35		21.00				42.35
19	52.25		6.00				58.25
20	65.30		12.00				77.30
21	29.25		6.00		12.00		47.25
22	14.75						14.75
23	7.75					0.15	7.90
24	96.35	42.00	27.00	0.98	19.30	1.65	187.28
25	3.75					1.05	4.80
26	16.00					0.54	16.54
27	60.40	42.00	21.00		16.00	1.45	140.85
28	24.35						24.35
29	40.40					0.72	41.12
30	60.15		6.00				66.15
31	57.00					1.51	58.51
Total	625.05	84.00	135.00	0.98	47.30	7.07	899.40

- 2- One-day crater trips 1-person each trip
- 2- Short trips to the head of Halemau Trail and back 10-people

A more thorough brake down will be kept by the Lodge from now on.

General Weather Conditions:

The weather has been quite changable this month with light showers and passing fog.

Maximum temperature.....78 degrees on the 14th.

Minimum temperature.....42 degrees on the 22nd.

Rainfall total.....3.49 inches

Clear days.....23

Partly cloudy days..... 6

Cloudy days..... 1

Maintenance

The laborers spent most of their time during the past month on the Halemauu Trail. Several large boulders rolled off the cliffs and broke out the banks of the trail below, thus causing extra work that had to be taken care of right away.

The rest of the laborers time was spent digging a cesspool for the Rangers quarters and removing large rocks from the summit road.

Two laborers, Sam T. Muraoka and Joseph D. Franco, were released to cut expenses.

A large part of Ranger Medeiros time was spent completing the new quarters. This work consisted in the installation of the sink, shower, toilet, and hand-basén, connecting of the entire sewer system installing heater room, sink wood-work, cooler, clothes closet and shelves, also cover the cesspool.

Other Ranger work performed for the month consisted of 2-trips in the crater by Ranger Medeiros and 1-trip by myself. Patrolling of Summit road, cleaning of Observation Station and Rest Rooms, completion of the painting at the Observation Station, building tool racks in the shop, and nightly contacts with the Guests at the Mountain Lodge to explain things to them and to answer their many questions.

Inspections:

Superintendent Oberhansley and General Forman Quick visited the area. Superintendent Oberhansley was over for the opening of the Haleakala Mountain Lodge and made the trip into the crater spending the night at Kapalaoa Caben. Mr Quick was over to inspect the new quarters that were being made, and also to look over the work being done on the Halemauu Trail.

Approaches to the Park:

Our friend Mr Al Burdick was approached and asked if he would have the road stripped from the Kula junction to the Park entrance which he agreed to very readily. It is completed and I dropped in at Mr Burdicks office and thanked him personally for the cooperation shown.

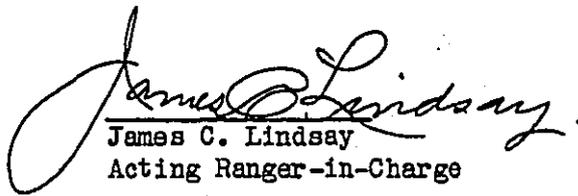
Flora:

Flora:

About fifteen Silver Sword plants were observed in bloom in the crater and one is in bloom at the summit.

Destruction of Exotic Animals:

Fourteen goats were eliminated from the crater during the Month.


James C. Lindsay
Acting Ranger-in-Charge

Pictures of accident of July 10, 1947





10-28
(May 1929)
6-7410

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

FILE NO.

Superintendent's Narrative Report

July, 1947

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

August 11, 1947.

Summary of July 1947 6-page Narrative Report for
Hawaii National Park.

General Weather Conditions, p.1. Precipitation at Kilauea 4.30"; at Haleakala section 1.65". Maximum and minimum temperatures at Kilauea headquarters 76° and 51°.

Superintendent's Activities, p.1-2- On Maui first two days of month inspecting Haleakala section and assisting new concessioner with his plans to provide visitor accommodation there. At Kilauea section conferred with Commanding and Executive Officers of Kilauea Military Camp regarding their request to erect additional cottages and small warehouse. Also discussed the mutual water problem and Dr. Powers and Engineering Officer of RMC were assigned to investigate ground water resources at Woods Valley. Their joint report will be submitted when field work has been completed. Discussed with Colonel Rantzov of Real Estate Division Army Dist. Engineers the problem of Army installation on Red Hill and the restoration to be done by the Army when that station is abandoned. Made a reconnaissance of the Kopoho to Kalapana coast line in connection with Boundary Status Report. New radio station to be opened in Hilo Aug.15. Group of Governors visits park.

Research and Observation, p.-2. July quietest month, seismically, in over a year. Number earthquakes recorded: Mauna Loa 28; Kilauea 14.

Water System, p.3- Progress continues to be made in erection of the 10,000 gallon redwood tanks; new water main installed.

Travel, p.5- At Kilauea section 56,327 visitors in July; at Haleakala 2263.

Library, p.6- New Librarian assumes duties as of July 1. A donation of \$3,000 by the Hawaiian Volcano Research Association has made her employment possible for one year.

Visitors, p. 6- Names of visiting Governors shown p.6

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

August 11, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of July, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 51°. At Haleakala ranger station these recordings were 80 and 41. Total rainfall at Kilauea 4.30" and at Haleakala 1.66".

Special Activities

The Superintendent was on Maui the first two days of the month to inspect the Haleakala Section of the park and to assist the new concessioner, Mr. Robert "Boy" von Tempky with his plans to provide visitor accommodations there.

July 4 was devoted to meeting various groups of visitors at important focal points. Travel was not exceptionally heavy as only 434 automobiles with 1640 passengers were counted at the Hilo entrance between the hours of 8 A.M. and 4 P.M.

July 7 the Superintendent and Dr. Powers conferred with Colonel Ware and Colonel King and other officers at KMC regarding their request to erect additional cottages and a small warehouse. We also discussed our mutual water problem and Dr. Powers and Lt. Jeffers, engineering officer at KMC, were assigned to investigate ground water resources at Woods Valley. Their joint report will be submitted when field work has been completed.

Colonel Rantzow of the Real Estate Division of the Army District Engineers office called on us July 8. We discussed the problem of Army installation in the Haleakala section and the restoration to be done by the Army at Red Hill when the automatic relay station is abandoned there.

July 16 to 18th the Superintendent and Park Foreman were at the Haleakala section. Foreman Quick instructed the six-man crew engaged in repairing the spectacular Halemau-a trail and on safety, while the Superintendent made a general inspection and devoted time to administrative and concession problems. Weekly Rotary was attended on Maui and the park program was discussed with local business and civic leaders, who enthusiastically endorse the early opening of visitor accommodations at Haleakala.

On July 20 a reconnaissance was made of the Kopoho to Kalapana coast line

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in connection with the Boundary Status Report which was submitted July 22.

Mr. Wobbley Edwards, former war correspondent and radio commentator, who is now managing four radio stations in the Territory, and Mr. Al Green, manager of the new station which opens in Hilo August 15, were in the park July 22 and 23rd to request our cooperation in planning a national broadcast of the program "Hawaii Calls" from park headquarters as a salute to the new station they will open in Hilo on that date. They also requested that we consider the feasibility of presenting regularly scheduled weekly broadcasts from their stations on Hawaii and Maui on National Park features, activities, and other subjects of wide interest. It is hoped we shall be able to use this medium to disseminate interesting, factual information throughout the islands, as the average citizen here is meagerly informed about this park and the Service in general.

Mr. Benjamin F. Fairless, Chairman of the U. S. Steel Corporation, and Mrs. Fairless were interested visitors July 20-24. They attended Dr. Powers' lectures and were shown about the park. They plan to return to the park for an extended visit when the next eruption occurs.

July 27 and 29 two groups of Governors were in the park for luncheon and the usual hurried trip through a small portion of the park which visitors of note are usually allowed as the result of a tight schedule drawn up in Honolulu. A list of these visiting Governors will be found on the last page of this report. These special guests invariably complain about their inability to see more of the park as a result of a poorly arranged itinerary, which forces them to spend most of their time in Honolulu. The Superintendent and Mrs. Oberhansley lunched with the Governors and conducted them to Thurston Lava Tube, Fern Jungle road, and Halemauau crater.

Former Auditor and Mrs. E. E. Tillett vacationed for five days in the park, giving us an opportunity to reciprocate in a small way for all they have done for us.

One staff meeting, one general safety meeting, and three safety committee meetings were held.

Research and Observation

July was the quietest month, seismically, in over a year. The number of earthquakes recorded were: Mauna Loa 29 and Kilauea 14. There was but little movement of any measured cracks around Halemauau. Tilt for the month was normal in both direction and amount.

Material for the April-June Volcano Letter was completed and sent to the publisher.

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Concessioners

The Volcano House continued sold out in advance all during July and did a very active business with in day visitors who took one or two meals at the hotel but did not remain overnight.

The new concessioner at Haleakala, Mr. Robert G. von Tempsky, is speeding up his preparations to take care of visitors by the middle of August.

Water System

Assistant to the Superintendent Moomaw spent 19 working days of the month on engineering, supervising installation and testing the new 6" CI water main from the pump house to the existing 6" transite main at the Volcano Observatory. This line, including short spurs for future extensions and hydrants, is about 2000 ft. long. Six standard hydrants, nine gate valves and five spur lines have been installed. At month's end the final connection to the six 100,000 gal. tanks, a cross connection to the existing Volcano House and two more hydrants remain to be installed; all are simple jobs.

An estimated \$2,000 savings on this job was effected by using a "Cleveland" ditcher that was borrowed from the Territory.

The line is now in use for domestic distribution and can be used for fire protection by opening a valve at the Volcano House.

Progress continues to be made in the erection of the 100,000 gal. redwood tanks.

Ranger Service

Considerable time was devoted by Acting Chief Ranger Davis to the Boundary Report. This was completed and included maps on the Kilauea and Haleakala sections of the park.

Minor telephone maintenance was performed by the rangers. About seven reels of field wire have been checked at the CCC Camp and necessary repairs made. This wire is being remedied for the Mauna Loa telephone line.

In the sign program, 50 miles of trail have been measured with the wheel-ometer to check for the accuracy of existing signs and to furnish correct mileage data for new signs where none exist. Some of the present signs were off as much as 1.5 miles in a distance of less than three miles. All trails in the Kilauea Crater area and Chain of Craters area were measured and suggested sign texts were submitted, using the mileage data gathered. Approximately 80 sign texts have been submitted. Some new signs were set out during the month with the ranger and maintenance division cooperating.

RECEIVED AS FOLLOWS

Ranger Service (continued)

The trial of Norio F. Tanita, apprehended for speeding, came up before U. S. Commissioner Judge Harry Irwin in Hilo on July 11. He was fined \$25.00.

Frequent patrols were made and several visitors were warned about picking native vegetation.

Ranger Hartsveldt reports that while measuring the Pit Craters trail in the Kau Desert, unexploded projectiles were found lying on the ground, some of them entirely intact. These were promptly removed to a place of safety.

Forest Fire Protection

A small grass fire was discovered by Assistant to the Superintendent Mooney about 200 feet west of the parking area in front of park headquarters building at 11:40 A.M. July 21. About 100 sq. ft. of grass were burned. The fire was extinguished before the fire truck arrived. The blaze apparently started from a carelessly thrown cigarette.

Building Fire Protection

The annual fire hazard inspection was completed and remedial action has been taken on some of the things found not 100% right. The Volcano House was inspected in accordance with FO-572 and 800-54 on July 25. Fire suppression training is in progress among Park Service personnel and will be extended to the Volcano House employees as soon as possible.

The installation of nine fire hydrants and new pressure system and the completed erection of three 100,000 gallon water tanks is a valuable addition to our fire protection system.

Maintenance

In addition to road shoulder repair work in Section 3-0 of the Mamalahou Highway, the maintenance division largely devoted its entire man-power to the water system and this work is listed under the heading of Water System. Concrete for three tank foundations was poured and one tank erected. The second tank at close of month was 50% complete. Started installation of new centrifugal gasoline-driven pump. Status of this job at end of month: 90% complete.

Surplus Property

Approximately \$5,000 worth of miscellaneous equipment, such as pneumatic wrenches, pneumatic drills, hoists, jack hammers, busters, wire rope, metal bar stock and plate, were obtained without cost to the Service.

RECEIVED AS FOLLOWS

Inspections

Frequent inspections were made of all work projects and we have been fortunate in raising the standards of work performance as we are now able to be more selective in employing labor.

Insect and Tree Diseases

An unusually heavy infestation of cottony cushion scale insects (*Icerya purchasi*) was observed on a large *Straussia* species tree near the Mauna Loa truck trail on July 30. Injury to some of the branches was observed. This insect is also responsible for the sooty black mold which has covered the tree.

The light trap has revealed the presence of a destructive immigrant insect in the park. Dr. O. H. Swezey, Consulting Entomologist of the Hawaii Sugar Planters Association, has identified this insect as *Elaphria nucicolora*, a destructive insect in the larval or cut-worm stage. This is the first record of its presence on an outside island, it having been discovered in a light trap at Hickam Field, Oahu, June 5, 1945. Nothing is known of its food habits in Hawaii. It is found in Florida and Texas, as well as other parts of the world.

Interpretive

The Park Naturalist was on duty at Kilauea the entire month, except for a short visit to the Haleakala section on July 7.

Guests at the Volcano House have shown an interest in movies of the older eruptions, including 1918, 1924, 1931 and 1934 activity in Kilauea, and 1935, 1940 and 1942 eruptions of Mauna Loa. Several groups of local young people and a group of Cooperative Association of Vegetable Growers attended specially requested lectures and movies. The Y.W.C.A. and two local churches brought groups of children to the park for short conducted hikes in the Kilauea area.

The research study of the explosive eruptions of Kilauea has been nearly completed. Three days were spent in field study of possible water sources at Pahala Wood's Valley and Kulani cane areas.

The mimeographed "Geology and Scenery" was placed on sale by the Natural History Association this month.

Publicity

The Paradise of the Pacific magazine in its July, 1947 issue published an illustrated article on Haleakala - entitled "Haleakala is one of World's Great Travel Thrills" and likening its craters to the craters of the moon.

Travel

At the Kilauea section there were 56,327^{visitors} of which 625 were in the armed forces. At Haleakala there were 2263 visitors, no military.

RECEIVED AS FOLLOWS

Library

Miss Mary Melton entered on duty July 1 as Librarian. A donation of \$3,000 by the Hawaiian Volcano Research Association made her employment for one year possible. Miss Melton is a thorough and competent Librarian. A copy of her interesting initial report is attached.

A gift to the Library by George Duncan, Chief Engineer of the Olna Sugar Plantation, consisting of the magazine FORTER covering without a break some forty years, and other scientific periodicals for a shorter span, was accepted and stored in a basement room awaiting disinfection and accession to the Library by Miss Melton.

Personnel

Former District Ranger Gunder E. Olson tendered his resignation from the Service on July 26. Park Ranger James C. Lindsey was temporarily assigned to fill that job.

Park Ranger Medeiros was assigned to the Haleakala section of the park.

Miscellaneous

On July 29 Miss Gainer Lord while hiking with her mother, Mrs. Robert Lloyd, on the Byron Ledge, discovered an extra fine specimen of a stone adze, which she brought into the Superintendent and contributed toward our collection of artifacts for the museum.

Number of Hawaii National Park
booklets on hand

An inventory of our stock shows we have on hand approximately 9,500 booklets. 9,200

Visitors:

July 8 Col. Rantzow, Chief Real Estate Division, Dist. Army Engineers
16-21 Mr. & Mrs. E. E. Tillett
22 Former Terr. Governor & Mrs. Ernest Kai (2 weeks visit)
23 Mr. Webbley Edwards, Former War Corres. with General MacArthur, and
radio commentator
27 Governor Sam C. Ford, Montana; Governor Earl Snell, Oregon
" Chas. M. Dale, N.H. " Vail Pittman, Nev.
" J. D. Pinero, Puerto Rico; Lt. Gov. Donald S. Whitehead, Idaho

Frank R. Oberhansley,
Superintendent.

Encl.

RECEIVED AS FOLLOWS

First monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for July, 1947.

On July 1, 1947, I began my duties as librarian for the Hawaii Volcano Observatory and the Hawaii National Park. Careful consideration had been given the preliminary survey report made in February by Miss Griffey, and with this report and her recommendations in mind I began a thorough examination of the materials in the library. Many hours were spent going through the material shelved in pamphlet boxes and in the basement store room. Although the reprints and pamphlets had been classified and shelved by subjects I soon discovered that many were out of place; duplicates were filed under different subjects, and a number had not been classified. The first two weeks were spent in sorting and arranging the materials in order to facilitate the classifying and cataloging of the library.

A careful check of all periodicals, government publications, serials, and continuations was made. This necessitated going through the materials housed in the basement, and the offices in the Observatory. Current issues of the periodicals and continuations for the year, 1947, are now shelved on a table in the library with the back issues in the basement or on the top shelves in the stacks.

All bound volumes in the Observatory library and the Naturalist library are shelved together with other titles for which Library of Congress printed cards will be ordered. Application was made to the Library of Congress for a subscription to the catalog card service, but no reply has been received to date.

The A.L.A. Rules for Filing Catalog Cards, and Olive Swain's Notes used on Catalog cards have been received. The Cutter-Sanborn author-marks, A.L.A. Code for Cataloging books, and the Dewey Decimal Classification system are on order and classification will begin as soon as these arrive.

A proposed code for cataloging the material in the library has been prepared after consultation with Mr. Finch and Dr. Powers. The code has been approved by Mr. Oberhansley. Simple cataloging with a minimum of notes will be used. Only specific subject headings will be assigned and as a rule only one subject to a title.

The necessary library supplies were received through the Park Headquarters. Two steel two-tray units have been delivered. A book truck and the special typewriter keys with the catalog symbols have been ordered.

The condition of the material is excellent. I have done some mending: torn pages, loose covers, and pictures, etc. Eighteen articles have been extracted from magazines and put in covers. Ten extracts have been bound by the librarian. 900 items have been accessioned and 40 titles cataloged.

(SGD) MARY MELTON
Mary Melton, Librarian

RECEIVED AS FOLLOWS

First monthly report of the librarian of the Hawaiian Volcano Observatory and the Hawaii National Park for July, 1947.

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(Signed)

Mary Melton, Librarian

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



July 31, 1947

Memorandum for the Superintendent,

Subject, Haleakala Section Monthly Report for July, 1947.

The Acting Ranger In Charge reported for duty at Haleakala on July 21st and spent the following day going over the work in progress with the departing Ranger In Charge.

Two laborers arrived July 28 for a tour of duty at the Ranger Station for the purpose of remodeling one of the existing buildings, for a Rangers quarters.

General weather conditions in the Park.

The weather has been very favorable during the month, as the days have been clear and there has been enough moisture to keep everything green.

Maximum temperature	80 degrees on the 18th.
Minimum temperature	41 degrees on the 3rd., 11th., 12th., and 14th.
Rainfall total	1.68 inches
Clear days	14
Partly cloudy days	11
Cloudy days	5

Mr von Tempsky is working very hard on the Mountain Lodge, and we are giving him all the cooperation possible. He has just completed a pasture, for his animals, on the ranch land just below the park. The former officers building is all painted and practically equipped with furnishings. All other buildings are practically complete. Mr von Tempsky is planning to take the first party into the crater on or about the 8th. of August.

Maintenance.

The laborers spent all of their time during the past month on the Halemau Trail. They packed a large quantity of grass sod in with the mules and are now planting it. The grass that has already been planted is taking hold and is showing good growth.

The walls and ceiling of the Observation Station have been painted, and some of the names have been sanded off the walls.

The fence around the Silver-Swords, at the summit, has been repaired and a sign warning the public about tampering with the Silver-Swords has been installed within the inclosure.

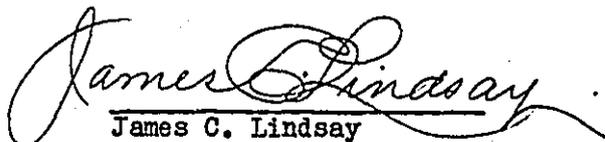
Other duties performed were, patrol of the road from the Ranger Station to the summit, removing loose rocks and rubbish from the road, repairing doors in Observation Station, clean out one of old C.C.C. buildings to be

remodled for Ranger quarters, build tool racks for tools, paint w
wheel-barrow, train horse, haul freight and supplies from L.S.T.
and Kahului Navel Air Station, and clean out Observation Building.

The fiscal year travel to this section of the park was
21243. And the use of the Cabins within the craber was enjoyed by
502 persons, 28 of them this month.

Wildlife.

No wildlife was destroyed in the park during the phis month.


James C. Lindsay
Acting Ranger in Charge

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

August 9, 1947.

MEMORANDUM for the Superintendent.

Subject: Narrative Report for July, 1947 of Assistant to Superintendent
and Acting Park Engineer Benjamin F. Moomaw.

General

As described in the paragraph "New Construction" below, the new 6" cast iron watermain between the park Pump House and the new tanks is complete and in use; with the exception of final connection at the tanks and one cross connection to the Volcano House system, the end of construction of the park's basic water system is in sight.

When I first began acting in the position ~~in~~ that I now hold (Dec. 1937) there were two important jobs that I determined to see inaugurated before leaving Hawaii - (1) the new Volcano Observatory and Naturalist Building, and (2) an adequate water system. Both jobs have now been carried to the point of near completion, and both are in use or practically in use at this writing.

In view of the above, it is requested that action be initiated immediately to transfer the writer to a Region I Area, somewhere east of the Mississippi and south of the line roughly defined by the Potomac and Ohio Rivers.

Inspections

16th- In company with Mr. Lorin Thurston, publisher of the "Honolulu Advertiser", inspected the Mauna Loa strip and truck trail.

27th- General Foreman and undersigned inspected "Footprint" shelter and area.

Investigation of New Park Areas and Boundary Changes

14th, 21st-22nd. Collaborated with the Acting Chief Ranger and Superintendent in preparing the Boundary Status Report.

Maps, Plans and Surveys

14th & 17th- Revised Reconstruction and Rehabilitation P.C.P. estimates for Buildings, Utilities, and Miscellaneous Items. These three jobs were revised downward by an estimate of \$21,000 as a result of (1) securing surplus and excess material and equipment and (2) a \$5,000 grant for this work during 1947 F/Y.

New Construction

Nineteen working days of the month were spent engineering, supervising installation and testing the new 6" CI water main from the Pump House to the existing 6" transite main at the Volcano Observatory. This line, including short spurs for future extensions and hydrants, is about 2000' long. Six standard hydrants, nine gate valves and five spur lines have been installed. At month's end the final connection to the six 100,000 gallon tanks, across connection to the existing Volcano House and two more hydrants remain to be installed; all are simple jobs.

An estimated \$2000 savings on this job was effected by using a "Cleveland" ditcher that was borrowed from the Territory.

The line is now in use for domestic distribution and can be used for fire protection by opening a valve at the Volcano House.

Safety

21st- Attended monthly meeting of KMC Safety Council.

24th- Held regular meeting of Park Safety Committee, for which separate report was submitted.

29th- Conducted General Safety Meeting for all park employees.

Public Health

Due to extremely dry weather, the water was chlorinated three times, and at different points.

Visitors

15th & 17th- Mr. Lorin Thurston, Publisher "Honolulu Advertiser" and discoverer of Thurston Lava Tube.

16th- Mr. Stewart Fern, Director of Public Relations, Hawaii Visitors Bureau.



Benjamin F. Moomaw,
Asst. to Supt.

Aug 4 1947

Memorandum for the Superintendent

Report of the Hawaiian Volcano Observatory for July.

July was the quietest month seismically in over a year. The number of shakes recorded were: Mauna Loa 29 and Kilauea 4. None of the earthquakes was felt at Park Headquarters. A majority of the earthquakes originated along the northeast rift of Mauna Loa with very shallow foci.

There was but little movement at any of the measured cracks around Halemauumanu.

Felt for the month was normal in both direction and amount.

Work of R. H. Finch

Material for the April-June Volcano Bulletin was completed and sent to the publisher.

Seismological routine took up a good deal of my time.

Library A gift to the library by Leo Duncan, consisting of the magazine Power covering about 40 years.

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The data of the following local disturbances were determined from seismograph stations operated on the island of Hawaii by the Hawaiian Volcano Observatory of the Hawaiian National Park. Time is Hawaiian Standard, 10 hours and 30 minutes slower than Greenwich until June 8, then 10 hours slower. The number preceding each earthquake is the serial number of the quake for the current year.

- 36. April 2, 23:57, very feeble.
- 37. April 8, 05:10, very feeble.
- 38. April 10, 05:57, very feeble. Mauna Loa shake.
- 39. April 12, 01:07, feeble. Probably Mauna Loa
- 40. April 12, 01:10, feeble.
- 41. April 12, 01:46, slight. Felt at Kapaeha.
- 42. April 12, 02:28, slight.
- 43. April 12, 02:29, slight. Felt at Kapaeha.
- 44. April 12, 07:49, very feeble.
- 45. April 12, 18:27, feeble. Kilauea shake
- 46. April 13, 06:05, very feeble.
- 47. April 13, 06:21, very feeble.
- 48. April 15, 16:15, feeble.
- 49. April 17, 01:27, very feeble.
- 50. April 20, 03:27, very feeble.
- 51. April 20, 12:17, feeble.
- 52. April 20, 23:27, feeble.
- 53. April 21, 23:58, very feeble.
- 54. April 22, 14:40, feeble. NE slope. Mauna Loa.
- 55. April 22, 20:07, very feeble.

RECEIVED AS FOLLOWS

And some others for a shorter span
were accepted and stored in a basement
room awaiting disinfection.

Work of B. J. Loucks

A large part of his time was spent
on various clocks. Part of one day was
spent installing a repaired clock at the
Volo seismograph station. A half day was
spent making a bushing for the water
pump shaft. Leave for one day was taken.

R. H.

Volcanologist

RECEIVED AS FOLLOWS

Earthquake Data, April - June 1947 ¹³²/₁₆

Week ended	Months of terror	Very feeble	Feeble	Slight moderate	Local seismicity	Teleseisms
April 6	7	2	0	0	9.75	0
13	2	4	2	3	10.50	2
20	2	2	3	0	4.50	0
27	6	3	1	0	4.00	0
May 4	10	5	1	0	6.00	0
11	9	3	0	1	5.75	0
18	5	2	0	0	2.25	0
25	5	0	1	0	2.20	0
June 1	6	6	0	0	4.50	0
8	16	0	0	0	4.00	0
15	4	1	0	0	5.00	0
22	10	2	0	0	6.50	0
29	5	0	0	1	3.25	0

* For definition of local seismicity, see Volcanic letter no 371

All trails in the Kilauea Crater Area and Chain of Craters Area were measured and suggested sign texts were submitted using the mileage data gathered. Approximately 80 sign texts have been submitted. Some new signs were set out during the month with the Ranger and Maintenance Divisions cooperating. While measuring trails, Ranger Hartsveldt noted the following: Byron Sedge and Papaia Crater trails are in bad need of brushing out, especially the Byron Sedge trail near Kilauea Iki. The Cochet trail needs to be brushed out between Hiiaka and Aloi Craters, and where the trail rounds Pauahi Crater, portions of the trail have apparently been carried away with a collapse of the crater rim and a short portion of new trail is needed in that area. Ranger Hartsveldt also reports that outlying toilet buildings are in a bad state of cleanliness especially the seats. Roadside trash clean up continued throughout the month.

Donations

An interesting discovery of a stone adz head was made on the east side of the Byron Sedge trail, Kilauea Crater by Miss Gaimor Lloyd, a Park Doctor on July 28. This unusually fine specimen was turned over ^{and analyzed} _{purpose of} Superintendent for the museum.

Research and Observations

After months of observations 2-4-D (Medicide) does not seem to be very effective against *Rubus penetrans*. It has been found however, very effective against a number of other exotic plant pests growing in the park.

7/4/47

August 1, 1947.

Memorandum for the Superintendent

Subject: Monthly narrative report on Ranger Activities
for July, 1947.

Investigation of new park areas or boundary changes

Considerable time was devoted to the boundary report. This was completed and included maps on the Hileaia and Haleakalae sections of Hawaii National Park.

Superintendent Oberhansley investigated the Kapehu lake area, near the northern end of the proposed coastal strip.

Maintenance

Park Warden Hauanio completed feeding stalls for the mules and horses at the corral and has done a fine job.

Minor telephone maintenance was performed by Ranger Lindsay. About seven reels of field wire have been checked at the C.C.C. Camp and necessary repairs made by Warden McCall, Hauanio and Ranger Kastenfeldt. This wire is being readied for the Mauna Kea telephone line.

In the sign program fifty miles of trail have been measured with the wheelometer & check for the accuracy of existing signs and to furnish correct mileage data for new signs where none exist. Some of the present signs ~~are~~ ^{were} off as much as 1.5 miles in a distance of less than 3 miles.

Increase in travel

Travel was very heavy in the park during the month with a corresponding increase in Volcano House guests.

Police Protection

The trial of Mario F. Janita, apprehended for speeding, came up before Judge Harry Brown, U.S. Commissioner on July 11. He was fined 25 dollars.

Frequent patrols were made and several visitors were warned about picking native vegetation.

Ranger Hartscheldt reports that while measuring the Pele Craters trail in the Kaw Desert, unexploded projectiles were found lying on the ground, some of them entirely intact. (6¹/₂ to 2¹/₂ in)

Wildlife

Herd of goats are beginning to reappear on favorite ranges in the southern Kilauea section of the park, also in the Mauna Loa section. Minor goat damage to native vegetation (*Odocoileus viscosus* var *spathulata*) was observed on the west side of the road to Kipuka Nene, about $\frac{1}{2}$ mile from the Chain of Craters road. An apparently small band of goat has been roaming this area, three of which have been shot. A total of 154 goats ~~were~~ destroyed during the month.

Fresh pig damage is particularly noticeable along the Crater Rim Road between Crater Chain of Craters road and the Lava Tube.

Forest Fire Protection

A small grass fire was discovered by Assistant Superintendent Ben Moomaw about 200 feet west of the parking area in front of Park Headquarters Building at about 11:40 P.M. on July 21. About 100 square feet of grass were burned. The fire was extinguished before the fire truck arrived. The fire apparently started by a carelessly tossed cigarette.

Building Fire Protection

The annual fire hazard inspection was completed and remedial action has been taken on some of the things noted. The Volcano House was inspected in accordance with F.O. 572 and 800-54 on July 25. Fire suppression training is in progress among Park Service personnel and will be extended to the Volcano House employees as soon as possible.

The installation of 9 fire hydrants ^{and new pressure system} and the completed erection of three 500,000 gallon water tanks is a valuable addition to our fire protection system.

Insects - Place under Research + Observation.

An unusually heavy infestation of cottony cushion scale insects (*Aspidiotus perniciosus*) was observed on a large *Stroussia* tree near the Mauna Loa Truck Trail on July 30. Injury to some of the branches was observed. This insect is also responsible for the sooty black mold which has covered the tree.

The light trap has revealed the presence of a destructive immigrant insect in the park.

Dr. O. H. Swezey, Consulting Entomologist of the H. I. P. A. has identified the insect as *Elaphria ruficollis*, a destructive insect in the larval or cutworm stage. This is the first record of its presence on an outside island, it having been discovered in a light trap at Hickam Field, Oahu, June 5, 1945. Nothing is known of its food habits in Hawaii. It is found in Florida and Texas as well as other parts of the world.

Interpretive

The Mauna Loa film was shown twice to a total of 51 people. Duration, one hour.

Respectfully submitted,
William J. Davis
Acting Chief Ranger.

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11 c 21 c

10-23
(May 1923)
6-7410

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

FILE NO.

Superintendent's Monthly Narrative Report

June, 1947

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

July 10, 1947.

Summary of June 1947 5-page Narrative Report for
Hawaii National Park

General Weather Conditions, p.1.- Precipitation at Kilauea 3.15"; at Haleakala 0.37". Maximum and minimum temperatures at Kilauea headquarters 78° and 47°. At Haleakala 78° and 30°.

Superintendent's Activities, p.1-2.- In Honolulu June 25-27 to attend meeting of Pacific Science Board, when 22 anthropologists arrived from the mainland to begin studies in the Micronesian Islands. While in Honolulu had interviews with Territorial Land Commissioner in re certain land problems in the acquisition of unacquired holdings in Kalapana extension; and with District Engineer FRA as to prospect of getting road from Hilo to park reconstructed. Made boat trip around island for purpose of getting first-hand information on the coast line and taking photographs.

Research and Observation, p.2.- Total number earthquakes in June at Nauna Loa, 48; at Kilauea, 45.

Conservation, p.2.- Robert G. von Tapesky was approved as park concessioner at Haleakala section under a one year permit and expects to begin furnishing visitor accommodations about the middle of July.

Water System, p.3.- Work continued in high gear on new water system and the laying of 1000 feet of 6" cast iron pipe completed during the month.

Travel, p.3.- At Kilauea section 21,963 visitors; at Haleakala 2101 visitors.

Visitors, p.3.- Major Gen. George H. Decker, Deputy Commanding Officer and Chief of Staff, Army Ground Forces Pacific, Acting Territorial Governor Long.

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

July 10, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of June, 1947:

General Weather Conditions

4.30 Maximum and minimum temperatures at Kilauea headquarters were 76° and 51 47°. At Haleakala ranger station these recordings were 75° and 43°. Total rainfall at Kilauea 3.15" and at Haleakala 0.37". This scanty precipitation in the Haleakala section caused considerable anxiety as to water supply at the ranger station but some heavy rains have since retrieved the situation.

Special Activities

The preliminary annual report for the Director was made and forwarded. The Superintendent was in Honolulu from June 25 to 27 to meet with President Sinclair, Dean Bachman and Dr. Leonard Mason of the University of Hawaii, who were coordinating the first contingent of antropologists of the Pacific Science Board during the coming twelve months. The first contingent, consisting of 22 antropologists from various universities and institutions on the mainland, arrived in Honolulu June 26 and the following day a meeting was held at the University, at which time the Superintendent spoke to the group for thirty minutes and suggested ways how their reconnaissance might be of value to this Service. Since the supply of site survey cards and Dr. Kelly's paper had not arrived for distribution to the group, this was explained to them. Fortunately, the cards and pamphlets did arrive later in time to get them into the hands of Dr. Mason who distributed them to the group before leaving for their field assignments in the Micronesian Islands.

While at Honolulu the Superintendent also conferred with the Supply Officer at Pearl Harbor and made tentative arrangements to procure short-wave radios to be used for inter-island communication between the two sections of the park, as well as other much-needed equipment which can be most easily procured through those channels.

He also visited with Land Commissioner Marks regarding certain of our land acquisition problems; District Engineer Frank R. Carlson of PRA; Dr. Macdonald of the U.S. Geological Survey Ground Water Division, and several other territorial officials and park friends.

On June 30 the Superintendent left for an inspection trip of the Haleakala section and to confer further with Mr. Robert G. von Tempsky, the newly appointed concessioner there, on special problems connected with his proposed operations.

The first week in June the Superintendent made a boat trip around the island accompanied by Billy Williams, Manager of the Olaa Sugar plantation,

RECEIVED AS FOLLOWS

Judge Martin Pence, and Luigi Giacometti, for the purpose of getting first-hand information on the coast line and taking photographs. The trip was made in Mr. Williams' boat.

The Superintendent spent five days in the field on week-ends patrolling and contacting visitors. This was done because our ranger force is so limited that what with days off we cannot carry on our protective activities unless we all assume part of this responsibility.

Concessioners

Robert G. von Tempky was approved as park concessioner at Haleakala section under a one year permit, and considerable assistance was given to him in planning his program. The following types of visitor accommodations will perhaps be in operation before the end of July: Overnight accommodations in the former officers club at the Haleakala base camp; meals will be served in the dining-room of the mess building, adjacent to which a pleasant lounge is being fitted up. Mr. von Tempky plans to specialize in steak dinners. Saddle and pack trips will be available through the crater, as well as bus transportation from docks, landing fields and hotels on Maui. Coffee and simple food, together with appropriate curios, film, etc., will be offered to sunrise and sunset visitors at the Observatory on the rim of the crater.

Research and Observation

The number of earthquakes recorded during the month were: Mauna Loa 48, Kilauea 45. The three perceptible shakes recorded during the month had origins as follows: June 14, 23:00, deep under Kilauea; June 19, 05:24 shallow under Kilauea; and June 26, 14:23, deep under the east slope of Mauna Loa.

A conspicuous fume cloud was observed over Mauna Loa about sundown on June 11. The slight accumulation of northerly tilt in June was about the normal seasonal. Slight westerly tilt continued until June 12, when normal easterly tilt set in. None of the cracks around Halemauau rim that were measured showed any appreciable movement.

As time permitted, Volcanologist Finch collected data for the Volcano Letter and prepared it for typing, also keeping routine correspondence up to date. When not engaged in naturalist duties, Mr. Powers spent the equivalent of about five days in connection with seismological routine. Some night work was spent on his manuscript on the Ash Deposits at Kilauea. Instrumentmaker Loucks, who had been out on sick leave since April 1 for an operation, returned to duty June 23.

Cooperating Government Agencies

When in Honolulu the Superintendent discussed with FRA District Engineer Frank R. Carlson the terrible condition of the road from Hilo to the park and requested that he try to give this road a high priority in the matter of reconstruction. He stated the only thing that was holding up the programming of that section was the fact that the County Commissioners and the County Engineer, in particular, had as yet submitted no report showing war damage and justifying

RECEIVED AS FOLLOWS

Cooperating Government Agencies (continued)

the expenditure of federal funds for this project. The road is beyond repair and Mr. Carlson stated it was planned to completely reconstruct the road from Hilo to the park to standard width.

K.M.C. submitted request together with necessary drawings to erect seven (7) additional cottages and a small warehouse, as they are receiving many more requests for reservations than they can accommodate with present facilities.

The Navy gave us approximately \$10,000 worth of Class 45 pipe fittings which should take care of all park needs for the next twenty years. A good portion of these fittings can be made available to other parks.

Water System

Assistant to the Superintendent Moomaw spent almost the entire month working on the water system, either supervising, inspecting, operating equipment, or actually caulking and welding pipe joints. Surveyed tank foundations (at Volcano House watershed) and located portion of new 6" water line; ran final levels for tank foundation sub-grades and center lines for concrete slabs, as well as final survey for 6" cast iron pipe line from pump house to Quarters #2; he spent several days grading foundations for six upper tanks.

At close of month grading had been completed for all tank area; forms for concrete installed; roof of watershed was raised to elevation required to correspond with new water tanks. Laying of 1000 ft. of 6" cast iron bell and spigot pipe completed.

Maintenance

Everyone in the park was especially busy throughout the month carrying on the various work projects in high gear, viz., the water system, major repairs and rehabilitation work, roads and trails, and new signing program. We are replacing all of our old worn out or obsolete signs with new routed and painted signs.

Cutting of grass and reshaping shoulders of the Kilauea Rim Road, Chain of Craters Road, and Uwekahuna Bird Park Road, was started during the month. We borrowed from the Territory a ditch digger to dig the ditches for the new water system. Rest of the month's activities were largely routine.

We have purchased 18 new electric hot water heaters to replace the old kerosene heaters which are expensive, cumbersome and a constant fire hazard. The new heaters are being installed in all quarters.

We also purchased 14 circulating oil space heaters as fireplaces are inadequate to provide heat during the cold rainy seasons, and the cost of wood over a period of two or three seasons will more than pay for the heating units.

RECEIVED AS FOLLOWS

Ranger Service

Chief Ranger Hjort left on June 23 for a three month vacation on the mainland, accompanied by his wife and daughter. Mr. Hjort has served in Hawaii National Park for eight years and has not been back to the mainland in that time. Park Warden McCall has been detailed to duty at Kilauea while Mr. Hjort is away.

Trails near Park headquarters and Kilauea Crater were measured in order to obtain the correct mileage data for new signs. A new sign was installed at the Hilo entrance and has attracted considerable attention. Trash cleanup on the Mamalahoa Highway and other park roads continued. This is a constant problem for the ranger department and the results are not encouraging, as the trash is ever present.

One arrest for speeding inside the park was made and the case will be heard before the U. S. Commissioner in Hilo tomorrow.

Rangers were on duty at two Volcano House dances.

The Mauna Loa Seismograph was changed every other day and the rain gauges were read twice during the month.

Building Fire Protection

The quarterly fire and sanitation inspection was made by Ranger Hartesveldt. The Volcano House fire hazard inspection was made by the Superintendent and the Acting Chief Ranger. Several deficiencies were noted and have been corrected.

Insect and Tree Diseases

The jerusalem cherry (*Solanum pseudo capsicum*) was found to be a new host record for *Dacus dorsalis* and *Ceratitidis capitata*, two extremely destructive fruit pests of the Territory. From 17 fruits there issued 11 of the former and 7 of the latter. In addition, 6 parasites also issued. The exotic host grows abundantly in Kipuka Ki and fruits prolifically.

Interpretation

The Acting Park Naturalist was on duty throughout the month. Interpretive work, seismological duties, geological field work and manuscript preparation occupied all available time. A total of five days was consumed by correspondence, filing, conferences, efficiency rating committee work, Board of Survey work, and procurement of supplies. Two days were consumed in maintenance of seismograph installations and three days were used on maintenance of seismographic records.

The scheduled interpretive program for June included two weekly talks and presentation of 1942 Mauna Loa Flow film at the Lecture Hall and two weekly conducted auto tours around Kilauea Crater. Special conducted auto tours of Kilauea Crater were taken by the Hilo High School and the Pahala High School graduating classes. A total of six days was devoted to this program.

Four days were devoted to field studies of the Kilauea surface ash beds, and five days spent in writing a manuscript on the subject of the explosive eruptions of Kilauea volcano.

RECEIVED AS FOLLOWS

Travel

At the Kilauea section there were 21,968 visitors, of which 655 were in the armed forces. At Haleakala there were 2101 visitors, no military.

Visitors

Major General George H. Decker, Deputy Commanding Officer and Chief of Staff, Army Ground Forces Pacific,
Acting Governor Long, Honolulu

(SGD) F. R. OBERHANSLEY

Frank R. Oberhansley,
Superintendent.



Example of routed signs being installed in place of
old illegible signs



Two new 100,000 gal. redwood tanks installed in clearing
made several years ago for bunk house



Installing 6" cast iron pipe pressure line for the
new water system in headquarters area

Mr. Robert G. von Tampsy in Haleakala Crater
showing the rare Silversword

Mr. von Tampsy is the new concessioner for
the Haleakala Section of the Park.



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

July 8, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for June, 1947 of Assistant to Superintendent
and Acting Park Engineer Benjamin F. Moomaw.

General

The undersigned spent almost the entire month working on the water system, either supervising, inspecting, operating equipment, or actually caulking and welding pipe joints.

Special Activities

June 4 - To Milolii, Kona to take Superintendent Oberhansley over to meet a boat in order for him to make a photographic of shore survey of this picturesque coast for the Service.

June 25, 27 - To Hilo on official routine business.

Inspections

June 26, 29 - Inspected road damage caused by accident of Hilo Transportation and Terminal Co., Ltd. tank truck that occurred on the night of June 25, no other vehicle was involved.

Plans, Maps and Surveys

2nd: Surveyed tank foundations, (at Volcano House water shed) and located portion of new 6" water line.

3rd: Routine work with Map and Plan File and P.C.P.

12, 16: Running levels and check levels for tank foundations.

18: Ran final levels for tank foundation sub-grades and center lines for concrete slabs.

19: Ran final survey for 6" cast iron pipe line from pump house to Quarters #2.

New Construction

6, 9, 10th: Installing 500' spiral weld pipe 6" diameter at Utility Area end of CCC line, this pipe is the manifold for connections to the two new 100,000 gallon redwood tanks installed in May, the present reservoir, the 2 tanks to read of wood shed and 4 tanks at Auto Repair Shop.

11-13, 16-18th - Grading foundations for 6 upper tanks.

20 : Supervising excavation for 6" cast iron B&S pipe line.

24, 25: - Caulking, tee, valve and fire hydrant assemblies for 6" C.I. pipe.

Public Health

13th - Due to extremely dry conditions prevailing for previous two weeks the whole water system was chlorinated.

Benjamin F. Moomaw
Benjamin F. Moomaw,
Asst. to Superintendent.

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

July 8, 1947

MEMORANDUM for the Superintendent.

Subject: Report Hawaiian Volcano Observatory for June

The numbers of earthquake recorded during the month were: Mauna Loa 48 and Kilauea 45. The three perceptible shakes recorded during the month had origins as follows: June 14, 23:00 deep under Kilauea; June 19, 05:24, shallow under Kilauea; and June 26, 14:23, deep under the east slope of Mauna Loa.

A conspicuous fume cloud was observed over Mauna Loa about sundown on June 11.

The slight accumulation of northerly tilt in June was about the normal seasonal. Slight westerly tilt continued until June 12, when normal easterly tilt set in.

None of the cracks around Halemaumau rim that were measured showed any appreciable movement.

Work of R. H. Finch

Routine correspondence was kept up to date. As time permitted, data for Volcano Letter was collected.

Work of H. A. Powers

When not engaged in the Naturalist's duties he spent the equivalent of about 5 days in connection with seismological routine. Some night work was spent on his manuscript on the Ash Deposits at Kilauea.

Work of B. J. Loucks

He was on sick leave until June 23. During the last few days of the month he worked on an electric clock, repaired the seismic annunciator and overhauled a driving clock for the Kona station.

Ruy H. Finch
Ruy H. Finch,
Volcanologist.

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

July 8, 1947.

MEMORANDUM for the Superintendent.

Subject: Report for month of June by General Foreman Const-Maint.

Water System- Completed grading all tank area; installed forms for concrete; raised roof of watershed to elevation required to correspond with new water tanks. Excavation and laying pipe was started during the month from park pump house toward new storage area. 1000 ft. of 6" cast iron bell and spigot pipe completed.

Roads & Trails- Cutting of grass and reshaping shoulders of the Kilauea Rim Road, Chain of Craters, and Uwekahuna Bird Park road, was started during the month.

We borrowed from the Territory a ditch digger to dig the drains for the new water system.

Rest of the month's activities were largely routine.

Herbert J. Quick
Herbert J. Quick,
General Foreman Constr-Maintenance

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

July 2, 1947

MEMORANDUM for the Superintendent.

Subject: Monthly Narrative Report of Ranger Activities for June, 1947.

Maintenance

Considerable repairs were made to some of the telephone lines, particularly the Mauna Loa line. Communication to the summit is now possible.

A new sign was installed at the Hilo Entrance and this has attracted considerable attention. Several people have been observed taking pictures of it.

Trash cleanup on the Mamalahoa Highway and other park roads continued. The former is a real problem for the Ranger Division as considerable time is involved and the results are not encouraging.

Approaches to Park Area

Repairs on the approach road to the park were made recently by the Territorial Highway and Maintenance Division.

Research and Observation

7 Ranger Hartesveldt has endeavored to find out whether roadside poisoning has had any toxic effect on wild life but thus far he has found no evidence.

Decrease in Travel

The travel trend fell off somewhat but is expected to increase during the summer months. Inclement weather part of the month may have been responsible.

Police Protection

X No arrests were made but several visitors were warned about picking native vegetation and throwing rubbish on the road. Two motorists were warned about minor traffic violations.

*Yes - arrest made by Dept & P.N. -
See P.N. report of this case
Hearing set for Fri. July 11*

Police Protection (continued)

Rangers were on duty at two Volcano House dances.

Window breakage on Quarters 13 was investigated.

Building Fire Protection

The quarterly fire and sanitation inspection was made by Ranger Hartesveldt. The Volcano House fire hazard inspection was made by Superintendent Oberhansley and the undersigned. Several deficiencies were noted.

Insects

Place under research

The Jerusalem cherry (*Solanum pseudo capsicum*) was found to be a new host record for *Dacus dorsalis* and *Ceratitis capitata*, two extremely destructive fruit pests of the Territory. From seventeen fruits there issued eleven of the former and seven of the latter. In addition, six parasites also issued. The exotic host grows abundantly in Kipuka Ki and fruits prolifically.

Accidents

One accident occurred near the Foot Print Trail on the night of June 25th. An investigation was made and is covered under a separate report.

Miscellaneous

Trails near Park Headquarters and Kilauea Crater were measured in order to obtain the correct mileage data for new signs.

Park Warden Hauanio and Ranger Lindsay made a trip to the Mauna Loa Summit for the purpose of bringing the blankets down. While on the trip an inventory was made at the top and at 10,000 feet. A total of 60 blankets were brought down. Of these, 44 are unserviceable.

The Mauna Loa Seismograph was changed every other day and the rain gauges were read twice during the month.

Park Warden McCall reported for temporary duty in the Kilauea Section.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Acting Chief Ranger.

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

July 2, 1947

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Police Protection (continued)

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Park Warden McCall reported for temporary duty in the Kilauea Section.

Respectfully submitted,

Clifton J. Davis,
Acting Chief Ranger.

Include in monthly report

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

Haleakala Section,
July 1, 1947

Memorandum for the Superintendent,

Subject, Haleakala Section Monthly Report for June, 1947.

The Haleakala Section experienced a very dry month and due to constant dry trade winds, often reaching gale proportions, our range shows signs of the drought although not yet seriously so. What little rain fell, 0.37 in., was more from wet fogs than from actual rain.

It was at times necessary to heavily water grass sod stock-piled for use in repairing the Halemau Trail to keep the sod alive. As a consequence our water supply has been the source of some worry but at the end of the month the situation was somewhat relieved. We also lost about 5,000 gals. when one of our 10,000 gal storage tanks sprung a leak in its bottom. This has, however, been repaired.

Fifteen large loads of excellent grass sod were obtained from the approach road just outside of the park when a crew of Territorial road workers graded the shoulders of that road. This sod had been stock-piled for use on the Halemau Trail. The Territorial crew spent over three weeks on the eight miles of "Bicycle Road" and succeeded in widening the shoulders on some of the bad curves and have improved the shoulders a great deal throughout its length. Perhaps a letter of appreciation to the Territorial Road Superintendent, A.L. Burdick with the suggestion that they again repair the surface of this road, now badly needed, would bring further results.

The Haleakala laborers spent most of the month on job #502 repairing the surface and eroded shoulders of the Haleakala Road with bitumuls. Much trouble was experienced with the pre-war bitumuls on hand as much of it had caked and separated, necessitating straining through screen before it could be pumped. The remainder of the laborers' time was spent in hauling the grass sod for Halemau Trail, job #506.

Our fire tools cache was renovated and put in order during the month and fire hydrants and hoses tested. A pipe railing for the Observation Station has been constructed but not yet installed. Paint for the Obs. Station interior is on hand and mixed. The unsightly barbed wire fence at the checking station was removed. Five Sunday morning Sunrises were attended with a total of 360 visitors present. A local contractor spent one day making repairs to the 4160 V Army high tension power line. He replaced several insulators and made tie-downs in several other places.

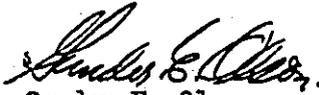
Fiscal year travel to this section of the park was slightly less than 19,000 (18,952). Use of cabin facilities within the crater was enjoyed by 474 persons, 97 of them this month.

Mr. William Crosby, Chief Territorial Forester, in company with Mr. Walter Holt, Ass'te. Forester for Maui, visited the park on June 12.

Haleakala Troop #6, a group of 13 Boy Scouts under Robert Shibasaki, Scoutmaster, spent three days in the crater, June 27, 28 and 29th.

Weather data for the month is as follows:

Maximum temperature,.....	75	(This was early in June. Max.
Minimum temperature.....	43	gradually decreased 10 degrees
Total Rainfall.....	0.37	during the month.)
Clear Days.....	11	
Partly Cloudy Days.....	16	
Cloudy days.....	3	


Gunder E. Olson,
District Ranger.

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

June 24, 1947

Memorandum for the Superintendent,

Subject; Trip through Haleakala crater, June 17-21, 1947, on patrol, checkup of buildings and installations and working on the goat control problem.

On this trip which covered the whole floor of the crater I observed very few goats actually on the crater floor. My estimate of goats seen on the actual floor is 25. With field glasses many more could be seen in various places along the inside crater rim. These were high on the palis and can descend only 1/4 to 1/3 of the way to the floor.

Most of the goats appear to enter the crater from the south side and west end. I checked at Waikane and Maunahina sections and would not recommend just fencing these areas as a solution to the problem. To keep goats out it would be necessary to fence the whole length of the south rim and Kaupo Gap.

On June 17, 1947 I observed 3 goats at Waikekeehia at Paliku. These 3 were destroyed and I cut them open and identified their recent foods as young ohelo berries and leaves, false dandelion and mixed grasses. Most of their food had been grasses.

On June 19, 1947 at Kaluanui, 5 goats were seen and I killed 3 of them. They could not be reached for feed checkup.

On June 20, 1947 at Kapalaoa, 4 goats out of a flock of 6 were killed and I found they had been feeding on young ohelo berries and leaves, young pilo berries and leaves, young pamakani leaves and mixed grasses. Most of it appeared to be grasses.

I could not take any pictures as this Section is out of film for the Park camera but it has been on order for some time.

A. B. Medeiros
A. B. Medeiros,
Ranger.

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

PUBLIC CONTACTS

Monthly Report

Haleakala Section,
 June, 1947

Conducted Trips	Number of Trips	Attendance	Duration
Mr. & Mrs. Carbyne			
Walks on Hikes			
M. L. Seismograph			
Other			

Talks	Number	Attendance	Duration
Museum			
Orientation			
Seismographs			
Other Sunrise at Obs. Station	5	360	1 hour

Outside the Park	Number	Attendance	Duration
Broadcasts			
Talks			
Replies to Inquiries			
Other			

Gunder E. Olson
 Gunder E. Olson,
 District Ranger.

10-23
(May 1923)
6-7410

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

FILE NO.

Superintendent's monthly Narrative Report

May, 1947

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

Summary of May 1947 6-page Narrative Report for
Hawaii National Park

Superintendent's Activities, p. 1-2. With Assistant Director Tolson made an inspection trip to the Haleakala Section. Conference had with Mr. Robert C. von Tempky who has been recommended as concessioner, using buildings of the Army Base Camp. New headquarters site 15 miles below present ranger station at Haleakala was inspected and Assistant Director agreed that site was far superior to the present one. Inspection trip around the Big Island was made. Reception and dinner given by Kilauea Military Camp in honor of the Tolsons.

Research and Observation, p. 2. Total number earthquakes in May at Mauna Loa 54 and 43; slight increase in number earthquakes originating under Kilauea.

General Weather Conditions, p. 2. Precipitation at Kilauea 4.91" and at Haleakala 3.34". Maximum and minimum temperatures at Kilauea headquarters were 74° and 45°. At Haleakala ranger station these recordings were 67° and 38°.

Cooperating Government Agencies, p. 2. Conference with Army District Engineer, Fort Armstrong, resulted in Army recommending Base Camp at Haleakala hold under special permit by Chief of Engineers be accepted by NPS with all improvements in lieu of restoration.

Water System, p. 3. The two 100,000 gallon tanks being erected in utility area now 100% complete.

Personnel, p. 6. Aloha dinner given by staff May 26 to bid good-bye to Park Naturalist Fagartund and Thad H. Dolman, Storekeeper, and to welcome incoming Ranger Hartesvaldt.

Travel, p. 5. At the Kilauea section there were 24,191 visitors, of which 213 were in the armed forces. At Haleakala these figures were 2070; no military.

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

June 13, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of May, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 74° and 45°. At Haleakala ranger station these recordings were 67° and 38°. Total rainfall at Kilauea 4.91" and at Haleakala 3.34".

Special Activities

Assistant Director and Mrs. Tolson remained in the park until May 8 when they departed by Hawaiian Air Lines for Honolulu en route to the mainland. Continuing his inspection of the park, Mr. and Mrs. Tolson and Superintendent and Mrs. Oberhansley inspected the Haleakala Section May 2-5. Unfortunately the weather was inclement and the planned pack trip into the crater had to be cancelled. A thorough inspection was made of the Haleakala Base Camp of the Army which it is hoped will soon be in operation under a business concession permit. The Assistant Director had an opportunity of conferring with the proposed concessioner, Mr. Robert G. von Tempsky, and agrees that he is exceptionally well qualified to offer necessary accommodations in that section of the park. Mr. von Tempsky has a fine ranch on the slopes of Haleakala, which will serve as a base of operations where he can keep his saddle and pack stock and raise his own beef for use in connection with the contemplated dining-room operation.

The Assistant Director also inspected the proposed new Haleakala headquarters site, situated on private lands at an altitude of approximately 3800 ft., some 15 miles below the present ranger station. He agreed with us that this site is far superior to our present 7,000 ft. location since the weather at that lower site is generally ideal, and it would be feasible to assign employees with children of school age to that section of the park as this site is within reasonable distance of the Kula road, which is served by school busses. We are investigating the possibility of securing approximately 40 acres at this lower elevation for a headquarters site by an exchange of territorial land for the privately owned land involved, and are proceeding with an operations plan as suggested by the Assistant Director.

May 6 and 7 the Tolsons were conducted on an inspection tour around the entire Big Island, spending the night at Kona.

Special Activities (continued)

On the evening of May 7 the Commanding Officer of Kilauea Military Camp, Col. James V. Ware, gave a fine reception and dinner in honor of the Tolsons. In addition to the park personnel and the officers of K.M.C., approximately one hundred leading citizens of Hilo and surrounding communities were in attendance. Orchid leis were presented to the Tolsons by Colonel Ware and the Assistant Director responded with a fine talk. Considerable favorable publicity has resulted from the Assistant Director's visit and several editorials in leading newspapers in the Territory reflect some of the values of his visit here.

Research and Observation

The total number of shakes recorded in May, as in the past 8 months was greater at Mauna Loa than at Kilauea, or 54 and 43 respectively. During the latter part of May there was a slight increase in the number of earthquakes originating under Kilauea. No perceptible earthquake was reported from Park headquarters area. Seasonal westerly tilt continued throughout the month. There was no tilt in the north-south direction. There was practically no movement at any of the cracks measured around the Halemaumau rim or along the Chain of Craters Road.

The Volcanologist spent part of three days in the field studying ash deposits. A manuscript dealing with volcanic vibrations was completed and sent to the Regional Office for approval. Work was started on a paper dealing with Kilauea in 1790 and immediately thereafter.

Geologist Powers was occupied by: (1) Routine seismological duties, care of instruments, study and pasting of records; (2) Research on Kilauea pyroclastic deposits, including several field trips and assembly of field notes from 1930-32 investigations; (3) Assumed duties of Park Naturalist the last week of the month in addition to other functions. The Mauna Loa seismograph trips, however, are being made for the most part by the Ranger force.

Instrument-Maker Loucks underwent a gall-bladder operation and was on sick leave the entire month.

Cooperating Government Agencies

Several conferences were had with Colonel Ware, Commanding Officer, K.M.C, regarding their development plan, and permission was secured for the erection of a paint shop and four additional water tanks in the camp area.

The Superintendent had a telephone conference with the Army District Engineer, Colonel B. E. Robinson, and Chief of Real Estate Division Rantzow, Fort Armstrong, relative to the cancellation of that portion of the permit involving the Base Camp at Haleakala held under special permit by the Chief of Engineers. Discussion was also had in this office with Inspector Negotiator Chelf, representing the District Engineer, and recommendation was made that the camp, with all improvements, be accepted in lieu of restoration.

Cooperating Government Agencies (continued)

Through the cooperation of the Commanding Officer at K.M.C., \$1800 worth of parts for three dump trucks and heavy equipment was procured from the Army Ordnance Division at Fort Shafter, and it is estimated we have enough parts to last until the trucks wear out. Parts for these trucks cannot be secured except through Army Ordnance as they are strictly military vehicles.

Cooperating Non-Government Agencies

Keahou Ranch has done a fine job on their new fence running up the north side of our Mauna Loa strip.

Water System

The two 100,000 gallon tanks being erected in the utility area are now 100% complete. Connecting lines from the CCC Camp, park reservoir, and adjacent buildings are in process of being connected and their present status is 99% complete.

Raising of roof on the rainshed above the old Volcano site was started. Excavation was completed on a strip 40 ft. wide by 220 ft. long adjacent to the watershed where six additional 100,000 gallon tanks are to be erected.

Hauling of 6" cast iron pipe acquired from surplus property at Hilo Naval Air Station was completed during the month.

Rehabilitation of gutters on all buildings was started and seven buildings completed to date. Requisitioning of materials for this account and resawing of 6,000 B.F. of lumber was accomplished.

Maintenance

Poisoning of grass encroaching pavement edges was completed on all park roads in the Kilauea Section. Patching and reshaping of road surfaces of Crater Rim road was carried out. Crusher was operated twice during the month, crushing approximately 120 cubic yards. A number of trails were brushed out and the Lava Tube trail repaired and patched. Ferns were brought in from other areas and planted along walks and obliteration of damage done by people taking short cuts was carried out.

Four new cars were received in knock-down condition and the park mechanic has been very busy assembling them with the help of a mechanic loaned to us from K.M.C.

Ranger Service

The ranger department went all out on telephone rehabilitation this month and made a good job of it. The terminal board for the switchboard was completely overhauled and relabeled so it can be followed. All pairs in the cables were tested and the proper listing of each pair was posted at the cable terminals. All overhead lines going across the highway between the office and Observatory were combined into one. Line #10 was checked and numerous useless wires removed. It was

Ranger Service (continued)

separated from the Observatory lines with a resulting trouble-free service to the Observatory. An emergency phone was installed at the CCC Camp. The seismograph impulse was superimposed over line #10 to Mauna Loa by a simplex circuit which has eliminated the nuisance of having the #10 drop fall every minute on the switchboard. Ranger Lindsay has been learning as much as possible about the telephone system in order that he can take care of it during the Chief Ranger's forthcoming leave of absence.

The arrival of Ranger Richard J. Hartesveldt added one more man to our small force. He is very rapidly becoming oriented in several phases of ranger work and has already covered a great deal of the park on foot.

No arrests were made this month. The vandalism at the Lava Tube seems to have subsided, due, no doubt, to the sign placed there.

Six lectures with movies (1 hour each) were given by rangers during the month, with an attendance of 241 visitors. Also they conducted three hikes with an attendance of 118 and two tours with 68 visitors.

Wildlife

Roadside damage by feral pigs became increasingly evident along the Chain of Craters Road. During periods of relative drought the small amount of drainage from road surfaces results in attracting pigs to these moist areas.

We are fortunate in having in Ranger Hartesveldt a trained wildlife technician, who will be assigned to special study, as time allows, of our pig and goat problem.

Building Fire Protection

Ranger Hartesveldt was given two workouts on the fire truck. He is now quite familiar with the operation of this piece of equipment.

Insect and Tree Diseases

As requested by the Superintendent, the Observatory building was checked for silver fish and cockroaches. None of the latter were seen but silver fish appear to be quite numerous. The shelves and books were dusted with D.D.T. One silver fish was observed walking over the dust and within five minutes became paralyzed. Room measurements were taken in preparation for fumigation at a later date.

Complete defoliation of acres of exotic Bermuda grass (*Cynodon dactylon*) in Bird Park and Kipuka Ki was observed during the month of May. This was caused by the Army worm (*Cirphis unipuncta*). No damage to native vegetation was observed.

A sickly appearance of many Aalii plants has been noticed between the Chain of Craters road and Kipuka Nene and along the Mamalahoa Highway to the Kau entrance.

Insect and Tree Diseases (continued)

Three insects, Amorbia emigratella, Archips postvittanus, and Lycaena blackburni are contributing factors, but a fungous disease? appears to be very active. Many of the branches are dying as well as some of the trees.

Exotic Animal Control

Seven goats were eliminated from the Kilauea section this month; 20 at Haleakala. No contract work was performed as no contract was let.

New Construction

Assistant to Superintendent Moomaw and General Foreman Quick completed the foundation excavation for six 100,000 gallon water tanks at the water shed over the weekend of 17-18th. This was necessary as we had use of Army equipment for this period and no other operators were available.

The feed and discharge pipe lines to and from the completed tanks were partially installed on the 21, 22 and 27th very little work remained on this job at month's end, bad weather on the 28 and 29 prevented the completion of this job.

Interpretation

Park Naturalist Fagerlund was on duty at headquarters through the month up to the 28th, when he departed on transfer to Olympic National Park. Much of his time was devoted to bringing the Naturalist's activities to an orderly termination for his successor. Together with Dr. Powers he consulted with Special Service Officer at Kilauea Military Camp on expanding the interpretive services. Two days were spent in acquainting Dr. Powers with the various aspects of the Naturalist's job. The Park Naturalist gave an illustrated talk on Hawaiian birds to 200 students at the Hilo Riverside School. Two days were spent on writing text for the Guide Map and complete data was obtained on its printing from Mr. Hybarger of the Hilo Tribune Herald. Dr. Powers has agreed to complete this project at the earliest opportunity. The article previously prepared for The Highway Magazine was revised and forwarded. One meeting of the Journal Club was held during the month. Mr. Finch reviewed recent books on geomorphology and the Park Naturalist reviewed an article on scientific writing.

The Natural History Association will publish the Guide Map and also a mimeographed bulletin on the geology of the Park called "Geology and the Scenery" by W. M. Eller, which will have some illustrations by A. L. Mitchell. All the stenciling is completed and ready for mimeographing.

Photographs were made of damage to ferns in the vicinity of Thurston Lava Tube.

Travel

At the Kilauea section there were 24,191 visitors, on which 213 were in the armed forces. At Haleakala these figures were 2070; no military.

Personnel

Ranger Richard J. Hartesveldt arrived May 19 and entered on duty the 20th.

Dr. and Mrs. Jaggar came early in the month to spend the summer here.

Mr. Thad H. Dolman, Storekeeper, submitted his resignation on the 15th, effective May 31.

Park Naturalist Fagerlund and family departed from the park May 28 en route to his new position as Park Naturalist at Olympic National Park.

Miss Mack was out ill the last two weeks in May but returned to work the first of June.

An aloha dinner was given by the staff on the evening of May 26 to bid good-bye to the Fagerlunds and the Dolmans, and to welcome the Hartesveldts to the park. Leis were provided for the outgoing and incoming. A dance was held at the Recreational Hall at the close of the dinner festivities.

Concessioners

We recommended that a business concession permit to Robert G. von Tempsky be approved for the Haleakala Section, and submitted the necessary forms and proposed schedule of basic rates to the Regional Director for the following types of accommodations and meals at the Base Camp; saddle and pack trips through the Crater; transportation of guests by car to the Base Camp from local air fields and docks, and adjacent towns; transportation from the Base Camp to the summit of the Crater to observe sunrise and sunset, and from the Base Camp to the beginning of crater trails.

Visitors

Assistant Director and Mrs. Tolson,
Robert G. von Tempsky,
Dr. and Mrs. O. H. Swezey. Dr. Swezey is Consulting Entomologist with the
Experiment Station, Hawaii Sugar Planters Association.
Mr. I. M. Chelf, Inspector Negotiator, (for Army District Engineer), Honolulu.

(SGD) F. R. OBERHANSLEY

Frank R. Oberhansley,
Superintendent.

cc: to Regional Director, Region Four (2)

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

June 3, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for May 1947 by Assistant to Superintendent
and Acting Park Engineer.

General

There follows the report of May 1947, all activities other than routine administrative duties are described in the following headings:

Special Activities

Surplus Property - Two days 1st and 6th were spent acquiring and searching out surplus property, an extra quantity of 6" cast iron bell and spigot pipe was secured, as well as the following, a spool of telephone cable to extend the underground system to the Observatory Building and a LeTourneau Rooter.

Inspection of Haleakala Section.

Departure was made on the 23rd for the Haleakala Section on a routine inspection. Ranger-in-Charge Olson was in the Naval Hospital, Kahului Air Station recovering from a tonsil operation, Warden McCall accompanied me on this inspection and during my interviews with Mr. Robert von Tempsky proposed concessioner, and Captain Hallet Commander, Kahului NAS in regard to the acquisition of surplus property. Other phases of this inspection were covered by special report. In general, this section of the Park looked better than I have ever seen it during the last ten years.

Plans, Maps and Surveys

Foundation surveys were made for the installation of six, 100,000 gallon tanks along side the water shed and location survey was run for the feed and discharge lines at the two tanks already completed in the Utility Area.

One day was utilized on revisions of PCP Jobs and the compilation of a Physical Improvements Priority List. These were submitted to Region IV on 16th.

New Construction

Assistant to Supt Moomaw

The undersigned and General Foreman Quick completed the foundation excavation for six 100,000 gallon water tanks at the water shed over the weekend of 17-18th. This was necessary as we had use of Army Equipment for this period and no other operators were available.

The feed and discharge pipe lines to and from the completed tanks were partially installed on the 21, 22 and 27th very little work remained on this job at months end, bad weather on the 28 and 29 prevented the completion of this job.

Benjamin F. Moomaw

Benjamin F. Moomaw,
Asst. to Superintendent.

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

June 3, 1947

MEMORANDUM for the Superintendent.

The following report of Ranger activities for the month of May 1947 is respectfully submitted:

General Complaints

Several verbal complaints were turned in by visitors who were stopped on the traffic count. All were asking why some sort of shelter was not provided for the Ranger on duty and also why pamphlets could not be distributed as people were checked in.

One complaint, also verbal, was asking why the information at Halemaumau was removed and no information of any kind was there now.

George Larson on his return from Mauna Loa stated on the back of his permit, "Entire cabin needs over-hauling."

Maintenance

The terminal board for the switchboard was completely overhauled and relabeled so it can be followed. All pairs in the cables were tested and the proper listings of where each pair made was posted at the cable terminals.

All overhead lines going across the highway between the office and Observatory were combined into one.

Line #10 was checked and numerous useless wires removed. It was separated from the Observatory lines with a resulting trouble free service to the Observatory.

A new line was run to Quarters # 28

An emergency phone was installed at the CCC Camp.

The seismograph impulse was superimposed over line #10 to Mauna Loa by a simplex circuit which has eliminated the nuisance of having the #10 drop fall every minute on the switchboard.

All telephone lines in the park below the end of the truck trail were inspected. All useless connections were removed. Ranger Lindsay has been learning as much as possible about the telephone system in order that he can

Maintenance (continued)

take care of same during Chief Ranger's absence. He has checked and oiled all patrol phones in the park.

The corral and pasture fences were put in shape where weak.

A new rubbish container was placed at the lower entrance of Thurston Lava Tube.

Concessioners

The lack of horseback trips in Kilauea section was commented on by several visitors. George Lycurgus continues to keep horses for pets but to date has not furnished the public with saddle horses.

Cooperating Non-governmental Agencies

Keahou Ranch has done a fine job on their new fence running up the north side of our Mauna Loa strip.

Interpretive Service

Six lectures with movies with a total of 241 visitors attending were given by rangers throughout the month.

Also 3 hikes were conducted with a total attendance of 118 visitors and 2 tours with 68 visitors.

Movies	-	1 hour each
Hikes	-	1 to 2 hours
Tours	-	1½ hours

Visitors

Dr. O. H. Swezey and wife have been visiting the Park for the past 2½ weeks. Dr. Swezey is Consulting Entomologist with the Experiment Station, H. S.P. A.

Ranger Service

The arrival of Ranger Richard Hartesveldt added one more man to our small force. We could use at least 2 more rangers here.

Police Protection

No arrests were made this month. The vandalism at the Lava Tube seems to have subsided due, no doubt, to the sign placed there.

Several people were warned for minor traffic violations.

Wildlife

Several birds were observed dead along the Chain of Craters road. One pig was found dead on the area between the old Keahou road and Chain of Craters road. The spraying of roadside with poison might be responsible.

Forest Fire Protection

The poisoning of the grass along the roadsides has created an additional fire hazard in the most likely place for a cigarette to be thrown.

Building Fire Protection

Ranger Hartesveldt was given two workouts on the fire truck. He is now quite familiar with the operation of this peice of equipment.

Insect and Tree Diseases

As requested by the Superintendent, the Observatory building was checked for silver fish and cockroaches. None of the latter were seen but silver fish appear to be quite numerous. The shelves and books were dusted with D.D.T. One silver fish was observed walking over the dust and within five minutes became paralyzed. Room measurements were taken in preparation for fumigation at a later date.

Complete defoliation of acres of exotic Bermuda grass (*Cynodon dactylon*) in Bird Park and Kipuka Ki was observed during the month of May. This was caused by the Army worm (*Cirphis unipuncta*). No damage to native vegetation was observed. Unfortunately the grass will recover.

A sickly appearance of many Aalii plants has been noticed between the Chain of Craters road and Kipuka Nene and along the Mamalahoa Highway to the Kau entrance. Three insects, Amorbia emigratella, Archips postvittanus, and Lycaena blackburni are contributing factors, but a fungous disease? appears to be very active. Many of the branches are dying as well as some of the trees.

Exotic Animal Control

Seven goats were killed in the park this month. No contract work was performed as no contract was let.

Miscellaneous

Ranger Hartesveldt is very rapidly becoming oriented in several phases of ranger work and has also covered a great deal of the park on foot.

Frank A. Hjort
Frank A. Hjort,
Chief Park Ranger.

✓
Miscellaneous

Four new cars were received in knock-down condition and the park mechanic has been very busy assembling them with the help of a mechanic loaned to us from K.M.C.

All other activities were of routine nature.

Respectfully submitted,

Herbert A. Quick
Herbert A. Quick,
Foreman C & M.

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

June 5, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for May.

The total number of shakes recorded in May, as in the past 8 months, was greater at Mauna Loa than at Kilauea, or 54 and 43 respectively. During the latter part of May there was a slight increase in the number of earthquakes originating under Kilauea. No perceptible earthquake was reported from Park headquarters area.

Seasonal westerly tilt continued throughout the month. There was no tilt in the north-south direction.

There was practically no movement at any of the cracks measured around the Halemaumau rim or along the Chain of Craters Road.

Work of R. H. Finch

Parts of 3 days were spent in the field studying ash deposits. A manuscript dealing with volcanic vibrations was completed and sent to the Regional Office for approval.

Work has been started on a paper dealing with Kilauea in 1790 and immediately thereafter.

Work of H. A. Powers

He was occupied by: (1) Routine seismological duties, care of instruments, study and pasting of records; (2) Research on Kilauea pyroclastic deposits including several field trips and assembly of field notes from 1930-32 investigations; (3) Assumed duties of Park Naturalist the last week of the month in addition to other functions. The Mauna Loa seismograph trips, however, are being made for the most part by the Ranger force.

B. J. Loucks was operated on and on sick leave during May.

R. H. Finch

Ruy H. Finch,
Volcanologist.

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

May 26, 1947

Memorandum for the Superintendent:

As a result of observations made while on goat drives as well as discussion with the contractors the following additions to the contract for the removal of goats are recommended;

1. That each bidder be required to have the following written permits;
 - (a) To cross or otherwise use Shipman land with goats, riding animals, and trucks.
 - (b) To cross C. Brewer & Co. land along the south and west boundaries of the park with riding animals and trucks for the purpose of removing goats.
 - (c) To cross any Territorial land necessary to gain access to the park with guns, riding animals, and trucks. To drive the goats across Territorial land where necessary to trap them on park land.
2. That each bidder either have at his disposal or be able to produce reasonable proof that he can obtain the following;
 - (a) Fifteen (15) or more head of riding stock, properly shod, with riders, for each drive conducted.
 - (b) A truck or combination of trucks capable of hauling sixty goats at a time over the rough terrain from the holding pens.
 - (c) At least twenty-five footmen willing to go on any drives where they are needed.
 - (d) A holding pen outside the park where captured goats can be held and fed until sold.
3. That the successful contractor handle the goats in a humane a manner as possible, killing any animals with painful injuries.
4. That the successful contractor kill all goats, where possible, that attempt to escape while on the drive. Also that all goats be killed which show signs of weakness or lagging behind while being driven. The meat from these animals may be retained by the contractor.
5. That any small kids not wanted by the successful contractor may be killed in the first pen and not counted with the goats to be paid for.
6. Where ever possible the park boundary fences are to be used in the capture of goats. All such fences are to be maintained at the expense of the contractor.

7. Any contractor who in the opinion of the Superintendent has discharged his duties properly for the length of the contract may have an extension of time equal to the length of the original contract with the same privileges at the end of each extension period.

Frank A. Hjort
Frank A. Hjort
Chief Park Ranger

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

May 19, 1947

MEMORANDUM for the Superintendent.

The telephone system within the park has been in a confused state of affairs for some time due to work done during the war by personnel not trained to do telephone maintenance work.

The following recommendations and list of work already accomplished is submitted for your approval.

Recommendations

Transfer the following phones to line #15.

6 (Watljen)
7 (Lindsay)
8 (Medeiros)
9 (Lee)
27-1 (Ah Sing)
27-2 (McMenamin)
28-B (Lt. Jeffers)

This will divide the load with 14 phones on line #15 and 14 phones on line #8.

Harmony?
Install a phone for connection to Hilo line in Naturalist's quarters #15 and in Chief Ranger's quarters #20. ~~Also install a phone in Chief Ranger's quarters #20.~~ Also install a phone in Chief Ranger's quarters #20 to lines #10 (Mauna Loa) and #14 (Hilina Pali) for early and late patrols as well as emergencies.

Put up signs at Hilo Entrance, Kau Entrance, Makaopuhi, and Bird Park phones which would read "Emergency Telephone".

Change the directory list for quarters so it shows the rings for lines #8 and #15 only as each home is not concerned with what the rings are on lines they cannot reach except through the switchboard.

Change the rings to the following:

Line #8

<u>Name</u>	<u>Ring</u>
Davis	SSSL
Finch	SSL
Fujimoto	SSLL
Hartesveldt	LLLL
Hjort	SSS
Kim	LL
Loucks	LSL
Moomaw	SS
Oberhansley	LS
Powers	SL
Quick	SSSS
Quarters 2	LSSS
Quarters 5	SLLL
Quarters #15	LSS

Line #15

<u>Name</u>	<u>Ring</u>
Ah Sing	LSSL
Garage	SLSS
Hauanio Jr.	SLLS
Hauanio Sr.	SLSL
Jeffers	SSLS
Lee	SLS
Lindsay	LLL
McMenamin	LLSS
Medeiros	LLSL
Peleiholani	LSLS
Pump House	LSLL
Waltjen	LLS
Warehouse	SLL
Quarters #13	LLLS

Line #9

CCC Camp	SL
Lava Tube	SS
Sign Shop	SSS

Line #10

	<u>Ring</u>
Bird Park	SS
Chief Ranger	SSS
Corral	SS
End Truck Trail	SS
Kau Entrance	SS
Mauna Loa Rest House 10,000 ft.	LL
Mauna Loa Rest House Summit	LLL
Rock Crusher	SSSS

Observatory Line #19

Foreman's Office	SSSS	(Same as residence ring)
Geologist's Office	SL	(" " " ")
Instrument Maker's Office	LSL	(" " " ")
Naturalist's Office	LSS	(" " " ")
University Building	SS	(.....)
Volcanologists Office	SSL	(Same as residence ring)

<u>Line #11</u>	<u>Ring</u>	<u>Line #14</u>	<u>Ring</u>
Halemaumau	SS		
Hilina Pali	SS	KMC	S
Kipuka Nene	SS		
Makaopuhi	SS		

<u>Office</u>	<u>Ring</u>
Plug #1 Supterindent's Office	S
#2 Chief Clerk's "	S
#3 Chief Ranger's "	S
#4 Asst. to the Supt. Office	S
#5 Secretary's Office	S
#6 Information Counter	S

Line #20

Chief Ranger	SSS)	When connected to Hilo
Naturalist	LSS)	line #7, ring will be
Superintendent	LS)	LS.

Remove the phone entirely from the Volcano House that is on line #8. It was not answered when it was working -- the Volcano House people resent it. It has been disconnected now for over a month with very few complaints on the part of the park people. The Volcano House will be on the Hilo line to Supt. residence, Naturalist residence and Chief Ranger residence so in case of fire or other emergency there are phones enough.

Work Already Accomplished

A dozen or more connections to line #10 have been removed. Some were hangovers from the war while some were simply illegal lines connected to outsiders by the former Superintendent.

The Observatory was removed from line #10 and put on a separate drop on the switchboard.

The seismograph impulse was put on a simplex circuit so it no longer causes the #10 drop to be released every minute on the switchboard.

All lines crossing the road both overhead and underground were incorporated into one group that now cross in one place instead of three. (The underground cable across the highway is no longer serviceable.)

A new line was installed to quarters #28 (Finch)

An outside phone was installed at the CCC Camp for emergency use with a connection running over to the sign shop to be used with field phone when the Rangers work there.

All cable terminals were checked and properly labeled.

The switchboard terminal board was also checked and labeled with quarters numbers rather than by names of people who lived here ten years ago. A list of present occupants of quarters was posted alongside the board.

All lines were checked and many connections not now necessary were removed.

Two phones at fire cache #1 and #2 on Mauna Loa have been removed.

(Each Ranger car is to carry field phone for calling in from anywhere). *Done*

Frank A. Hjort
Frank A. Hjort,
Chief Park Ranger.

June 3, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for May 1947 by Assistant to Superintendent
and Acting Park Engineer.

General

There follows the report of May 1947, all activities other than routine administrative duties are described in the following headings:

Special Activities

Surplus Property - Two days 1st and 6th were spent acquiring and searching out surplus property, an extra quantity of 6" cast iron bell and spigot pipe was secured, as well as the following, a spool of telephone cable to extend the underground system to the Observatory Building and a LeTourneau Rooter.

Inspection of Haleakala Section.

Departure was made on the 23rd for the Haleakala Section on a routine inspection. Ranger-in-Charge Olson was in the Naval Hospital, Kahului Air Station recovering from a tonsil operation, Warden McCall accompanied me on this inspection and during my interviews with Mr. Robert von Tempsky proposed concessioner, and Captain Hallet Commander, Kahului NAS in regard to the acquisition of surplus property. Other phases of this inspection were covered by special report. In general, this section of the Park looked better than I have ever seen it during the last ten years.

Plans, Maps and Surveys

Foundation surveys were made for the installation of six, 100,000 gallon tanks along side the water shed and location survey was run for the feed and discharge lines at the two tanks already completed in the Utility Area.

One day was utilized on revisions of PGP Jobs and the compilation of a Physical Improvements Priority List. These were submitted to Region IV on 16th.

New Construction

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The feed and discharge pipe lines to and from the completed tanks were partially installed on the 21, 22 and 27th very little work remained on this job at months end, bad weather on the 28 and 29 prevented the completion of this job.

Benjamin F. Moomaw,
Asst. to Superintendent.

RECEIVED AS FOLLOWS

10-157
(July 1944)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

James E. Olson
Gunder E. Olson,
Ranger in Charge

MONTHLY TRAVEL REPORT

Haleakala Section, Hawaii National Park
(Name of Area)

May 19 47
(For month of)

THIS MONTH	THIS TRAVEL YR. TO DATE	THIS FISCAL YR. TO DATE
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PRIVATE MOTOR VEHICLES

1. XXXXXXXX First entry	Civilian	4438	2629	3597
2. XXXXXXXX Reentry	Military	8	184	359
3. Total private motor vehicles		4446	2813	4316

VISITORS

4. By common carrier:				
a. Train				
b. Bus				
c. Airplane				
d. Boat				
e. Total (a, b, c, and d)				
5. By private motor vehicles		1847	11515	16377
6. Other				
7. Total visitors (4e, 5, and 6)		1847	11515	16377
8. Number of visitors in armed forces included in total (item 7)		28	754	1645



VISITOR DAYS

9. Paid facilities			
10. Public campgrounds (Campers)			
Civilian	4	126	540
11. Other Military	0	0	37
12. Total (9, 10, and 11)	4	126	577
13. Total visitor days (7 and 12)	1851	11641	16754

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



Haleakala Section,
May 31, 1947

MEMORANDUM for the Superintendent,
SUBJECT, Haleakala Section Monthly Report for May, 1947.

The Ranger in Charge was confined to the hospital two weeks this month with a tonsil infection which culminated in the removal of the affected glands. As a consequence, little was accomplished this month on our utilities' renovation program. Park visitation was normal throughout the month although we experienced considerable rain and high winds.

Mr. and Mrs. Hillory A. Tolson, Superintendent and Mrs. Oberhansely and Mr. Vern Hinkley, managing Editor of the Star Bulletin visited this section May 2nd to 5th and made a general inspection of the area but were prevented from making the crater trip by inclement weather. Ass't. to the Superintendent, Benjamin Moomaw made an inspection of this section May 23rd to 26 th.

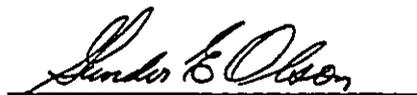
The park laborers were kept on road shoulder maintenance during the month and have the upper end of the Haleakala Road in excellent condition. Maintenance of the Halemauu Trail will be begun next month.

One patrol trip was made into the crater during the month and 20 wild goats were destroyed.

On May 9th the 1942 Eruption Movie was shown and a talk given to a gathering of the Saint Anthony School alumni at Wailuku. Sixty seven persons were present.

Weather data for the month was as follows:

Maximum temperature,	67 degrees
Minimum temperature,	38 degrees
Total rainfall,	3.34 inches
Clear days,	8
Partly cloudy days,	11
Cloudy days,	12


Gunder E. Olson,
Ranger in Charge

June 5, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for May.

The total number of shakes recorded in May, as in the past 8 months, was greater at Mauna Loa than at Kilauea, or 54 and 43 respectively. During the latter part of May there was a slight increase in the number of earthquakes originating under Kilauea. No perceptible earthquake was reported from Park headquarters area.

Seasonal westerly tilt continued throughout the month. There was no tilt in the north-south direction.

There was practically no movement at any of the cracks measured around the Halemaumau rim or along the Chain of Craters Road.

Work of R. H. Finch

Parts of 3 days were spent in the field studying ash deposits. A manuscript dealing with volcanic vibrations was completed and sent to the Regional Office for approval.

Work has been started on a paper dealing with Kilauea in 1790 and immediately thereafter.

Work of H. A. Powers

He was occupied by: (1) Routine seismological duties, care of instruments, study and pasting of records; (2) Research on Kilauea pyroclastic deposits including several field trips and assembly of field notes from 1930-32 investigations; (3) Assumed duties of Park Naturalist the last week of the month in addition to other functions. The Mauna Loa seismograph trips, however, are being made for the most part by the Ranger force.

B. J. Loucks was operated on and on sick leave during May.

Ruy H. Finch,
Volcanologist.

10-23
(May 11/29)

6-7410

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

FILE NO.

Superintendent's monthly Report for April, 1947.

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

6-7410

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

May 9, 1947.

Summary of April 1947 6-page Narrative Report for
Hawaii National Park

Superintendent's Activities, p.1.- Made almost daily inspections of various work projects, 2-way radio investigated and attempt being made to acquire two transmitters and receivers for use between Kilauea and Haleakala sections. Spent considerable time showing around important visitors, including Admiral Carson, in charge of the cruiser group in port during the month, who with seven of his staff spent three days in the park.

General Weather Conditions, p.1.- Precipitation at Kilauea 6.51" and at Haleakala 0.95". Maximum and minimum temperatures at Kilauea 76° and 45° and at Haleakala 63° and 44°.

Inspections, p.1.- Assistant Director Tolson accompanied by Mrs. Tolson arrived in the park April 25 and during the balance of the month a thorough inspection of the Kilauea section was made as well as Kilauea Military Camp.

Cooperating Government Agencies, p.3.- Approximately \$15,000 worth of lumber, pipe, pipe fittings, roofing, wall-board etc. acquired from Army and Navy without exchange of funds for use on future P.C.P. projects.

Research and Observation, p.2.- 41 earthquakes recorded at Kilauea and 49 at Mauna Loa, considerably less than last month, but there was an increase in the number of perceptible earthquakes, six being recorded in an interval of 1 hour and 40 minutes the morning of April 12, two of which were felt at Kapapala.

New Construction - Water Tanks, p.3.- Foundations for two tanks completed and one tank completed less cover and pipe connections.

Luau given by Staff for Mr. and Mrs. Tolson, p.6.- On the evening of the 26th the staff gave a luau in recreational hall in honor of Mr. & Mrs. Tolson

Travel, p.5.- At the Kilauea section there were 25,581 visitors, of which 192 were in the armed forces. At Haleakala these figures were 2,070 and 97.

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DEPARTMENT OF THE INTERIOR
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File
May 9, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of April, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 78° and 48°. At Haleakala ranger station these recordings were 63° and 44°. Total rainfall at Kilauea 6.51" and at Haleakala 0.95".

Special Activities

The superintendent made almost daily inspections of various work projects. Two-way radio was investigated and we are now in the process of attempting to acquire two transmitters and receivers for use between the two sections. Communications Officer at NPO is attempting to secure EC-610 transmitters and EC-342 receivers to experiment with and if they are found to be satisfactory we will try to secure them under Public Law 478. We have been advised they have them in excess of their needs in Oahu.

On the 15th a group of Rotarians visited the park in connection with the Rotary International district convention held on the Island of Maui. The superintendent showed them over the park. Mr. Charles Cadwaladar represented the President of Rotary in assisting with the convention.

Dr. and Mrs. George R. Hill were here on the 16th and 17th. Dr. Hill was the superintendent's major professor in geology at college. He is now in charge of plant relations and chemical investigations for the American Smelting & Refining Company.

Admiral Carson, who is in charge of the cruiser group recently in port, and seven members of his staff spent three days in the park, from the 20th to 22nd inclusive. Of interest in this connection, Captain Moore, who is the skipper of the Cruiser ATLANTA, was a former geology student of the superintendent when he taught school.

Inspections

On the 25th Assistant Director Hillary A. Tolson and Mrs. Tolson arrived. They were met at the Hilo airport and taken to Rotary for lunch, after which they inspected the tidal wave damage along the waterfront and then were brought up to the park. The 26th was spent largely in showing them about the park and on the 27th the superintendent drove them to Kalapana.

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Inspections (continued)

On the 28th a conference was held at headquarters with the staff when Mr. Tolson, with the help of the new organization chart, stressed and explained National Park Service organization in a very illuminating way and answered any and all questions the employees wish to ask.

On the 29th Mr. Tolson, Judge Martin Penco, Nick Lycourgos and the Superintendent hiked over the 15 mile Kalapana trail from the end of the Chain of Crater road to Kalapana. Mr. Tolson had a good opportunity to inspect most parts of the proposed Kalapana Extension on the ground and seemed very enthusiastic over what he saw.

On the 30th Mr. Tolson and the Superintendent made a complete inspection of the Kilauea Military Camp in company with Colonels Ware and King, at which time they conferred on mutual problems, including water. On the same day inspection was made of the water supply from the deep well at Oloa. By and large, Mr. Tolson inspected the Kilauea Section very completely.

Leases

On the 28th Mr. Bradford Sumner, Manager of Kapapala Ranch, came in for a conference with the Superintendent and Mr. Tolson, at which he requested that the lease to Kapapala Ranch for grazing be renewed for an additional year in view of the fact that by June, 1948, they must make plans for ranch operations based upon leases that can be secured from the Territory on a reasonable basis. At that time decision must be made as to how many cattle the ranch can carry in view of the range available. In view of that problem we agreed to request extension of the permit for an additional year with the understanding that no renewal of this permit would be made after June 10, 1948.

Research and Observation

The number of earthquakes recorded at Kilauea and Mauna Loa during April was 41 and 49 respectively, considerably less than in March. However, there was an increase in the number of perceptible earthquakes. Six earthquakes, two of which were felt at Kapapala, were recorded in an interval of 1 hour and 40 minutes on the morning of April 12. The shakes originated at three different places and thus have but little volcanic significance. Most of the earthquakes recorded in April appear to have originated under the northeast rift of Mauna Loa or under Mokuaweoweo. There was a slight accumulation of westerly tilt and no accumulation in the north-south direction during the month. Seasonal southerly tilt definitely ceased about March 1, or much earlier than usual. The crack along the Halemauau rim at the tourist observation place opened slightly. Other measured cracks showed no appreciable movement. As routine work permitted, the Volcanologist worked on the manuscript to be entitled "Volcanic Vibrations." One-half day was spent on the ash deposit in the Kau Desert.

Seismological routine took up most of Dr. Powers' time. Whenever possible he worked on the ash deposits of Kilauea. He spent seven days in Honolulu where he copied the Volcano Letter mailing list and checked it against the U.S. Geological

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Research and Observation (continued)

Survey local mailing list. Several hundred envelopes were addressed to receive copies of the review of Geology and Water Resources on the Island of Hawaii. About 75 universities were added to the Volcano Letter mailing list. He had conferences with Dr. G. A. Macdonald of the U.S. Geological Survey, officials of the U.S. Coast and Geodetic Survey, and with President Sinclair of the University of Hawaii. In company with Dr. C. K. Wentworth he inspected the installation of the Coast and Geodetic Survey at Barber's Point where mechanical recording seismographs are to be installed and kept under observation 24 hours a day for tidal wave warning purposes. Until the Barber's Point station starts to function, probably in 3 or 4 months, we should keep our telescism warning system in operation.

New Construction - Water Tanks

Assistant to the Superintendent Mooney spent a portion of each work day inspecting and/or supervising work on the water system project. Foundations for two tanks were completed and one tank completed less cover and pipe connections during the month. He inventoried and appraised the water system of the Volcano House in preparation for its transfer to the Government.

Co-Operating Government Agencies - Surplus Property

Mr. Mooney spent the 2nd, 7th, 11th, 21st and 24th acquiring and securing surplus, excess and non-inventoried construction and building materials from inactivating and other Army and Navy installations on the Island. He and General Foreman Quick have been working very closely the past months with Army and Navy authorities on this and within the last month have secured approximately \$15,000 worth of lumber, pipe, pipe fittings, roofing, wall-board, etc., for use on future P.C.P. projects, current maintenance work and the water system for which we have a grant of \$10,600 to replace lost water storage tanks. All materials acquired, except some from the HAA, have come to us for merely hauling them away as it represents odd lots remaining from the enormous stock piles maintained on this Island by the Army, Navy and Marine Corps during the war. No materials that will rust, rot or spoil in storage have been acquired. Much more can be secured as it is located from time to time in the future. A partial list follows:

Wall-board 900 sheets,	value	\$5,000
6" Water Pipe and Fittings,	"	5,000
Lumber,	"	3,000
Miscellaneous items, tools, small equipment,		2,000

These items plus others previously acquired will cut the initial cost of many of our P.C.P. jobs in half for many years to come.

Maintenance

Foreman Quick was at Haleakala from the 4th to the 11th to start rehabilitation of the Observatory Building and make road and trails inspection. At Kilauea the road crew completed the patching of Mamalahou Highway and some shoulder reshaping, and are now in process of repairing and reshaping shoulders of the Crater Rim road, including Halemauou parking area. Work has been completed on the trails in Bird Park, where the Superintendent gave instructions on the ground and demonstrated the type of trail maintenance work to be carried on. These trails were completely restored to an average width of 2 feet with a minimum of pruning. The two water tanks being

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Maintenance (continued)

installed in the Utility Area at the close of the month were 97% and 27% complete. The pipe obtained from Surplus Property for the water system, including fire hydrants, was picked up and hauled to the site during the month. Other routine work was performed.

Ranger Service

Chief Ranger Hjort was on Maui from the 4th to the 11th and while there effected the sale of 11 surplus park miles and made an inspection trip through the Crater. New signs of the redwood type were made and taken to Haleakala to replace all signs on the checking station gate. A new sign was also installed at the summit warning people of the dangers of high altitude on drivers' reaction.

At Kilauea all paved roads in the park were cleaned every day the past month and all rubbish removed while on patrol. Each outside telephone in the park except the ones on Mauna Loa was cleaned, oiled and otherwise serviced. New batteries were installed and repairs made where needed. The horse paddock fence was repaired and improved and training of the recently acquired horses continued. Eleven head of stock were sold and almost all have been removed from the park. Four horses were destroyed. Some ranger time was spent in helping on the survey board.

Protection

Two arrests were made this month. One for speeding on Mamalahoe Highway and the other for picking fern fronds at the Lava Tube. The speeder got a \$15 fine. The other party being a minor was given a suspended sentence for 13 months. A great many contacts were made with bus drivers and people in general at the Lava Tube while rangers were stationed there. All were cautioned about plant destruction as well as being given interpretive information. In the matter of ferns we do have a problem there, as the natives like to eat these fronds as they open up and many tree ferns have been killed in the past through that practice. We are now in process of educating the public to understand that they must not pull off these fronds inside the park.

Reforestation and Nursery Activities

95 Ohia seedlings were set out in areas to be obliterated, such as old roads, war use scars, etc.

The papala cuttings set out several months ago have taken root. Ranger Davis reports there are only two of these trees in Bird Park.

A third application of 2-4 D was made on the blackberries, etc. Observations continue.

Several Pittosporum seedlings from the Great Crack area were transplanted to a richer soil mixture. This is a very difficult tree to work with.

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Forest Protection

The contractor made two goat drives in Kilauea during the month and took out 129 goats. Over 200 goats were destroyed as a result of these two drives. In the Haleakala Section 84 goats and one pig were destroyed during the month.

Building Fire Protection

Routine fire equipment inspections were performed weekly. The grass was removed from around the fire hose shelters.

Travel

At the Kilauea Section there were 25,581 visitors, of which 192 were in the armed forces. At Haleakala these figures were 2,070 and 97.

Interpretation

The Park Naturalist was on duty in the park throughout the month. Interpretive services, scheduled and special outside the park, and work directly incidental to these consumed the bulk of his time. A day was given to work connected with duties as chairman of the Efficiency Rating Committee and one day on Survey Board activities. Filing and correspondence consumed about two days. A surplus property Bell & Howell 16 mm. sound projector was received and two days were spent cleaning and repairing this machine for operation.

The scheduled interpretive program for April consisted of two weekly programs at the Observatory. Several special orientation talks were given to groups of visitors brought to the park by the Matayama Bus Company and one orientation was given at Kilauea Military Camp. The rangers at Haleakala gave Sunday morning sunrise programs at the Observation Station and Ranger-in-charge Olson gave an illustrated talk to 355 students and teachers at Makawao, Maui. The Park Naturalist gave 8 illustrated programs at Kohala to the following groups:

	<u>Number present</u>	
University of Hawaii Extension Class -	25	- 2 hrs.
Kohala Lions Club, -	250	
Haleakala School -	95	
Kohala School (5 programs) -	760	

A day was spent mounting 75 kodaslides and 2 days were devoted to the text for a road and trail guide map. Assembling and mailing the Exotic Plant Bulletin was completed.

Number of Hawaii National Park
booklets on hand

An inventory of our stock shows we have on hand approximately 14,000 copies of this booklet.

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Miscellaneous

On the evening of the 26th the staff gave a typical and authentic Hawaiian Luau in honor of Mr. and Mrs. Tolson, in our recreational hall at the old CCC Camp. The ladies of the area, haoles (white) and Hawaiian, banded together and decorated the hall in true Hawaiian floral fashion, and it was a lovely picture with the windows framed in bamboo branches and long ferns, with bright colored flowers stuck all over them. Luau (pronounced loo-oo) is Hawaiian for feast and it always includes a pig roasted whole in the ancient manner, thusly: A pit is dug in the ground large enough to hold the pig and accessories. A fire is made of wooden chunks in the pit and stones are put in the fire and made very hot. When the fire dies down to ashes armfuls of leaves from the Ti plant are laid over the hot stones to generate steam for cooking the pig. This underground oven is called an Imu. The pig is cleaned and scraped and its interior also filled with hot stones. It is then tied together and placed for convenient handling on a strip of woven wire fencing and four men lower it down into the pit and cover it with more Ti leaves and spread a piece of canvas over it to keep the dirt off, when the earth is shoveled in again. It is left there for three to four hours and when uncovered it is a delicious brown on the outside and thoroughly baked and so are the potatoes. Four men lift up the wire netting and the pig is transported to the kitchen for serving.

In addition to this principal feature of a luau, there is always a variety of fish, some fried, some raw, and of course the popular native dish Poi, which is made by grinding the root of Taro into a meal-like powder. Poi takes the place of bread to the Hawaiians and is about the only starchy food in their diet. It is served in generous size bowls and is eaten by the natives with the fingers. This requires considerable dexterity as when cooked it is of the consistency of thick white sauce. No Hawaiian luau is complete without the customary desserts made of coconuts which the Hawaiian women are skilled in making, namely, Kulolo, made out of taro, coconuts and honey, which must be cooked for 12 hours. By that time it is thick and quite hard and is cut into squares for serving. The other dessert, Hapiia, is made of coconut juice and corn starch, and is stiff enough to be eaten out of the hand. As a concession to the haoles, the staff ladies baked a generous array of gorgeous cakes in the best mainland tradition. Instead of table cloths, the tables are strewn with ferns and petals of many colored flowers. During the dinner the native Hawaiian orchestra (recruited from our park laborers) played and four young Hawaiian girls danced various forms of the hula. On the whole it was quite a bust.

Visitors

Mr. Charles Cadwalader, representing President of Rotary at Maui convention,
Dr. and Mrs. George R. Hill,
Admiral Carson, in charge of cruiser group recently in port,
Mr. & Mrs. Hillory A. Tolson.
Miss Kay Simpson, formerly of Director's office, Washington



Assistant Director and Mrs. Tolson near
Administration Building shortly after their arrival
in Hawaii National Park.



On trail across Kau Desert to Pit Craters - a 7 mile hike.
Left to right: Nick Iyorgus, Mrs. Tolson, Mr. Tolson,
Mrs. Maggioros (daughter of George Iyorgus) and Isidore Maggioros.



Along the Kalapana Trail. A 15 mile hike
from Chain of Craters road to Kalapana Coast



Assistant Director Tolson, Judge Martin Penno and
Nick Iyousgas at Hermit Cottage on Kalapana trail.



A Luma was given by the staff on April 30 honoring Assistant Director and Mrs. Tolson.



Assistant Director and Mrs. Tolson observing removal of pig from pit (in Hamilton called on egg)



Tree Fern near Lava Tube damaged by varidala. A Japanese was arrested for breaking fronds at this point.



Close-up showing broken fronds of same Fern Tree



Several thousand feet of 6" spiral weld end cast iron pipe was procured from surplus for the new water system. H&C assisted in hauling pipe with low beds and drivers.

Incorporate highlights into Mrs. Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
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Haleakala Section,
April 30, 1947

MEMORANDUM for the Superintendent,
SUBJECT: Haleakala Section Monthly Report for April, 1947.

GENERAL.

Kahului, Maui, was visited by the following destroyers of Destroyer Squadron 7, based at Pearl Harbor, during the month; USS Allen M. Sumner, USS O'Brien, USS Laffrey, USS Lowrey, USS Barton, USS Moale and USS Robert K. Huntington and the submarines, Sterlet (SS392) and Bugara (SS331). Only a very small percentage of the personnel of these ships visited the park, probably through lack of properly promoted transportation.

One hundred forty six members of Rotary International of Hawaii District convened at Kahului on April 18 and 19. Most of these people visited the park as guests of Maui friends. A delegation of 15 Veterans of Foreign Wars of Honolulu visited the park and viewed Sunrise on April 20. Forty Boy Scouts from Hilo, Hawaii, under the charge of Maui Scout Executive, Harold Stein motored to the summit on April 4. Character actress, Beula Bondi of Hollywood visited the park April 14. Park visitation was above normal throughout the month with a peak of 69 counted cars on April 20. Travel was unusually heavy the six days of the Easter School vacation.

WEATHER CONDITIONS.

Spring weather prevailed throughout April with only a few days of heavy wind and showers. Visibility from the Observation Station was good during the days of heavy visitation and very few visitors had disappointing views. Grass pasturage on the northwest flank improved considerably during the month and the native vegetation appears now to be fully recovered from the winter frosts. Mamani foliage appears especially luxuriant this year.

INSPECTIONS.

General Foreman Quick and Chief Ranger Hjort visited this area April 4 to 11. Mr. Quick began repair work on the Haleakala Observation Station and laid the ground work for the diesel heater being installed in the existing wood stove. Repair of the wind damaged roof, replacing broken fenestration and exterior painting is reaching completion at the end of the month. Chief Ranger Hjort effected the sale of eleven surplus park mules and made an inspection trip through the crater while here.

MAINTENANCE.

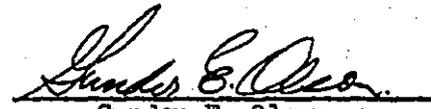
The four park laborers were employed on repair work at the Obs. Station April 7 to 30 and April 1 to 7 on repair of road shoulders. Considerable cleanup and alteration work was done in the old CCC warehouse buildings and the park workshop was remodeled by the park warden and ranger in charge (acting). The four new type signs made at Kilauea for the checking station gate and the caution sign for the summit were installed. Warden McCall made incidental repairs to tools, fences, installations, etc., at the four crater cabins during a weeks' stay in the crater.

INTERPRETIVE SERVICE.

A talk and eruption movie was presented for 343 students and 12 teachers of Makawao School on April 24. Contacts and talks were made to a total of 146 persons at the Observation Station on Sunday mornings at sunrise.

WILDLIFE MANAGEMENT.

Eighty four goats and one pig were destroyed in the park during the month. Warden McCall spent 10 days in the crater, mostly on goat extermination work.


Gunder E. Olson,
Acting Ranger in Charge.

May 5, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for April.

The numbers of earthquakes recorded at Kilauea and Mauna Loa during April, 41 and 49 respectively, were less than in March. However there was an increase in the number of perceptible earthquakes. Six earthquakes, 2 of which were felt at Kapapala, were recorded in an interval of 1 hour and 40 minutes on the morning of April 12. The shakes originated at 3 different places and thus have but little volcanic significance. Most of the earthquakes recorded in April appear to have originated under the northeast rift of Mauna Loa or under Mokuaweweke.

There was a slight accumulation of westerly tilt and no accumulation in the north-south direction during the month. Seasonal southerly tilt definitely ceased about March 1 or much earlier than usual.

The crack along Halemauau rim at the tourist observation place opened slightly. Other measured cracks showed no appreciable movement.

As routine permitted work was done on a manuscript to be entitled "Volcanic Vibrations". One half day was spent on the ash deposits in the Kau Desert.

Seismological routine took up most of Dr. H. A. Powers' time. Whenever possible he worked on the ash deposits of Kilauea. He spent 7 days in Honolulu where he copied the Volcano Letter mailing list and checked it against the U.S. Geological Survey local mailing list. Several hundred envelopes were addressed to receive copies of the review of Geology and Water Resources of the Island of Hawaii. About 75 Universities were added to the Volcano Letter mailing list.

He had conferences with Dr. G. A. Macdonald of the U.S. Geological Survey, officials of the U.S. Coast and Geodetic Survey, and with President Sinclair. In company with Dr. C. K. Wentworth he inspected the installation of the Coast and Geodetic Survey at Barbers Point where mechanical recording seismographs are to be installed and kept under observation 24 hours a day for tidal wave warning purposes. Until the Barbers Point station starts to function - probably in 3 or 4 months we should keep our teleseism warning system in operation.

Work of Instrument Maker Loucks

In addition to assisting in the seismograph routine, he made a bitumals sprayer tip, worked on the road crusher, helped Mr. Fujimoto set up the lathe in trailer, aided Mr. Fagerlund on a movie projector, and made and installed a new drum carriage for the Hilo seismograph. He was on sick leave for 2 1/2 days on April 9-11 and from April 21 until end of month.

Ruy H. Finch,
Volcanologist.

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



PUBLIC CONTACTS

Monthly Report

Haleakala Sect.

April, 1947

Conducted Trips	Number of Trips	Attendance	Duration
Auto Caravans			
Walks or Hikes			
M. L. Seismograph			
Other			

Talks	Number	Attendance	Duration
Museum			
Orientation			
Seismographs			
Other Observation Sta. (Sunrise)	3	146	3/4 hr.

Outside the Park	Number	Attendance	Duration
Broadcasts			
Talks			
Replies to Inquiries	2		
Other (Talk & Erupt. movie)	1	355	1 hr.

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May 5, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for April, 1947 of Assistant to Superintendent and Acting Park Engineer B. F. Moomaw

General

Approximately half of the month was spent on routine Administrative duties, the remaining time was utilized as noted below:

Special Activities

2nd, 7th, 11th, 21st and 24th acquiring and securing surplus, excess and non-inventoried construction and building materials from inactivating and other Army and Navy installations on the island. General Foreman Quick and the undersigned have been working very closely with Army and Navy authorities on this and within the last month have secured approximately \$15,000 worth of lumber, pipe, pipe fittings, roofing, wall board etc. for use on future P.C.P. projects, current maintenance work and the water system for which we have a grant of \$10,600 to replace lost water storage tanks. All materials acquired, except some from the WAA, have come to us for merely hauling it away, as it represents the odd lots remaining from the enormous stock piles maintained on this Island by the Army, Navy and Marine Corps during the war. No materials that will rust, rot or spoil in storage have been acquired. Much more can be secured as it is located from time to time in the future.

A partial list follows:

Wall board 900 sheets value	\$5,000
6" water pipe and fittings	5,000
Lumber	3,000
Miscellaneous items, tools, small equipment, etc.	2,000

These items plus others previously acquired will cut the initial costs of many of our P.C.P. Jobs in half, for many years to come.

Plans, Maps, Surveys

14th continued the indexing and filing of maps and plans.

16th began initial surveys for water system project now in progress so that work crew could begin erecting the first two 100,000 gallon tanks.

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New Construction

A portion of each work day was spent inspecting and/or supervising work on the water system project.

Foundations for two tanks were completed and one tank completed less cover and pipe connections during month.

Concessions

1st, 3rd and part of 7th I inventoried and appraised the water system of the Volcano House in preparation for its transfer to the Government, this was the subject of a special report.

Co-operating Government Agencies

See "Special Activities" above.

Safety

25th attended the regular K.M.C Safety Council Meeting.

Benjamin F. Moomaw,
Asst. to Superintendent.

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May 8, 1947.

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report

The two water tanks being installed in the Utility Area are at the point where one is 97% complete and the other 27% as of close of the month. The pipe obtained from Surplus Property for the water system, including fire hydrants, were picked up and hauled to the site during the month.

From the 4th to 11th of the month I spent on Maui to begin rehabilitation of the Observatory Building and make a road and trail inspection.

At Kilauea the road crew completed the patching of Mamalahoa Highway and some shoulder reshaping and are now in process of repairing and reshaping shoulders of the Crater Rim road, including Halemaumau parking area.

Roads and Trails- The Superintendent gave instructions on the ground and demonstrated the type of trail maintenance work to be carried on. The trails in Bird Park were completely restored to an average width of 2 ft. with a minimum of pruning.

Herbert J. Quick,
Foreman.

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May 5, 1957

MEMORANDUM for the Superintendent.

The following report of ranger activities for the month of April 1947 is respectfully submitted:

Maintenance

✓ All paved roads in the park were cleaned every day this month. All rubbish was removed while on patrol.

✓ Each outside telephone in the park except the ones on Mauna Loa was cleaned, oiled, and otherwise serviced. New batteries were installed and repairs made where needed.

✓ Line #10 to Mauna Loa continues to be a source of trouble and again caused several man days labor for repair.

✓ The horse paddock fence was repaired and improved. A new hitching rack was installed in the corral as the old one would not stand the strain the young horses frequently put on it.

C Routine fire equipment inspections were performed weekly. The grass was removed from around the fire hose shelters.

Protection

All paved roads in the park were patrolled at least once a day. Several patrols being performed each day on weekends. The Lava Tube was cleaned every day this month and as many as five times on Sundays. One patrol was made to the Pepee area and the seacoast. One patrol was also made to Halepe.

Two arrests were made this month. One for speeding on Mamalahoa Highway and the other for picking fern fronds at the Lava Tube. The speeder got a \$15.00 fine. The other party being a minor was given a suspended sentence for thirteen months.

Night checks on equipment etc. have been made in the area at oddly staggered hours and dates.

Several early morning patrols were made on the Chain of Craters Road and one on the Mauna Loa Truck trail.

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Protection (continued)

A great deal of time has been spent in watching the Lava Tube area for fern picking and other damage.

Other investigations and followups in connection with local police reports will be covered in a separate report.

Signs

New signs of the redwood routed type were made and taken to Haleakala to replace all signs on the checking station gate. A new sign was also installed at the summit warning people of the dangers of high altitude on driver reaction.

New signs were installed at Makaopuhi, Kilauea Iki, and the quarters #1 driveway. One stop sign was replaced in the maintenance area.

A warning sign was taken from Uwekahuna and placed at the Lava Tube to try and help stop the vandalism to vegetation there.

Work continues on signs for both here and the Haleakala Section.

Fifty-eight nature trail signs were repaired and set out in the following places: Lava Tube, Kilauea Iki, Steaming Bluff Trail, Sandalwood Trail, and Bird Park.

Travel

Travel figures were slightly lower this month than last. Military traffic other than K.M.C. continued to fall off due to the closing of military installations all over the islands. There were estimated to be only 122 military visitors not guests or attached to K.M.C. Heavy trucking accounts for most of the night traffic.

Travel count was taken for three days including one weekend.

Flora

Ninety-five Ohia seedlings were set out in areas to be obliterated such as old roads, war use scars etc.

The papala cuttings set out several months ago have taken root. Ranger Davis reports there are only two of these trees in Bird Park.

A third application of 2-4, D was made on the blackberries etc. Observations continue.

Exotic Animal Control

One cat was killed this month. A new batch of cats has appeared on the scene here. Trapping continues.

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Exotic Animal Control (continued)

129 goats were taken out of the park by the contractor in two drives. Over 200 were killed as a result of these two drives besides the ones removed.

A dog was found killed on the highway between the Hilo Entrance and headquarters.

Ranger Guide Service

Ranger Davis showed Mauna Loa 1942 Eruption pictures to six people - duration 1/2 hour.

Ranger Lindsay took 50 girl scouts for a hike around the park area and through the Lava Tube.

A great many contacts were made with bus drivers and people in general at the Lava Tube while rangers were stationed there. All were cautioned about plant destruction as well as being given interpretive information.

Miscellaneous

Training of the recently acquired horses continued.

Kelana Eleven head of stock were sold, and almost all have been removed from the park. 10 mules 1 horse + 4 ♂ were destroyed

Four horses were destroyed.

Some ranger time was spent in helping on the survey board.

Frank A. Hjort,
Chief Park Ranger.

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NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII

May 5, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report for April, 1947 of Assistant to Superintendent
and Acting Park Engineer B. F. Moomaw

General

Approximately half of the month was spent on routine Administrative duties, the remaining time was utilized as noted below:

Special Activities

2nd, 7th, 11th, 21st and 24th acquiring and securing surplus, excess and non-inventoried construction and building materials from inactivating and other Army and Navy installations on the island. General Foreman Quick and the undersigned have been working very closely with Army and Navy authorities on this and within the last month have secured approximately \$15,000 worth of lumber, pipe, pipe fittings, roofing, wall board etc. for use on future P.C.P. projects, current maintenance work and the water system for which we have a grant of \$10,600 to replace lost water storage tanks. All materials acquired, except some from the WAA, have come to us for merely hauling it away, as it represents the odd lots remaining from the enormous stock piles maintained on this Island by the Army, Navy and Marine Corps during the war. No materials that will rust, rot or spoil in storage have been acquired. Much more can be secured as it is located from time to time in the future:

A partial list follows:

Wall board 900 sheets value	\$5,000
6" water pipe and fittings	5,000
Lumber	3,000
Miscellaneous items, tools, small equipment, etc.	2,000

These items plus others previously acquired will cut the initial costs of many of our PGP Jobs in half, for many years to come.

Plans, Maps, Surveys

14th continued the indexing and filing of maps and plans.

16th began initial surveys for water system project now in progress so that work crew could begin erecting the first two 100,000 gallon tanks.

New Construction

A portion of each work day was spent inspecting and/or supervising work on the water system project.

Foundations for two tanks were completed and one tank completed less cover and pipe connections during month.

Concessioner

1st, 3rd and part of 7th I inventoried and appraised the water system of the Volcano House in preparation for its transfer to the Government, this was the subject of a special report.

Co-operating Government Agencies

See "Special Activities" above.

Safety

25th attended the regular K.M.C Safety Council Meeting.

Benjamin F. Moomaw
Benjamin F. Moomaw,
Asst. to Superintendent.

*Kim - B - D
Miss Mack*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO 54, ILLINOIS

No. FO 497

No. FO 497

December 26, 1946.

mut

MEMORANDUM for All Field Offices.

In order that the Office of Information may be kept currently informed as to existing supplies of all publications, both free and sales, it will be necessary hereafter, effective immediately, to include in each monthly narrative report of superintendents, custodians, and supervisors a statement as to the number of copies of free and sales publications on hand as of the end of the month for which the report is submitted. The statement should also cover supplies in the hands of a natural history association or other local sales agent.

Orders for the purchase or delivery of publications from the Superintendent of Documents will continue to be submitted as heretofore, but they should be routed through the Washington Liaison Office in order that a record of them may be made there. It is believed that, by keeping closer track of orders and supplies, it will be somewhat easier to anticipate needs of all types of publications issued by the Service.

Newton B. Drury
Newton B. Drury,
Director.

O-504 Publications.

*Above to be included in
Jan report and thereafter*

Show in Feb. ans rep



10-23
(May 1923)
6-7410

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

FILE NO.

Superintendent's monthly Report

March, 1947

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

File

April 9, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of March, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 75° and 46°. At Haleakala ranger station these recordings were 69° and 31°. Total rainfall at Kilauea 13.39" and at Haleakala 4.01".

Special Activities

March 1 Regional Director Tomlinson and the Superintendent met Secretary Krug and party at the Hilo Naval Air Station and took them to the park for lunch. The Regional Director executed ten Hui-O-Pele certificates for the Secretary and nine members of his party. Brief inspection of KMC and park was made, then on to Kona for a luau, March 2. Return to Hilo where the Regional Director, Representative Farrington, Assistant Secretary Davidson, Congressman Paulson of California, and Lt. Gen. Kisaner departed on a C-54 to the mainland. Secretary Krug and other members of his party were transported from Kona to Honolulu in a Navy sea plane.

March 12-14 the Superintendent was in Honolulu to attend the annual meeting of Hui-O-Pele and to meet with the Directors of Hawaii Volcano Research Association and attend a meeting at the University where the Pacific Research program was discussed by Dr. Compton of Massachusetts Institute of Technology, Dr. Sinclair of University of Hawaii, and others. Hui-O-Pele voted to set aside cash in the treasury of that organization amounting to more than \$6200 to assist in the park's museum development program. HVRA has previously indicated their interest in assisting with our library program by offering \$3000 of the Association's funds toward employing a librarian for a period of one year to catalog the park library.

A visit was also made to the Surplus Property Office in Honolulu where 3300 ft. of 6" pipe and 12 fire hydrants were procured under Public Law 478 for use in reconstructing the park water system. The above items were found in excess at Hilo Naval Air Station.

March 20-21 ^{H.C.} Dr. Sinclair, President University of Hawaii, Dr. Compton, President M. I. T., and Dr. Bevis of Ohio State University, visited the park, and, together with University Regents and local citizens, were taken on a three-hour trip about the park. An illustrated talk was presented to the group in the evening.

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Special Activities (continued)

March 24-28 was spent in the Haleakala section. Mr. Colin Lennox, Director of Territorial Division of Forestry and Agriculture, and Commissioner David Fleming of Maui stayed the night of March 24 at Haleakala and the following day was spent exploring the north rim of Haleakala crater to Mt. Haleakala, returning to Red Hill along the 7100 ft. contour where Mr. Lennox desired to construct a road or trail to permit hunting goats on territorial lands adjacent to the park. The terrain proved to be much rougher than was expected and construction costs preclude making this development.

Conferences were had on Maui with applicants for concessions in the Haleakala section and District Ranger Olson was introduced to Maui Rotarians at their weekly meeting. Chief Clerk Kim accompanied the Superintendent to Maui to make a complete inventory of all government buildings and equipment.

Research and Observation

There was a distinct increase in seismicity during March with 53 earthquakes recorded at Kilauea and 62 at Mauna Loa. The strongest of the 7 perceptible shakes occurred at 23:06 on March 19. Its indicated origin was 5 miles east of Hokuawoowe at a depth of 25 miles.

The SW tilt usual for this season of the year ceased about the last of February and was not resumed in March. The lack of SW tilt may partially be explained by the fact that the mean temperature for March was lower than that for February.

There was but little movement at any of the measured cracks near the Halomau-mau rim or along the Chain of Craters road.

The Volcanologist finished a manuscript dealing with the mechanics of the explosive eruption of Kilauea in 1924. Some work was done on a general study of volcanic vibrations. Routine correspondence, part of the seismologic routine, and consultations took up most of his time not spent on manuscripts.

Dr. Powers' time was largely taken up by seismological routine. The rest of his time was devoted to research on tilt; participation in the naturalist program, consisting of 4 talks on seismology; and one talk on geology; attendance at a meeting in Hilo regarding installing sirens for tidal wave alarm.

In addition to assisting in seismological routine, Instrument Maker Loucks worked on parts for tractor and rock crusher for the maintenance department, a drum carriage for the Hilo seismograph, and on shop tools and equipment.

Maintenance

The entire month for the road crew was spent in patching and repairing shoulders on the Mamalahoa Highway. The new portable rock crusher was set up and put into operation to produce rock and sand necessary to the erection of the water tanks. Quarry operations were started at the old prison camp. The General Foreman spent several days searching for and obtaining excess and surplus pipe and fittings for the new water system. Other activities were routine in nature.

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Ranger Service

The usual telephone line trouble made it necessary to spend considerable time repairing the lines. Two coils had been burned out as a result of lightning on Mauna Loa. Park Warden Hauannio spent the better part of the month breaking and training the two new horses recently purchased. Ranger Medeiros was on annual leave the entire month. Constant patrols were made throughout the month. An all night travel count was made continuously from 8:00 A.M. on the 21st to 5:00 P.M. on the 22nd. The result indicated an increase in travel through the park. Work continued on making new signs, for which Warden Hauannio spent some time preparing redwood posts. The Koa plots on Mauna Loa were checked by Ranger Davis and fences repaired where needed. A large portion of ranger time was spent picking up rubbish along park roads.

Interpretation

The Park Naturalist was on duty at headquarters throughout the month. Time was devoted to interpretation, research, correspondence, and various administrative activities. Interpretive contacts exceeded those of previous months. A number of requests for special services were received and fulfilled. Several illustrated talks were given outside the park. Requests from schools are coming in response to offers made to the Department of Public Instruction to give illustrated talks in the schools of the Island. An interesting development in this connection is the studying of National Parks by many classes in the public schools of the Island.

The Park Naturalist spent 2-1/2 days preparing an article on the park that will appear in The Highway Magazine in June or July. Eight days were spent completing "Exotic Plants of Hawaii National Park", a natural history bulletin. A new glass beaded 8 x 8 foot projection screen was received and installed. This is a most worthwhile piece of equipment. The improvement in projected picture brightness is possibly 100 per cent.

Monthly statistical report of interpretive services is attached; also program for April.

Forest Protection

Two goat drives in Kilauea netted a total of 171 goats; at Haleakala 11 goats were destroyed.

Insects and Tree Diseases

Ranger Davis reports that Dr. O. H. Swezey has confirmed the identity of mamani defoliators as Mecyna kirens and that a defoliator of naio has been very active in the forests.

Exotic Plant Control

A second application of 2, 4-D was made on blackberries near Thurston Lava Tube. Results seem quite favorable. The morning glory sprayed some time back has practically vanished.

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Travel

At the Kilauea section there were 43,439 visitors, of which 698 were in the armed forces. At Haleakala these figures were 1559; no military.

Building Fire Protection

A fire drill and explanation of a CO₂ fire extinguisher was given employees of the Volcano House. Each employee was taught to use a CO₂ extinguisher by actually operating one. Every housewife in the park was also taught to use the extinguisher in her home.

Miscellaneous

On March 17 Col. Henry B. Clark and Mrs. Clark, together with their son and daughter-in-law, called for a pleasant visit and reminisced on his duty as com-officer of the army attachment in Sequoia National Park in 1899. Colonel Clark participated in the 50th anniversary celebration of Sequoia National Park held in Visalia, Calif., in 1940.

Visitors

Julius A. Krug, Secretary of the Interior,
C. Girard Davidson, Asst. Secretary of the Interior,
Carlton C. Skinner, Dept. of Information, Dept. of Interior,
Dr. Roy Sexton, Special Assistant to Secretary of the Interior,
Rex Lee, Associate Director, Division of Territories,
Roy James, Division of Territories,
Congressman Norris Paulson, California,
Congressman Clair Engle, California,
Lt. Gen. August W. Kissner, U. S. Army Air Corps,
Lt. Col. E. N. Schuler, Aid to Secretary of Interior,

Dr. & Mrs. Young (Regional Director Weather Bureau)
Col. Henry B. Clark (retired) and Mrs. Clark, their son and daughter-in-law,
Dr. Karl T. Compton, President Massachusetts Institute of Technology, and wife,
Dr. Howard L. Bevis, Pres. Ohio State University, and wife,
Mr. Gregg M. Sinclair, Pres. University of Hawaii, and wife,
Board of Regents of Hawaii University.

Frank R. Oberhansley,
Superintendent.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

F R E E

N A T U R A L I S T P R O G R A M S

At Park Lecture Hall

April, 1947

Every Monday, 3:30 P.M.

Earthquakes and Seismographs - A popular talk on how Hawaiian
volcanoes are studied. DR. POWERS

Every Wednesday, 3:30 P.M.

1942 Eruption of Mauna Loa - An informal talk illustrated with
Kodachrome movies. MR. FAGERLUND

Any party of ten or more persons desiring an interpretive talk or a
guided hike or tour should submit a request to the Superintendent at
least 24 hours in advance.

FRANK R. OBERHANSLEY,
Superintendent.

GUNNAR O. FAGERLUND,
Park Naturalist.

Copies of this program schedule may be obtained on request.



Regional Director at Park Headquarters
Left to right: Chief Clerk Kja; General Foreman quick;
Regional Director Tomlinson; Chief Ranger Hjort; Ranger
Lindsey; Supt. Oberhansley.



Secretary Krug's plane upon arrival at Hilo NAS.



Regional Director Tomlinson greeting Secretary of Interior Krug upon his arrival at Hilo NAS March 1, 1947.



Robt. S. Moir, Secretary Hilo Chamber of Commerce, and County Committee Chairman Glen Akin with Secretary Krug at Hilo NAS.



Secretary Krug, Regional Director Tomlinson, and
Harry Blichman, Managing Editor Hilo Tribune,
at Hilo IAS.



Beginning of 3 hr. conducted trip about Park for distinguished visitors Mar. 20. 1st row R. to L. Mr. Sinclair, Pres. University of Hawaii; Nick Lycurgus, Mrs. Kubo; Mrs. Carlsmith; Mrs. Giacometti; Mrs. Compton; Mrs. Sinclair; Mrs. Bevis; President Bevis of Ohio State. Rear: Dr. M. Kubo; Asst. to Supt. Moomaw; Dr. Compton; President M.I.T., "Uncle" George Lycurgus, Guido Giacometti; Volcanologist Finch. An illustrated talk was presented to the group in the evening.



University Presidents and wives near Thurston Lava Tube. L. to R. Mr. Sinclair, University of Hawaii; Dr. Bevis, Ohio State, Mrs. Bevis, Mrs. Compton, Dr. Compton of M.I.T., Mrs. Sinclair.



Looking into Makaopuhi. Dr. Powers explaining geology of pit craters to Dr. Compton and party.



Dr. Sinclair, Dr. Compton, "Uncle" George Lyeurgus and Dr. Bevis.



Visitors and Superintendent at interpretive display
at Lava Tube.



Visitors at Halemaunau



Results of a recent goat drive in the Kilauea Section. Driving is not possible in the Haleakala Section due to escape facilities offered by precipitous crater walls.



250 pound feral sow destroyed near Chain of Craters Road where almost nightly huge clumps of sod were rooted onto highway. This sow was in full lactation but litter was not found.

RECEIVED AS FOLLOWS



Results of a recent goat drive in the Kilauea Section.
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250 pound feral sow destroyed near Chain of Craters Road where
almost nightly huge clumps of sod were rooted onto highway.
This sow was in full lactation but litter was not found.

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

April 4, 1947

MEMORANDUM for the Superintendent.

The following report of Ranger activities for the month of March 1947 is respectfully submitted:

✓ Ranger Medeiros spent the entire month on annual leave.

✓ Park Warden Hauanio Jr. spent the better part of the month breaking and training the two new horses recently purchased. A lot of credit is due Hauanio for his work. He has taken great pains and has done an excellent job with the animals.

Maintenance

✓ The usual telephone line trouble made it necessary to spend considerable time repairing same. Two coils have been burned out as a result of lightning on Mauna Loa.

✓ The Koa plots on Mauna Loa were checked by Ranger Davis - fences were repaired where needed.

The Kipuka Ki horse paddock fence was inspected. It is still in need of repair although Sumner has removed the cattle.

Routine inspection of fire truck continued throughout the month.

✓ A large portion of ranger time was spent picking up rubbish along the park roads.

Exotic Plant Control

A second application of 2, 4-D was made on the blackberries near Thurston Lava Tube. Results seem quite favorable. The morning glory sprayed some time back has practically vanished.

Insects

Ranger Davis reports that Dr. O. H. Swezey has confirmed the identity of mamani defoliators as Mecyna Eiresens and that a defoliator of naio has been very active in the forests.

Ranger Guide Service

Ranger Davis conducted two tours. One of 1 hour duration for 45 students. The other 2½ hours for 24 people who were also shown the Eruption picture - 1 hour.

Ranger Lindsay conducted 30 girl scouts through Kilauea Iki - 3 hours.

I conducted one tour of 20 Maui Boy Scouts, 2 hour duration also showed Eruption film - 45 minutes.

Protection

Several people were reprimanded for picking flowers, one for driving through the counting station stop signs.

One arrest was made by Foreman Quick which resulted in a \$10.00 fine for speeding on Mamalahoa Highway.

Several groups of picnickers were told to move to proper picnic areas.

Constant patrols were made throughout the month. One early morning patrol was made and several late patrols were made.

Travel

There seems to be an increase in travel through the park.

An all night travel count was made when a continuous count was made from 8:00 AM on the 21st to 5:00 PM on the 22nd.

Signs

Work continued on signs. Warden Hauanio Jr. spent some time preparing redwood posts for new signs.

Exotic Animal Control

Ranger Lindsay and I each attended a goat drive. The two drives netted 171 goats. One cat was destroyed.

Miscellaneous

A fire drill and explanation of a CO₂ fire extinguisher was given employees of the Volcano House. Each employee was taught to use a CO₂ extinguisher by actually operating one.

Miscellaneous (cont'd)

Each housewife in the park was taught to use the 1 qt. C.T. fire extinguisher by Ranger Lindsay by having the lady actually operate the extinguisher in her home. This was in connection with the quarterly fire and sanitation inspection which Ranger Lindsay completed.

Frank A. Hjort,
Chief Park Ranger.

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

Include

April 2, 1947

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report.

I. The entire month for the road crew was spent in patching and repairing shoulders. Sections 3A- 3B and 3C Mamalahoa Highway.

II. Five new laborers were employed under account number 450. Grading and filling for the two (2) 100,000 gal. water tanks to be located in the utility area was started and is now 90% complete.

Sorting bottoms and cutting of chine joist has been completed on one tank and the second started.

III. The new portable rock crusher was set up and put into operation to produce rock and sand necessary to the erection of the water tanks.

Quarry operations were also started at the old prison camp.

IV. The undersigned spent several days searching for and obtaining excess and surplus pipe and fitting for the new water system.

V. All other activities were routine in nature.

Respectfully submitted,

Herbert J. Quick

Herbert J. Quick
Foreman C&M

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

April 2, 1947

MEMORANDUM for the Superintendent.

Subject: Monthly Report of Asst. to Superintendent and Acting
Park Engineer B. F. Moomaw for March, 1947.

General

Except as noted under the following headings the month was spent on routine duties.

Special Activities

19th attended luncheon meeting in Hilo commemorating the 40th Anniversary of the University of Hawaii.

Plans, Maps, and Surveys

Two days were utilized on the continuation of Card Indexing the Parks Map & Plan File.

Several location surveys and level lines were run during the month in preparation to the erecting the recently acquired water tanks.

New Construction

The largest single job of the month was the locating and procurement of pipe fittings and other construction materials for the new water tanks and inspection of the work in progress. The foundation work for the two lower tanks is now 20% complete.

Safety

The Park Safety Committee held its monthly meeting in the office of the undersigned on the 27th. The Kilauea Military Camp monthly meeting was held on the 21st but the undersigned was unable to attend because of another conference.


Benjamin F. Moomaw,
Asst. to Superintendent

April 2, 1947

MEMORANDUM for the Superintendent.

**Subject: Monthly Report of Asst. to Superintendent and Acting
Park Engineer B. F. Moomaw for March, 1947.**

General

Except as noted under the following headings the month was spent on routine duties.

Special Activities

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Benjamin F. Moomaw,
Asst. to Superintendent

D

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

April 3, 1947

MEMORANDUM for the Superintendent.

Subject: Report of the Hawaiian Volcano Observatory for March.

There was a distinct increase in seismicity during March with 53 earthquakes recorded at Kilauea and 62 at Mauna Loa. The strongest of the 7 perceptible shakes occurred at 23:06 on March 19. Its indicated origin was 5 miles east of Mokuaweoweo at a depth of 25 miles.

The SW tilt usual for this season of the year ceased about the last of February and was not resumed in March. The lack of SW tilt may partially be explained by the fact that the mean temperature for March was lower than that for February.

There was but little movement at any of the measured cracks near the Halemaumau rim or along the Chain of Craters Road.

The undersigned finished a manuscript dealing with the mechanics of the explosive eruption of Kilauea in 1924. Some work was done on a general study of volcanic vibrations. Routine correspondence, part of the seismologic routine, and consultations took up most of my time not spent on manuscripts.

Dr. H. A. Powers' time was largely taken up by seismological routine. The rest of his time was taken up by: 1 Research on tilt; 2 Participation in the Naturalist program - 4 talks on seismology and one talk on geology; 3 A meeting in Hilo regarding installing sirens for tidal wave alarm and meetings with the University of Hawaii 40th Anniversary group.

Work of B. J. Lovicks

In addition to assisting in seismological routine he worked on parts for tractor and rock crusher for Foreman Quick, a drum carriage for Hilo seismograph, and on shop tools, and equipment.

R. H. Finch

Ruy H. Finch,
Volcanologist.

April 3, 1947

MEMORANDUM for the Superintendent.

Subject: Report of the Hawaiian Volcano Observatory for March.

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Work of B. J. Loucks

In addition to assisting in seismological routine he worked on parts for tractor and rock crusher for Foreman Quick, a drum carriage for Hilo seismograph, and on shop tools, and equipment.

Ruy H. Finch,
Volcanologist.

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*

120905

Haleakala Section, Hawaii National Park

NUMBER OF PERSONS ENGAGED: Name of Area March, 1947
Interpretive Administrative Other Month
Permanent _____ 1947
Temporary _____ Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other			
Total			

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge Observation Station	5	207	1/2 hour
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	5	207	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS
(Give Name or Type) Total	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks and movie	1	74	45 min.
Displays and Exhibits			
Replies to Inquiries			
Other			

Total Receiving Interp. Serv. 207
Total Number Visitors to Area 1559

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

NAME Robert C. Olson
TITLE Acting Rgr. in Charge

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

* 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 OVERLOOKS, 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

10-23
(May 1923)

6-7410

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

FILE NO.

MONTHLY NARRATIVE REPORT FOR

FEBRUARY 1947

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

6-7410

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

March 10, 1947.

Summary of February 1947 5-page Narrative Report for
Hawaii National Park

Weather, p.1.- Precipitation at Kilauea 1.45" and at Haleakala 2.94". Maximum and minimum temperature at Kilauea 78 and 43; at Haleakala 78 and 32.

General, p.1.- Water storage problem solved by acquisition of 12 - 100,000 gal. redwood tanks from WAA under Public Law 478 without exchange of funds.

Special Activities, p.1 & 2.- First part of month superintendent spent in Honolulu on matter of securing water tanks and getting them shipped to the park. Conference on Feb.14 with Colonel Ware, Colonel King of KMC and Colonel Steele, CO G-4, resulted in agreement being made permitting this park to use heavy equipment owned by the Army, such as lowbeds, cranes, and other heavy equipment which we do not own and which at times we seriously need to transport heavy equipment. Transfer of Army buildings at Haleakala to National Park Service held up account WAA not giving its permission to Army Ground forces Pacific to transfer these buildings to NPS in lieu of restoration.

Research and Observation, p.2.- Number of earthquakes recorded during February lowest for many months. 33 shakes recorded at Kilauea and 42 at Mauna Loa.

Inspections, p.3.- Regional Director Tomlinson visited the park to join the Secretary's party upon arrival. He made a thorough inspection of the park, including roads, buildings, utility area, and KMC.

Interpretation, p.4.- Innovation of giving illustrated lectures on different mainland parks has met with much success and will be continued.

Travel, p.5.- At Kilauea section there were 16,449 visitors, of which 263 were in the armed forces. At Haleakala these figures were 848 and 40.

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

March 10, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of February, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 78° and 43°. At Haleakala ranger station these recordings were 78° and 32°. Total rainfall at Kilauea 1.43" and at Haleakala 2.94". The entire month of February in the Kilauea section was so dry that concern was felt for our water supply but a heavy rain on the last day of the month relieved the situation.

General

The most notable accomplishment during the month was the solving of the acute problem of water shortage through the acquisition and transport to the park of twelve 100,000-gal. redwood water tanks, secured from the WAA under Public Law 478 without exchange of funds. We were allotted \$10,600 for erection purposes and it is believed from four to six tanks can be immediately installed.

The continuing cleanup campaign was extended to roadsides, utility area, and other buildings in the headquarters area, and the park in general now reflects a typical national park atmosphere.

Special Activities

From February 2 to 12 the Superintendent and General Foreman were in Honolulu procuring redwood water tanks and moving them from Base Yard 17 to Pearl Harbor, a distance of approximately 20 miles, where six of them were loaded on an LHM for immediate transport to Hilo; the remaining six were stored at Pearl Harbor awaiting the next Navy ship for Hilo. In addition to securing the tanks, 360 pieces of 4"x10"x24' timber valued at \$5,615.00 were secured without charge of any kind through the alertness of General Foreman Quirk who discovered the large stock pile in one of the Army dumps in Honolulu. The excellent cooperation of the Army and Navy in supplying trucks, cranes, labor, and shipping facilities, resulted in an estimated saving of \$23,600 to the Government.

February 8 to 10 was devoted to transporting the first six tanks from dockside to the park, with all available personnel taking part in the unloading activities which had to be done by hand due to the unavailability of a crane at the unloading site. The remaining six tanks were shipped to the park on February 21 and the process of transporting them to the park was completed on the 25th.

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Special Activities (continued)

The erection of the tanks will begin immediately and it is believed that the additional 1,200,000-gal. storage will provide sufficient water for all needs for many years to come.

February 11 there was a meeting of the Lions International on the occasion of the visit to the islands of International President Clifford D. Pierce. The superintendent attended the dinner-dance held that evening at the Volcano House in honor of Mr. Pierce. There were some 350 guests present.

February 14 a conference was held with Colonel Ware, Colonel King of KMC and Colonel Steele, Commanding Officer G-4, relative to securing parts and equipment from surplus property to take care of the mutual needs of KMC and the FFS. An informal agreement was made which enables us to use heavy equipment owned by the Army, such as lowbeds, cranes, and other heavy equipment which we do not have but which at times we seriously need to transport heavy equipment, such as D-8 tractors, shovels, etc.

On the 17th the Consul General of the Philippines, Modesto Ferolan, and a party of ten officials from Honolulu visited the park. The superintendent attended the banquet and dance given in his honor at the Volcano House, at which there was an estimated attendance of three hundred.

February 20 was devoted to a field trip with Mr. W. L. Bryan, Associate Territorial Forester, inspecting badly over-grazed areas on Mauna Kea and examining experimental plantings.

February 24 the superintendent lunched with John E. Hull, Commanding General, Mid-Pac, and staff, including Colonels Ware and King of KMC, at which time mutual problems were discussed. The subject of transferring army buildings in the Haleakala section of the park was brought up and revealed that the WAA is holding up final transfer of these buildings by withholding its permission to Army Ground Forces Pacific to transfer these buildings to the National Park Service in lieu of restoration.

Research and Observation

The number of earthquakes recorded during February was the lowest for many months. Thirty-five shakes were recorded at Kilauea and 42 at Mauna Loa. Earthquakes originating from the southwest rift of Mauna Loa were more numerous than in the preceding several months. The only earthquake that was felt during the month occurred at 6:45 P.M. February 26. There was a distinct accumulation of southerly tilt and a slight easterly tilt during the month.

Most of the Volcanologist's time during the month was spent on building shelving and sorting over library material stored in the basement, in preparation for the coming of the librarian the Hawaiian Volcano Research Association selected (and paid for) to make a survey of the equipment and supplies we need to have on hand for the use of the librarian whom this Association will send to us on July 1 next to serve here for one year and get our library in useable condition. Miss Griffey, librarian at the University of Hawaii, arrived for this survey Feb. 24 and remained the balance of the month. The H.V.R.A. are setting aside \$3,000 to pay the librarian's salary for one year.

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Inspections

Regional Director Tomlinson arrived in the park on February 27 for an inspection of the park and to join Secretary Krug's party upon its arrival on the Big Island. The Regional Director made a thorough inspection of all park facilities, including roads, buildings, utility area, and EMO. He graciously accepted a last-minute invitation to speak at the noon meeting of Hilo Rotary on the 28th in lieu of the regular program that had been outlined. All there agreed that his talk was the most outstanding one that had been presented to Rotary this year. Attached to this report is a copy of a synopsis of his talk given in the official publication of the Hilo Rotary "Lava Floor".

On the evening of the 28th the park personnel tendered Mr. Tomlinson a lovely dinner at the Volcano House, after which he contrived to have a little personal chat and visit with every one present. The entire organization here appreciated the visit of the Regional Director and its good effect has also been felt by people of the islands as well. The fact that we have had so many visitors of late from the Regional Office has given us a better sense of belonging to the parent organization and not a forgotten orphan out here in this vast expanse of the Pacific but an integral part of the chain of national parks.

Forest Protection

Two goat drives were held during the month in the Kilauea section. The first one along Hilina Pali from Pepeeiau east to the Shipman fence netted 363 goats for the contractor while 100 were killed along the way. The second drive held in the Apua area netted 105 goats with 50 killed along the way. The total number of goats eliminated from Kilauea was 628, and at Halsekala 15 were destroyed.

Forest Fire Protection

A fire call was answered at the Ruddle home outside the park on the 24th. An area of approximately 38,747 sq. ft. of young mixed forest was burned over. All the fire hose on the truck was tested at 200 lbs. pressure. Two sections burst and were discarded.

Building Fire Protection

New fire extinguishers were installed in 13 houses to replace unsatisfactory ones found in the last quarterly fire inspection. 22 extinguishers were made ready for vehicles and heavy equipment. There are 35 of the recently received extinguishers that are serviceable and on hand at the warehouse.

Insects and Tree Diseases

Ranger Davis resumed work with 2, 4-D (dichlorophenoxy acetic acid) on the large clumps of blackberry near the Lava Tube and at camp Homakani Paio and Bird Park on morning glory. Observations of results are continuing.

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Ranger Service

Considerable maintenance work was accomplished during the month. Telephone lines were repaired in several places; a new line was run to the pole line from the office so RMC can now be called direct. On Maui a phone was installed in the office so direct calls can be made to Kahului Naval Air Station and on through RMC to this office. Work was done on trails and low spots in the horse corral were filled in and water drained. Several new signs were made and installed; routine patrols were made on all roads in the park; two-day travel count was made; several days spent in removing rubbish along all park roads, especially the main through highway. Rangers were present on patrol at three dances held at the Volcano House during the month.

Maintenance

The first part of the month Foreman Quick spent in Honolulu with the Superintendent obtaining twelve 100,000 gal. recool water tanks from surplus property and making arrangements to ship them to Hilo. The tanks arrived in Hilo on week-ends, necessitating the handling and hauling of them on Saturdays and Sundays. The workmen were given compensatory time off at the rate of time and one-half for the first week-end and are being paid overtime for the second week-end.

Other activities of the maintenance department were of routine nature.

Personnel

Gunder E. Olson, former Assistant Chief Park Ranger in this park, who transferred to the U.S. Engineers May 3, 1942, applied for reinstatement in the Service (having reemployment rights) on January 7 and was appointed to CPC-7 position, Park Ranger, and assigned to duty on Maui, effective February 4, 1947. Since that date, the CPC-8 position, District Park Ranger, which was expected to be filled by transfer from one of the mainland parks, became vacant owing to the proposed transfer not found feasible, and we have recommended that Mr. Olson be promoted to that position.

Ranger Davis returned from several weeks tour of duty on Maui on the 21st.

Park Warden McCall came over on his free time the 26th to attend the dinner for the Regional Director.

Interpretation

The Park Naturalist was on duty throughout February with the exception of three days on sick leave. Time was devoted mainly to interpretation, photography and preparation of the exotic plant paper. He gave one talk with kodaalides at the Brother's School in Hilo, and spent one day assisting with the unloading of water storage tanks. Attached to this report is a copy of the Naturalist program for February and March. As in January, it will be noted that several members of the Park staff are participating in the interpretive program, an innovation that is nesting with much success.

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Travel

At the Kilauea section there were 15,449 visitors, of which 268 were in the armed forces. At Haleakala these figures were 848 and 40.

Visitors

- Feb. 11 Clifford D. Pierce, President Lions International & party
- " 13 Mr. & Mrs. Jack Oberhansley of Spanish Fork, Utah (brother of the Superintendent)
- " 16 Consul General Modesto Farolan and Hawaii Filipino Civic Assn.
- " 24 General John E. Hull and staff
- " 25 Colonel Steele, C.O. G-4
- " 27 Regional Director C. A. Tomlinson

F. R. Oberhansley,
Superintendent
Frank R. Oberhansley,
Superintendent.

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



Haleakala Section,
February 28, 1947

Memorandum for the Superintendent.

Subject: Haleakala Section Monthly Report for February, 1947.

The undersigned arrived in this Section of the Park on February 14th, taking the place of Ranger Davis who reported back to Kilauea on that date. Most of the time since arrival has been taken up with getting acquainted with changes and improvements made since my last duty here in 1940. Two days were spent in this Section with Chief Ranger Hjort in going over proposed work and improvements in this area.

WEATHER CONDITIONS.

A severe Kona storm was experienced on February 9th which disrupted electric power at the Summit, Observation Station and Ranger Station. About one mile of Army high tension power line is down at the summit from icing and high winds. It is expected that this will be repaired in the near future. The remainder of the month, however, has been quite dry and the mountain vegetation is already beginning to show need of rain.

Maximum temperature.....	76
Minimum temperature.....	32
Rainfall total---.....	2.94
Clear days.....	20
Partly cloudy days.....	5
Cloudy days.....	3

MAINTENANCE.

During the month, estimates were prepared and requisitions submitted for materials to renovate the Observation Station and certain units in the Utility Area at Headquarters. It is hoped that this work can be started in the near future.

APPROACHES TO PARK AREA.

A County of Maui road maintenance crew spent several days during the past week patching the road below the Park.

WILDLIFE.

Fifteen wild goats and one wild pig were destroyed in this Section during the month.

15
/

Gunder E. Olson,
Acting Ranger in Charge,

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

March 4, 1947

MEMORANDUM to the Superintendent.

The narrative report of the ranger division for the month of February 1947 is respectfully submitted:

✓ One fire drill was held during the month. It brought out several mistakes to be corrected in case of fire. Some work has been done since then on fire drill instruction, more will be done.

✓ One fire call was answered at the Ruddle home outside the park on the 24th. Ranger Davis reports that approximately 38,747 sq. ft. of young mixed forest were burned over.

Was
All the fire hose on the truck was tested at 200 lbs. pressure. Two sections burst so were discarded.

Fire extinguishers were installed in 13 houses to replace unsatisfactory ones found in the last quarterly fire inspection. 22 extinguishers were made ready for vehicles and heavy equipment. There are 35 of the recently received extinguishers that are serviceable and on hand at the warehouse. Of the 91 received from Maui 21 were found to be unsatisfactory and were discarded.

Two goat drives were held during the month. The first one along Hilina Pali from Pepeiau east to the Shipman fence. This drive netted 365 goats for the contractor while 100 were killed along the way.

The second drive held in the Apua area netted 105 goats with 50 killed along the way.

The total number of goats eliminated from the park was 628.

Ranger Davis reports that the goats in Haleakala Crater are now breaking down the mamani shrubs to get at the upper foliage and have started to eat the aalii. No control work was done at Haleakala this month except for one trip by Warden McCall and the laborers along Lelewi cliffs. Ranger Davis failed to carry a gun on his three trips into the crater.

Considerable maintenance work was accomplished throughout the month.

Telephone lines were repaired in several places.

A short line was run to the pump house (where the signs are made) and a phone installed.

A new line was run to the pole line from the office so K.M.C. can now be called.

On Maui a phone was installed in the office so direct calls can be made to Kahului Naval Air Station and on through K.M.C. to this office.

The trail to Thurston Lava Tube was repaired where an ohia tree had uprooted and taken out a small section.

Some work was done towards filling in the low spots in the horse corral and in draining the water there.

The plants at Hilina Pali Shelter were weeded.

The nursery was cleaned up.

Some new rock names were removed below Uwokahuna.

Several days were spent in removing rubbish along all park roads, especially on the main through highway.

The water tanks at the lava tube were cleaned and refilled.

The sign shop at the CCC Camp was boarded up and locked after a thousand feet of redwood lumber for future signs was placed there.

Two new signs were installed, one at the Power's residence and one at the entrance to the footprints trail.

Routine patrols were made on all roads in the park. No other patrols were made except the two goat drive trips where a ranger was present.

Ranger Olson entered on duty and was accompanied to Maui by the Chief Ranger.

Ranger Davis returned from Maui where he had been for several weeks.

Rangers were present on patrol at 3 dances during the month.

A count was taken on the 22nd which was holiday also on the 23rd and 24th. The people were all stopped and questioned as to where they were going.

The following results were obtained in the count which was taken for 7 hours (9:00 A.M. to 5:00 P.M.) on the 22nd, 8 hours (8:00 A.M. to 5:00 P.M.) on the Sunday 23rd and the same 7 hours on the 24th as on the 22nd.

Actual Park Visitors - Cars	237)	Civilians
" " " Visitors	993)	
" " " Cars	6)	Military not K.M.C.
" " " Visitors	26)	
Through traffic Cars	225)	
Visitors	468)	Civilian
Heavy trucks & busses	82)	

K. M. C. (K.M.C. passengers were not counted as the number of personnel and guests there can be obtained from records)

Passenger Cars	41
Heavy Trucks	32
Total	<u>623 cars 1487 people</u>

Ranger Davis resumed work with 2, 4-D (dichlorophenoxy acetic acid) on the large clumps of blackberry near the lava tube and at camp Namakani Paio and Bird Park on morning glory. Observations of results are continuing.

On my inspection trip to Maui with Ranger Olson I looked at the damage to the Army power line at the summit. Only the last few poles were damaged. A few minutes work on the part of Ranger Davis (after throwing the switch at the line junction above R. S.) to throw the line off the highway in one or two places would have made it unnecessary to close the park at all after the cold weather. Nearly all down lines were on the road leading from the parking area to Red Hill.

The Army camp was looked over and found to be locked properly.

The road work is progressing slowly but at a satisfactory rate.

Ranger Olson seemed to be quite pleased that the road and all utilities were not in worse shape than they were.

Ranger Davis and I each gave one lecture during the month at the observatory. Davis' was 1 hour with 40 people in attendance. The other was 45 minutes and 20 people.

Respectfully submitted,

Frank A. Hjort
 Frank A. Hjort,
 Chief Park Ranger.

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

March 3, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report of Asst. to Supt., and Acting
Engineer Moomaw for February, 1947.

Special Activities

Part of the month was spent on duties that are without a doubt special activities. The undersigned may now add a new experience to his varied list as he can now qualify as a "Boss Stevedore" since unloading two ship loads of water tanks and lumber during the month.

Superintendent Oberhansley called from Honolulu on the 6th to say that LSM 377 was then leaving Honolulu with a load of six water tanks and floor joists (4'x10"x24' timber) that he had just secured from surplus, and for the crew to be ready to begin unloading the following day. The next few days were spent unloading, hauling and stock piling these tanks and timbers. This ship load constituted only about half of the tanks and timbers and the second load came into Hilo on the same ship on the 21st. Unloading of this cargo started at 8:00 A.M. on the 22nd and the last load arrived in the Park at about 6:00PM on the 24th.

Inspections

The morning of the 28th was spent with Regional Director Tomlinson and the Park Staff in an inspection of the Park.

Plans, Maps, and Surveys

A total of seven days of the month were spent on Plans and Estimates for the installation of the 12, one hundred thousand gallon water tanks secured from surplus. Specifically this consisted of redesigning the roof of the rain shed on Tank Hill designing the tank foundations and pipe connections and preparing the incidental estimates. This complete job will involve about 330 cu. yards of concrete, 20,000 board feet of timbers and a minimum of 1500' of 6" pipe and fittings, all lumber and timbers are NOW on hand, reinforcing steel is available without cost except haulage from Hilo, and the pipe is available on surplus and is now in Hilo. The current allotment of \$10,600 will install a minimum of 4 tanks and allow for the necessary pipe connections.

Maintenance

Routine inspections were made of roads and jobs on:

6th Crater, Bird Park and Kau Roads
18th Same areas above and Field Equipment Repairs.

Cooperating Government Agencies

The local Army and Navy Agencies were more than generous in moving the tanks from Honolulu and lending us trucks to move this material from Hilo to the Park. It is estimated that, thanks to these agencies, we saved between \$7,000 - \$8,000 in freight, drayage, and equipment rental.

Forest Fire Protection

The undersigned answered the fire call for the brush fire on the Ruddle Farm on the 24th.

Building Fire Protection

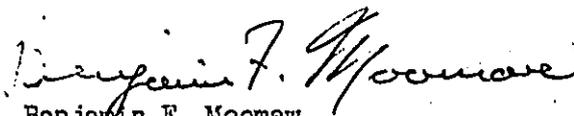
Attended the surprise Fire Drill on the 12th.

Accidents, Etc.

While unloading the first ship load of tanks, Louis Gamalielson was slightly injured when the eye of a sling pulled out of the crane hook as a lift of timber was being hoisted from the ship. There was no lost time, and separate report was made of this accident.

Safety

The Park Housing - Safety Committee held a meeting on the 18th and the chairman attended the monthly Safety Council meeting at Kilauea Military Camp on the 21st.


Benjamin F. Moomaw,
Asst. to Superintendent.

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

March 4, 1947

MEMORANDUM for the Superintendent.

Subject: Report of the Hawaiian Volcano Observatory for February.

The number of earthquakes recorded during February was the lowest for many months. Thirty five shakes were recorded at Kilauea and 42 at Mauna Loa. Earthquakes originating from the southwest rift of Mauna Loa were more numerous than in the preceding several months. The only earthquake that was felt during the month occurred at 6:45 P.M. February 26. There was a distinct accumulation of southerly tilt and a slight easterly tilt during the month.

Most of my time during the month was spent on building shelving, and sorting over library material in the basement. Many duplicates and excess numbers of bulletins were disposed of. The last of the steel shelving was removed from the basement and set up in the library.

Dr. H. A. Powers assisted in moving the library as time permitted and during the last week of the month resumed his tilt studies.

Mr. B. J. Loucks checked the inventory lists for tools and equipment in the shop, cleaned up and rearranged things in shop and storerooms, and did miscellaneous work in the shop. He was absent on sick leave February 19-20.

R. H. Finch

Ruy H. Finch,
Volcanologist.

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

March 10, 1947.

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report for February, 1947.

The first part of the month was spent in Honolulu with the superintendent obtaining twelve 100,000 gal. redwood water tanks from surplus property and making arrangements to ship them to Hilo. The tanks were hauled to Pearl Harbor and shipped to Hilo on an L.S.M. by the Navy, without expense to the Park Service.

The tanks arrived in Hilo on week-ends, necessitating the handling and hauling of them on Saturdays and Sundays. The workmen were given compensatory time off at the rate of time and one-half for the first week-end and are being paid overtime for the second week-end.

Other activities of the maintenance department were of routine nature.


Herbert J. Quick,
Foreman Const-Maintenance

March 4, 1947

MEMORANDUM to the Superintendent.

The narrative report of the ranger division for the month of February 1947 is respectfully submitted:

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One fire call was answered at the Ruddle home outside the park on the 24th. Ranger Davis reports that approximately 38,747 sq. ft. of young mixed forest were burned over.

All the fire hose on the truck was tested at 200 lbs. pressure. Two sections burst so were discarded.

Fire extinguishers were installed in 13 houses to replace unsatisfactory ones found in the last quarterly fire inspection. 22 extinguishers were made ready for vehicles and heavy equipment. There are 35 of the recently received extinguishers that are serviceable and on hand at the warehouse. Of the 91 received from Maui 21 were found to be unsatisfactory and were discarded.

Two goat drives were held during the month. The first one along Hilina Pali from Pepeiau east to the Shipman fence. This drive netted 365 goats for the contractor while 100 were killed along the way.

The second drive held in the Apua area netted 105 goats with 50 killed along the way.

The total number of goats eliminated from the park was 628.

Ranger Davis reports that the goats in Haleakala Crater are now breaking down the mamani shrubs to get at the upper foliage and have started to eat the aalii. No control work was done at Haleakala this month except for one trip by Warden McCall and the laborers along Lelewi cliffs. Ranger Davis failed to carry a gun on his three trips into the crater.

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A new line was run to the pole line from the office so K.M.C. can now be called.

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The nursery was cleaned up.

Some new rock names were removed below Uwekahuna.

Several days were spent in removing rubbish along all park roads, especially on the main through highway.

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The sign shop at the CCC Camp was boarded up and locked after a thousand feet of redwood lumber for future signs was placed there.

Two new signs were installed, one at the Power's residence and one at the entrance to the footprints trail.

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Ranger Olson entered on duty and was accompanied to Maui by the Chief Ranger.

Ranger Davis returned from Maui where he had been for several weeks.

Rangers were present on patrol at 3 dances during the month.

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Total	<u>623 cars 1487 people</u>

Ranger Davis resumed work with 2, 4-D (dichlorophenoxy acetic acid) on the large clumps of blackberry near the lava tube and at camp Namakani Paio and Bird Park on morning glory. Observations of results are continuing.

On my inspection trip to Maui with Ranger Olson I looked at the damage to the Army power line at the summit. Only the last few poles were damaged. A few minutes work on the part of Ranger Davis (after throwing the switch at the line junction above R. S.) to throw the line off the highway in one or two places would have made it unnecessary to close the park at all after the cold weather. Nearly all down lines were on the road leading from the parking area to Red Hill.

The Army camp was looked over and found to be locked properly.

The road work is progressing slowly but at a satisfactory rate.

Ranger Olson seemed to be quite pleased that the road and all utilities were not in worse shape than they were.

Ranger Davis and I each gave one lecture during the month at the observatory. Davis' was 1 hour with 40 people in attendance. The other was 45 minutes and 20 people.

Respectfully submitted,

Frank A. Hjort,
Chief Park Ranger.

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March 5, 1947

MEMORANDUM for the Superintendent.

Following is the Park Naturalist's monthly report for February, 1947, to which is attached the Statistical Report of interpretive services.

General

The Park Naturalist was on duty in the Park throughout February with the exception of three days on sick leave. Time was devoted mainly to interpretation, photography, and preparation of the exotic plant paper.

Maintenance

The Park Naturalist spent one day assisting with the unloading of water storage tanks.

Interpretation

Attached to this report is a copy of the Naturalist program schedule for February and March. It will be noted that several members of the Park staff are participating in the interpretive program.

At the Haleakala Section Rangers Davis and Olson gave 8 interpretive talks to sunrise visitors there. Reports indicate that this service is greatly appreciated.

The Park Naturalist gave one illustrated talk at the Frother's School in Hilo.

On February 11, Mr. Clifford Pierce, President of Lions International, from Memphis, Tennessee, visited the Park with several local Lions. A special Park program was arranged for him. Superintendent Oberhansley conducted the party on a tour of the Park.

The Park Naturalist prepared the first draft of an article on the Park for The Highway Magazine.

Research

Three days were spent on the exotic plant paper, which is now nearing completion.

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Photography

Three days were spent on various phases of photography.

Proposed work for March

It is expected to complete the exotic plant paper and the Highway Magazine article. Time permitting the text for the Park guide map will be worked on. Several requests for interpretive services outside the Park have come in.

Gunnar O. Fagerlund,
Park Naturalist.

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Section 304
Reports
411 and 420

**MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS***

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other
Permanent	<u>1</u>	<u>2</u>	<u>3</u>
Temporary	_____	_____	_____

Name of Area

February
Month
1947
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	2	110	3 1/2 hrs.
Walks or Hikes	1	15	3/4 hr.
Ruins or Hist. House			
Other	15	34	2 1/2 hrs.
Total	18	159	

TALKS	NO.	ATTENDANCE	DURATION
Campfire <u>Malakala Observation Sta.</u>	8	273	1 hr.
Hotel or Lodge			
Museum (Not connected with conducted trip)	21	368	1 hr.
Orientation (Not connected with conducted trip)	10	60	1/4 hr.
Other (Not connected with conducted trip)			
Total	39	701	

ATTENDED INTERPRETIVE STATIONS	DAYS

(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
¹⁰ <u>Thurston Lava Tube Trailside Exhibit</u>	28	1500	1/4 hr.
⁵ <u>Hipuka Puukoa</u>	28	250	"
¹ <u>Tree Molds</u>	28	150	"
⁵ <u>Observatory</u>	24	250	"
<u>Silver sword Trail</u>	28	250	"
(Give Name or Type) Total	136	3400	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	1	20	1 hr.
Displays and Exhibits			
Replies to Inquiries	5		
Other			

4,380
Total Receiving Interp. Serv.
17,583
Total Number Visitors to Area

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

NAME Gunnar O. Fogelund
TITLE Park Naturalist

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

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

RECEIVED AS FOLLOWS

16,444
1 174
17,583

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 OVERLOOKS, 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 5TH OF THE MONTH FOLLOWING THAT COVERED BY THE REPORT.

120905

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

70
Refer to for memo
report on int.
activities etc.

February 17, 1947

MEMORANDUM for the Superintendent.

Subject: Narrative Report of Activities at Haleakala, February 1 - 14.

Statement of travel

January 20, 1947.

Lv. H. N. P. via government transportation at	10:30 A.M.
Ar. Hilo	11:30 A.M.
Lv. Hilo via Navy plane	12:30 P.M.
Ar. Maui (N. A. S.), Kahalui	1:30 P.M.
Lv. Maui (N. A. S.), Kahalui via gov't vehicle	3:30 P.M.
Ar. Haleakala	4:30 P.M.

January 21 - February 13, 1947. Tour of duty, Maui.

February 14

Lv. Haleakala via gov't vehicle	6:30 A.M.
Ar. N. A. S. (Kahalui)	7:30 A.M.
Lv. Maui via Navy plane	9:30 A.M.
Ar. Hilo	10:30 A.M.
Lv. Hilo via gov't vehicle	1:30 P.M.
Ar. Headquarters	2:30 P.M.

Tour of duty, January 21 - February 13, 1947 at Haleakala.

Weather Conditions

Reported previously on special memorandum to the Superintendent dated February 11, 1947.

Pictures that follow were taken at 11:30 A.M. on February 10th and show conditions on Red Hill.



One of 5 or 6 poles that were blown over between Red Hill and Kolekole, 10,000' elevation.



Heavily iced power lines such as shown here snapped in several places and were blown across the Haleakala road.

Maintenance

(a) Hauling fire wood to Pakaoao Observation Station, emptying trash cans and sweeping out observation station.

(b) Inspecting and sorting out fire extinguishers acquired from surplus property, recording serial numbers, servicing, packing and crating same for shipment.

(c) Checking progress of laborers on road work.

(d) Inspecting and securing Army Base Camp. It was noted that some of the diesel burner units are rusting very badly.

Concessioners

There were several verbal requests for horse back trips into the crater.

Mr. Sprinkle stated that a party desired to go into the crater on February 21 and desired information as to whether or not he could take them in on the Maui Grand Concession. It was suggested that he refer the matter to the Superintendent.

Interpretation

A program was posted in Pakaoao Observation Station on February 1st relative to activities for the Haleakala Section.

Contacts were as follows:

<u>Talks</u>	<u>Number</u>	<u>Attend</u>	<u>Duration</u>
Pakaoao Observation Station	4	97	2 1/2 hrs.

One Silver Sword hike was scheduled but no one showed up. Inclement weather at large was probably responsible.

Research and Observations

Additional silversword areas were examined for injury by feral goats. No injury to the plants was found. Degner in Flora Hawaiiensis, Family 344 states that "On Hawaii the Silversword is now rare, due to feral goats and sheep eating out the terminal bud."

Damage to the native vegetation by goats is increasing. When they are unmolested they spend considerable time on the few Mamani covered cones in the crater over browsing, trampling, barking, and breaking off the twigs and branches of the native vegetation. Their tracks are now dangerously close to the Silversword areas.



Numerous feral goats were observed south of Mauna Hina, on the trail to Paliku.



Bark injury to Aalii (*Dodonaea* sp).
Picture taken near Oili Puu.

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Increase or Decrease in Travel

On the basis of actual counts by the laborers working on the road and by week end counts there appears to be an increase in the travel trend for Haleakala.

Visitors

Mr. A. H. Cooke of Burlingame, California was a recent visitor to Haleakala. Mr. Cooke is an early resident of Maui and recalled several trips he made to Haleakala in the early days. This was his first trip in 34 years.

Insects attacking Silverswords

In a communication from Dr. O. H. Swezey, Consulting Entomologist with the Experiment Station, H. S. P. A. regarding borer larvae in the flower stalks of silverswords he states "The evidence of borer larvae in flower stalks, I would infer were of the cerambycid beetle Aeschrithmysus terryi Perkins. Mr. Otto Degener in 1927 found larvae and adult beetles in stems of flowering plants at Haleakala. The species is described by Perkins in Proc. Haw. Ent. Soc., VII, p. 261, 1929."

Miscellaneous

The water tanks at Holua Cabin is listing toward the North. The underpinnings are rotting at the base.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger.

10-23
(May 1929)

6-7410

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

FILE NO.

Superintendent's Monthly Report

January, 1947

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

February 11, 1947

Summary of January 1947 5-page Narrative Report for
Hawaii National Park

Superintendent's Activities, p.1.-Conference with Mr. George Armitage relative to use of several thousand dollars of Hui-O-Pele funds for park improvement; matter deferred until annual meeting of the Society. Tentatively agreed that these funds might serve a most useful purpose if applied toward assisting in the development of museum displays when that program gets under way.

Weather, p.1.- Precipitation at Kilauea 4.20" and at Haleakala 4.54". Maximum and minimum temperatures at Kilauea were 68° and 29°.

Cooperating Government Agencies, p.2.-

To provide much needed additional water storage owing to recent collapse of a 400,000 gal. tank, twelve 100,000 gal. redwood tanks were secured from Army and Navy Surplus Property Office on Oahu under Public Law 478.

Research and Observation, p. 2.-

Sixty-three shakes on Mauna Loa were recorded in January and 53 at Kilauea. Unusually heavy steaming was observed over Mokuaweoweo from January 19-22.

First systematic studies of goats in the park were initiated at Haleakala, with the idea of establishing more effective control.

Ranger Service, p.3.- Kilauea Iki Crater measured for depth and Footprints area trails logged; several roads planted with native plants to stop vehicles from using them. Traffic count was made to find out how many large trucks were hauling over the Mamalahoa Highway. It was estimated from the count taken there were 1275 trips a month by these trucks.

Interpretation, p. 5.- Some changes made in scheduled interpretive program for next two months whereby illustrated lectures on different mainland parks are being added to those on Hawaii National Park.

Travel, p. 5.- At the Kilauea section there were 15,904 visitors of which 1,452 were in the armed forces. At Haleakala these figures were 700 and 50.

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

February 11, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of January, 1947:

General Weather Conditions

Maximum and minimum temperatures at Kiliman headquarters were 74° and 40°. At Haleakala ranger station these recordings were 68° and 29°. Total rainfall in Kiliman 4.20" and at Haleakala 4.54".

Were it not for the fact that we are extremely water conscious in Hawaii National Park, the weather during January might have been considered to be perfect. Beginning the month with all water storage tanks brimming full, we ended the month with storage facilities considerable less than half full.

Special Activities

On January 1 the Superintendent conferred with Mr. George Armitage relative to the use of several thousand dollars of Hui-O-Pala funds for park improvement. It was decided to delay recommendations for use of this fund until the annual meeting of the Society. It was tentatively agreed, however, that these funds might serve a most useful purpose if applied toward assisting in the development of museum displays when that program gets under way.

An illustrated talk was given by the Superintendent before the Hilo Women's Club on January 6. This group is principally responsible for the total absence of advertising signs along the Big Island highways.

On January 14 another conference was had with Mr. Griffin, who is developing 36 housekeeping units just outside the Hilo entrance to the park. Mr. Griffin plans to have 12 units operating in the near future and is quite disappointed that his application for a liquor license was denied. He seems to suspect that our attitude might be responsible for his failure to secure a permit.

January 19 Commander Julien, CO at Hilo NAS, accompanied the Superintendent on a six mile hike to Hilina Pali to witness an unsuccessful goat drive. This control method cannot be successful without an adequate force of men, and it is planned to secure cooperation rather than competition among bidders for goats when the next contract is awarded for goat driving.

The Superintendent was speaker at the annual banquet of the Big Island Fish and Game Protective Association on January 25.

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Cooperating Government Agencies

In view of the critical water shortage we shall soon have to contend with unless additional storage is provided in the near future, a thorough canvass of Army and Navy surplus property throughout the islands was made. We finally succeeded in locating twelve 100,000-gal. redwood tanks at Base Yard 17 in Honolulu which were in process of being advertised for sale by the Surplus Property Office. These tanks were secured under Public Law 478 and will be transported to the park in the near future for erection, as funds will permit.

It was suggested to Colonel King of EMO that the white painted, large calibre projectiles lining the Mamalahoa highway adjacent to the camp were not in keeping with park atmosphere. The following day these bristling projectiles were all removed. All stock piles of gravel, shods, and debris, accumulated near the prisoners' compound and plainly visible from the highway, are also being removed and the area cleaned up at our suggestion.

Research and Observation

In January, as for several months, Mauna Loa earthquakes predominated. Sixty-three shakes were recorded at Mauna Loa and 55 at Kilauea. Tilt records indicate that there has been a slight decrease in pressure under Kilauea and a slight increase under Mauna Loa during the past year.

Unusually heavy steaming was observed over Mokuawaweke from January 19-22, inclusive. The most conspicuous steam columns were observed on January 21.

Material for the Volcano Letter was compiled and sent to the publisher. A talk on Lassen Volcanic National Park was given on January 29 under the auspices of the Naturalist's program.

Dr. E. A. Powers gave four talks on the use of the seismograph at the Observatory. In addition to the seismograph routine, he completed the review of the bulletin on the geology of this Island by Stearns and Macdonald.

Mr. Loucks was on annual leave until January 5. In addition to usual shop routine he spent one-half day on the survey board, made two large special bolts for the road grader, and cleaned, overhauled and made parts for machine tools.

In connection with goat control work, the first systematic studies of life history and food habits of goats in the park were initiated at Haleakala. The personnel engaged in control work were given simple instructions on taking measurements, making autopsies, determining approximate age groups, stomach analysis, census, etc.

The following summary represents control and observations of the Superintendent, Ranger Davis and Warden Heuene during the month of January at Haleakala:

RECEIVED AS FOLLOWS

Sixty goats were eliminated from the crater, 53 of which were examined, consisting of 25 billies, 20 nannies, and 8 kids less than six months old. In addition to the above, 18 embryos were observed, including six sets of twins and six single embryos, to be added to the above, making a minimum total of 78 goats eliminated from the crater.

Stomach contents of 53 goats examined contained the following native plants listed in order of abundance:

1. Mamani, Sophora chrysochylla, leaves, bark, and flowers.
2. Pilo, Composita sp., berries and leaves.
3. Undetermined bark and twigs.
4. Native geranium leaves.
5. Grasses, several unidentified species.
6. Kukui, none, Composita sp., leaves and berries.
7. Ohelo, Vaccinium reticulatum, berries and leaves.
8. Fern leaves.
9. Evening Primrose, Oenothera sp., leaves.
10. Puhokere, Styphelia sp., shoots.

Most visible damage was reflected in shrubs and trees, particularly the Mamani and Pilo. Goats were observed standing erect on their hind legs reaching for leaves and twigs in the Mamani, which are all plumed lined to a height of over 50 inches. One goat was actually observed in a Mamani tree six feet above the ground, and evidence elsewhere indicates that tree climbing is not uncommon. The Mamani has absolutely no chance for reproduction under the present impact, which has been constant for many years, and will vanish from the crater along with other native species unless more effective control measures can be devised.

No trace of Silverword was observed in stomach contents and there was no visible evidence that the principal Silverword areas are visited by goats. This is attributed to the fact that these areas are barren of other plants and the swords are extremely low in palatability. Since this species is unique to the crater it is fortunate that it enjoys a measure of natural protection.

It is interesting to note that stomach capacities in adult goats average from approximately 1-1/2 gallon to two gallons. Embryos of all ages indicate continual breeding, with twins being most common. Several nannies less than one year old contained embryos and it is estimated that breeding begins at about six months.

Inspections

During the month the Assistant to the Superintendent made four trips to Hilo to inspect and locate suitable construction materials in Army or Navy excess or surplus for the reservoir and pipe line work necessary for construction following the collapse of the 400,000 gallon storage tank. The last week of the month he spent on Maui rounding out our equipment needs from surplus property sales then in progress on that island. Several road and trail inspections were made of the Mauna Loa and Hilina Pali truck trails and the maintenance work in progress on the Chain of Craters Road.

RECEIVED AS FOLLOWS

Ranger Service

All horses and mules grazing in the Kipuka Ki paddock and those in the paddock next to Keahou Ranch were rounded up and carefully examined as to their fitness and perk need of them. Nine mules and two horses will be sold as surplus and four horses will be destroyed as they are worthless.

Several roads were planted with native plants in order to stop vehicles from using them. Part of the guava trees were removed from the Chain of Craters road.

The traffic count was changed in order to find out how many large trucks were hauling over the Maunaloa Highway. It was estimated from the count taken that there were 1275 trips a month by these trucks.

Kilauea Iki Crater was measured for depth and the Footprints Area trails were logged. Some work was done on new signs. Routine patrols were made continually throughout the month. Two dances held at the Volcano House during the month were provided with either one or two rangers on duty.

Maintenance

The maintenance crew put in a busy month on a variety of jobs. The razing of the old Holmes cottage was completed and the area cleaned up. Patching was done on Chain of Craters road and a number of parking areas were widened. The Hilina Pali truck trail was graded as far as Kipuka Nono. Roadside cleanup of Neema Ioa truck trail was made. Repaired and replaced shoring on water tanks at CCC Camp and utility area. Routine janitor work at Administration and Observatory Buildings was performed, as well as wood delivery and garbage disposal.

Forest Protection

At Kilauea section 14 goats were destroyed, and 4 cats and 6 mongooses.

Building Fire Protection

The Park Safety Committee met in the office of the chairman on the 21st to consider the report of Quarterly Fire and Sanitation.

Personnel

Park Ranger Cliff Davis was assigned to Acting District Ranger at Haleakala on January 20 for some weeks.

Park Ranger James Lindsay was transferred from Haleakala to Kilauea headquarters January 24.

Park Warden John Huenig was assigned to goat control and observation at Haleakala January 22 to 27. All transportation was by Navy UFG planes.

RECEIVED AS FOLLOWS

Interpretation

Some changes were made by the Park Naturalist in the scheduled interpretive program which are being continued into the next two months. After consultation with the Volcano House Manager and the recreational directors at Kilauea Military Camp, all talks were changed from evening to afternoon. With the cooperation of Mr. Oberhansley, Mr. Finch, Dr. Powers, and Miss McSennin, a greater variety of illustrated talks are being offered. Copy of program schedule for February and March is attached.

The Park Naturalist gave one talk, "Hawaii National Park in Color", to Pahala school teachers. The Superintendent on January 4 gave a thirty minute interpretive talk to 64 visitors who were waiting for sunrise in the Observatory at Haleakala Crater. In many respects this station offers more opportunities for this type of interpretive service on weekends and holidays than any other contact point in either section of the park. Ranger Davis has continued these talks and it is planned to provide a projector and kodaslides for use at that point, and eventually to install exhibits and guide service.

Travel

At the Kilauea section there were 15,904 visitors, of which 1,452 were in the armed forces. At Haleakala these figures were 700 and 50.

Library

The Hawaiian Volcano Research Association voted a \$3000 fund to pay the salary of a librarian for one year to catalog the publications in the park library, beginning July 1. They also provided funds for a 10-day preliminary survey of the library needs by a librarian from the University of Hawaii beginning February 24.

Visitors

Lt. Gen. John S. Hull and Mrs. Hull
Lester Marks, Territorial Land Commissioner

Frank R. Oberhansley,
Superintendent.

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

February 4, 1947.

Narrative Report for January, 1947, of Asst. to Superintendent.

Special Activities

During the month four official trips were made to Hilo (3rd, 6th, 20th, 24th) to inspect and locate suitable construction materials, in Army or Navy excess or surplus, for the reservoir and pipe line work necessary for construction following the collapse of the 400,000 gallon storage tank.

The last week (22-31) was spent on Maui rounding out our equipment needs from surplus property sales then in progress on that island. A 16 mm. sound projector and 100 one-quart C.T.C. fire extinguishers were secured among several other smaller items. The extinguishers were a good purchase as we now have a need for 52 in the Kilauea section alone to replace those that corroded out during the war years.

Plans, Maps and Surveys- One day was utilized on the Map and Plan File Index.

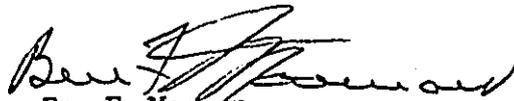
Maintenance- Several Road and Trail inspections were made of the Mauna Loa and Hilina Pali Truck Trails and the maintenance work in progress on the Chain of Craters Road.

All of the 30th was spent with the two-man road crew now working on the Haleakala Road. These men are currently removing the slide material from the deep cuts and clearing the drainage system. This is resulting in a better appearance and safer driving conditions along the completed sections. Since both of these men are new to this work, several methods were shown to them by which they could decrease the amount of future slides by stabilizing the banks as they removed the material now down in the road and ditches.

The new Roads and Trails organization was prepared and submitted to the Director's Office immediately on receipt of memorandum directing this work.

Building Fire Protection. The Park Safety Committee met in the office of the chairman on the 21st to consider the report of the Quarterly Fire and Sanitation Report. This was the subject of a separate memorandum.

Accidents. The Park safety committee considered the Report of Recent Accident (previously reported) in Haleakala Section on the 13th. This report was completed and mailed while I was on Maui.


Ben F. Moonaw,
Asst. to Supt.

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

February 7, 1947

MEMORANDUM for the Superintendent.

The following report of the activities of the Ranger division for the month of January 1947 is respectfully submitted:

All of the animals grazing in the Kipuka Ki paddock as well as those in the paddock next to Keahou Ranch were rounded up in order to find out to whom they belonged and what was to be done with them. They are as follows:

	<u>Mules</u>	<u>Horses</u>
To be kept by the park	7	4
To be destroyed	0	4
To be sold as surplus	9	2
Total	- 16	10
Not belonging to the park:		
Kapapala Ranch -	1	2 Hotel
		1 John Hauanio, Sr.
		1 John Hauanio, Jr.
		3 Frank A. Hjort
Total	- 1	7
Grand Total	- 17	17

A list of animals to be sold is being prepared.

The animals to be destroyed are to be checked by Mr. Fagerlund. The opinion of the Territorial veterinarian has been obtained on the status of all these animals.

The Superintendent has stated that the Hotel horses are to remain until such time as a decision is reached with regard to whether riding horses are to be furnished Hotel guests as a part of the concession.

Hauanio Sr's. horse is to remain until it is determined whether the park can buy it.

Hauanio Jr. has been notified to remove his horse unless it is broken to ride and permission from the Superintendent is obtained to keep it in the park.

Status of Hjorts horses have been previously discussed with the Superintendent.

Haole Sumner has been notified to remove his mule from the park. He will remove it as soon as possible.

The cattle in Kipuka Ki paddock are to be removed, the fence to be repaired, and the water tanks to be checked and repaired where needed according to Haole Sumner when he was notified of same.

Keahou Ranch has completed repair of the fence between our paddock and their land. About 180 new posts were installed as well as a general overhaul of the entire fence. An inspection of the work was made. It was found to be satisfactory. The cattle remaining in the paddock were also removed.

Several roads were planted with native plants in order to stop vehicles from using them. Part of the guava trees were removed from the Chain of Craters road.

Park Warden Hauanio Jr. spent one week on Maui on goat control.

Ranger Lindsay reported to work at Kilauea on the 28th of the month.

Ranger Davis was sent to Maui on the 20th where he remained for the balance of the month.

The traffic count was changed in order to find out how many large trucks were hauling over the Mamalahoa Highway. It was estimated from the count taken that there were 1275 trips a month by these trucks.

4 cats, 6 mongooses, and 14 goats were destroyed in the park this month. No goat drives were made as no contract was let.

Surigao removed his chickens, goat, rabbits, and dog during the month. H. A. Powers removed his rabbits. Waltjen removed his dog. Mr. Abe removed his chicken. A report on the domestic animals is being withheld until most of the pets are removed. Almost everyone contacted has been very cooperative in removing their animals.

Kilauea Iki Crater was measured for depth and the footprints area trails were logged. The signs requested for above plus the Makaopuhi Crater sign and Powers residence signs await your approval as to wording.

Routine patrols were made continually throughout the month. Both dances held at the Volcano House were provided with either one or two rangers on duty.

One patrol was made to Halape during the month. A sampan towing a small boat was observed standing off the coast near Halape. As soon as those on board saw someone coming towards the coast they stood out to sea.

Frank A. Hjort

Frank A. Hjort,
Chief Park Ranger.

20

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

February 5, 1947.

MEMORANDUM for the Superintendent.

Following is the Park Naturalist's monthly report for January, 1947, to which is attached the Statistical Report of Interpretive Services.

General

The Park Naturalist was on duty in the park throughout the month. Considerable time was devoted to completing projects that have been repeatedly interrupted. Some innovations were introduced into the interpretive program.

Administration

The Park Naturalist conferred with the Superintendent on summer interpretive programs and accompanied him in the investigation of possible trail sites. One day was spent on survey board activities and one day rearranging materials and equipment.

Interpretation

Some changes were made in the scheduled interpretive program which are being continued into the next two months. See attached program schedule. After consultation with the Volcano House Manager and the recreational directors at Kilauea Military Camp, all talks were changed from evening to afternoon. With the cooperation of Mr. Oberhansley, Mr. Finch, Dr. Powers, and Miss McMenamin, a greater variety of illustrated talks are being offered. Chief Ranger Hjort will also contribute to the interpretive program. The Park Naturalist gave one talk, "Hawaii National Park in Color", to Pahala school teachers.

Research

The Park Naturalist assisted Dr. Harold St. John of the University of Hawaii in preparing botanical specimens. Nine days were spent on the exotic plant paper and it is hoped that this paper can be finished and mimeographed as a natural history bulletin within the next month.

Photography

The temporary dark room was improved. It is now sufficiently light tight for practically all kinds of photographic processing.

Natural History Association

The annual report was prepared.

Proposed Work for February, 1947

Effort will be directed toward completing the exotic plant paper and, in view of the Park Naturalist's forthcoming transfer, various loose ends of naturalist activities will be brought together.

Gunnar O. Fagerlund

Gunnar O. Fagerlund,
Park Naturalist.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

F R E E

N A T U R A L I S T P R O G R A M S

At Park Lecture Hall

FEBRUARY & MARCH, 1947

Every Monday, 4:00 P.M.

Earthquakes and Seismographs - A popular talk on how Hawaiian volcanoes are studied. DR. POWERS

Every Tuesday, 4:00 P.M.

1942 Eruption of Mauna Loa - An informal talk illustrated with Kodachrome movies. MR. FAGERLUND

Every Wednesday 4:00 P.M. in FEBRUARY and MARCH the following:

FEBRUARY	MARCH
5th - <u>Hawaii National Park in Color.</u> (Kodachrome slides) MR. FAGERLUND	5th - <u>Lassen Volcanic National Park.</u> (Kodachrome slides) MR. FINCH
12th - <u>Sequoia National Park in Color.</u> (Kodachrome slides) MR. OBERHANSLEY	12th - <u>Hot Lava to Fern Jungle.</u> An illustrated talk on soil formation and plant development. MR. FAGERLUND
19th - <u>Death Valley National Monument in Color and Words.</u> (Kodachrome slides) MISS McMENAMIN	19th - <u>National Parks and the National Park Service.</u> An illustrated talk. MR. OBERHANSLEY
26th - <u>A Trip Through Haleakala Crater.</u> (Kodachrome slides) MR. HJORT	26th - <u>Geology of Hawaii National Park.</u> An illustrated talk. DR. POWERS

Any party of ten or more persons desiring an interpretive talk or a guided hike or tour should submit a request to the Superintendent at least 24 hours in advance.

FRANK R. OBERHANSLEY,
Superintendent.

GUNNAR O. FAGERLUND,
Park Naturalist.

Copies of this program schedule may be obtained on request

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		
	Interpretive	Administrative	Other
Permanent	One	Two	Two
Temporary			

January
Month
1947
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	1	10	2 hours
Walks or Hikes			
Ruins or Hist. House			
Other	15	50	2 1/2 hours
Total	16	60	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	10	350	1 hour
Orientation (Not connected with conducted trip)	1	30	1/2 "
Other (Not connected with conducted trip)	12	60	
Total	23	440	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
(Give Name or Type)	Total		

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	31	1600	
Kipuka Puuulu " "	31	800	
Tree Molds	31	160	
Observatory	25	800	
Silversword Trail	31	500	
(Give Name or Type)	Total	3860	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	1	40	1 hour
Displays and Exhibits			
Replies to Inquiries			
Other			

4,400
Total Receiving Interp. Serv.
16,750
Total Number Visitors to Area

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

NAME Gunnar O. Fagerlund
Gunnar O. Fagerlund
TITLE Park Naturalist

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

*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 OVERLOOKS, 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

February 5, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for January 1947.

In January, as for several months, Mauna Loa earthquakes predominated. Sixty three shakes were recorded at Mauna Loa and 55 at Kilauea. Tilt records indicate that there has been a slight decrease in pressure under Kilauea and a slight increase under Mauna Loa during the past year.

Unusually heavy steaming was observed over Mokuaweoweo from January 19-22 inclusive. The most conspicuous steam columns were observed on January 21.

Material for the Volcano Letter was compiled and sent to the publisher. A talk on Lassen was given on January 29 under the auspices of the Naturalist's program.

Dr. H. A. Powers gave 4 talks on the use of the seismograph at the Observatory. In addition to the seismograph routine he completed the review of the bulletin on the geology of this Island by Stearns and Macdonald. This occasioned working overtime on several days.

Mr. Loucks was on annual leave until January 5.

In addition to usual shop routine he spent 1/2 day on the survey board, made 2 large special bolts for the road grader, and cleaned, over hauled and made parts for machine tools.

R. H. Finch

Ruy H. Finch,
Volcanologist.

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

Haleakala Section

February 1, 1947

Memorandum for the Superintendent:

Subject: Monthly narrative report for January, 1947

The Acting Ranger In Charge reported for duty at Haleakala on January 20th. and on the following day left for a brief orientation trip into the crater.

Park Warden John Hauanio arrived for a short tour of duty in the crater on goat control.

Laborers Charles Hamili and Benjamin Hauanio reported for duty on January 10th.

Assistant to the Superintendent Ben Moomaw spent several days acquiring surplus property for use in both sections of the park.

General Weather Conditions in the Park.

The weather was unusually favorable during the month, much to the delight of visitors.

Maximum temperature-----	68 degrees on the 25, 26, and 27th.
Minimum temperature-----	29 " " " 4th.
Rainfall total-----	4.54 inches.
Clear days-----	28
Partly cloudy-----	3
Cloudy-----	0

Special Activities

A trip was made into the crater to inspect the trails, silverswords, and to check the progress of Park Warden Hauanio on goat control and stomach analysis.

A number of people were met in Wailuku and Kahalui and there seems to be a very nice feeling toward the Haleakala Section. Mr. Ezra Crane of the Maui News is an old friend of mine as well as a good friend of the National Park.

Maintenance.

Laborers Hamili and Hauanio have removed all hazards on the road and are now concentrating on banks and cuts where slides are most likely to occur.

Some locks were installed at the Army base camp.

Interpretive Service.

One thirty minute talk was given to thirty sun risers and it appeared to be well received. These talks are given on Sundays as the travel on other days does not warrant it.

Research and Observation.

The stomach contents of 38 goats killed by Park Warden Hauanio contained the following plants:

- * 1-Grasses, several unidentified species.
- * 2-Pilo berries, Coprosma sp. Native
- Pilo leaves, " " "
- 3-Kukai nene berries, Coprosma sp. "
- " " leaves, " " "
- * 4-Mamani leaves, Sophora chrysophylla "
- " flowers, " " "
- 5-Kupaoa leaves, Raillardia sp. "
- 6-Puukeawe shoots, Styphelia sp. "
- 7-Ohelo berries, Vaccinium reticulatum "
- 8- " leaves, " Sp. "
- 9-Fern leaves, (sword tail?) "
- * 10-Native geranium leaves ? 2
- II-Oenothera sp. (leaves) Exotic
- * 12-Undetermined bark and twigs. Probably mamani, pilo, and Raillardia.
- * Abundant in stomach.

Goats are very numerous in the crater and the following series of pictures show damage to the native vegetation:



Heavy browsing of lower branches, mamani tree



Broken branches and twigs, mamani tree.



Damage to mamani reproduction
Pilo (Coprosmia sp.) in background.

Research and observations (con't)

The silver swords within the crater were found to be in a thriving condition and considerable reproduction in places was noted. No signs of goat injury were found but the crater has not been thoroughly explored.



A typical silversword community in all stages of development.



A detached silver-sword stalk showing injury to same by Lepidopterous borers.

Wildlife Management

Fourty goats were eliminated from the crater during the month.

Respectfully submitted,

Cliff Davis

Cliff. Davis

Acting Ranger in Charge.

Feb 12, 1947

Memo for the Dept.

Subject: Foreman's monthly report.

201. Razed old Holmes cottage and cleared up area.

207. Routain maintenance of grounds around administration building and public camp grounds.

216 jumped out floor drains quarters # 22.

212. Repaired and replaced showing in water tanks at CCC camp and utility area.

218. Routain janitor work. administration and observatory bld.

307. Routain Kerosene delivery and garbage disposal.

502. Patching Chain of craters road and widening of parking areas.

502.1 Grading Hilina Pali Truck Trail as far as Leipuka Nene.

Roadside Cleanup Maina Loa Truck trail

Hubert J. Quade
Foreman C.F.M.

10-23
(May 1923)
6-7410

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

FILE NO.

Supt's Monthly Narrative Report

~~December~~, 1946

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

Summary of December 1946 5-page Monthly Narrative Report
Hawaii National Park

General, p.1.- Auditor Glenn completed audit of CCC and park accounts on December 16 and left on the 17th for Honolulu en route to the mainland by plane.

Weather, p.1.- Precipitation at Kilauea 27.83" and at Haleakala 28.64". Maximum and minimum temperatures at Kilauea were 71 and 48; at Haleakala ranger station 62 and 33.

Special Activities, p.1.- Conference had with Col.C.E.Rantzow, U.S. Engineers, Fort Armstrong, regarding transfer of all army buildings and installations near the Haleakala ranger station to the National Park Service. Immediate custody and use of all buildings granted this park. Arrangements made with K.M.C. whereby they will make a cleanup of the camp and remove unsightly shacks and gravel stock piles from sight of the road. 83,000 board feet of redwood lumber that had been abandoned by former army forces in the park and which was stored at K.M.C. was turned over to the park without exchange of funds. This lumber is now in storage in one of our CCC camp barracks pending use under ROP for enlargement and completion of structures in the utility area.

Research & Observations, p.2.- During December 70 earthquakes were recorded at Nana Ica and 54 at Kilauea.

Inspections, p. 2.- December 10-14 superintendent made inspection of army buildings at Haleakala section and made study of visitor need to that section of the park.

Surplus Property, p.3.- Considerable amount household furnishings were obtained from the FOU Nana Naval Air Station on Maui without exchange of funds, which will be used to take care of future needs in both sections of the park.

Water, p.3.- Collapse of concessioner's 400,000 gal. storage tank menaces his water supply.

Travel, p.5.- At Kilauea section there were 18,357 visitors, of which 4,100 were in the armed forces.

Miscellaneous, p.5.- Annual Christmas party a great success.

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

January 10, 1947.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of December, 1946.

General

Traveling Auditor Glenn completed audit of CCC and park accounts on December 16 and left on the following day, December 17, for Honolulu en route to the mainland by plane.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 71° and 46°. At Haleakala ranger station these recordings were 62° and 35°. Total rainfall at Kilauea was 27.83" and at Haleakala 28.64".

Special Activities

On December 1 the superintendent completed the last leg of an around-the-island trip with Traveling Auditor Glenn and Mrs. Oberhensley. The following day a conference was had with Col. C. S. Kentzow, Real Estate Officer, U. S. Engineers, Fort Armstrong, concerning transfer of all Army buildings and installations near the Haleakala ranger station. Colonel Kentzow confirmed and elaborated upon his written approval that we assume immediate custody of all facilities there to provide security and to make such use of them as is desired so long as nothing is removed from the area. It is planned to convert the officers' club into additional quarters when funds are available.

December 3 discussion was had with Colonel King and Colonel Wero, Commanding Officer and Executive Officer of K.M.C. regarding the general appearance of the camp. The Commanding Officer agreed to have all unsightly areas adjacent to the prisoners' stockade cleaned up - unsightly sheds and gravel stock piles removed from sight of the road. The prisoners formerly kept in the compound at K.M.C. have all been shipped home, especially to Japan, Okinawa and Korea, and it is hoped that the cleanup can be completed within the coming month. In this connection, it was discovered that former army forces in the park had abandoned 63,000 board feet of redwood lumber and had been stored in various locations at K.M.C. All of this lumber has been released to us, without charge of any kind, and is now in storage in one of our CCC camp barracks pending use under FWP for enlargement and completion of structures in our utility area.

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Research and Observation

During December, as in the past few months, more earthquakes originated under Mauna Loa than under Kilauea. Seventy shakes were recorded at Mauna Loa and 54 at Kilauea. The preponderance of the Mauna Loa shakes as well as the earthquake pattern are indications of continued uneasiness of Mauna Loa volcano. Tilt records do not show indications of impending activity. There was a slight southerly tilt during the month, or opposite in direction to that which shows a swelling under Kilauea. There was no accumulation of tilt either east or west in December.

All the cracks measured in the vicinity of Halemauau and along the Chain of Craters Road showed no movement. On several days, following heavy snowfall, dense steam clouds arose from Halemauau.

Work was started on a manuscript entitled "On the Mechanism of the Explosive Eruptions of Kilauea in 1924".

In addition to doing most of the seismological routine Dr. H. A. Powers worked on tilt records and started reviewing the Stearns and Macdonal bulletin on the Geology of the Island of Hawaii.

On the afternoon of December 26 the superintendent observed an Hawaiian owl in the act of catching a rat near Bird Park.

Inspections

Inspections were made of various remote sections of the park, including Hilina Pali section and Mauna Loa strip, the Kau desert, and Footprints area to observe the impact of goats and pigs - a continuous problem requiring incessant control.

December 10 to 14 the superintendent, in company with Traveling Auditor Glenn, Chief Ranger Hjort, and Mrs. Oberhansley, made an inspection of the Haleakala section of the park in connection with a lecture presented before the Maui Rotary Club. There was a record attendance of 150 leading business, professional, ranch and plantation men present on this occasion. The Haleakala section of the park was discussed as a typical day-use area but some justification for visitor accommodations was recognized. Increased knowledge and observation will result in recommendations for at least three types of accommodation which may be provided by a concessioner with expectation of reasonable profit. While on Maui the superintendent interviewed three applicants for the concession at Haleakala, viz:

John S. Sprinkle, Mokuoao, Maui
Edmund H. Rogers, Wailuku, Maui
N. H. Buxton, Wailuku, Maui

The last named applicant has held the contract at Haleakala for several years but has not made any attempt to offer accommodations at any time to visitors.

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Inspections (continued)

On December 11 the superintendent went to the rim of Haleakala Crater to observe the sunrise and to study visitor needs. Thirty visitors, including only five orientals, were present at the rim at 5:00 A.M. shivering in the cold observatory while waiting for the sunrise. At the earliest possible date it is planned to provide a semblance of warmth and comfort (perhaps coffee and simple refreshments) for visitors in the observatory building. It was felt there were also excellent opportunities for interpretive services at that point.

An inspection of the army buildings at Haleakala revealed considerable theft of light fixtures, laundry tubs, shower heads and other fixtures. Immediate steps were taken to provide security by constructing a short fence adjacent to the highway and installing a padlocked gate leading to the camp with appropriate sign.

Surplus Property

While on Maui an inspection was made of various stock piles of surplus property at the Puu Nene Naval Air Station. Auditor Glenn assisted in listing various items of household furnishings which it is planned to install in various residences of the park as an economy measure in connection with employees' transfers. It is anticipated that complete sets of furniture can be acquired to take care of all future needs in the Haleakala section of the park and provide a good share of the proper furnishings of the Kilauea section.

Water

December 9 inspection was made of all water storage facilities in the park as the result of the collapse of part of the bottom of a 400,000 gal. storage tank in the concessioner's area. Since this 400,000 gal. tank represents almost one-half of the concessioner's total storage, he will undoubtedly have to close down all of his cabin accommodations, and possibly part of the hotel, unless this storage can be replaced. Approximately one-half of all wood tanks in the park are in danger of collapse, due to decaying supports, which will be replaced as soon as funds are available for this and other deferred maintenance work. Also, practically all of our tanks need protective coverings against rodents, birds and wind-blown debris.

Maintenance

Work of converting old foreman's quarters at CCC camp into two living quarters for temporary employees was started and is about 95% complete. Hauled and stored 63,000 board feet of lumber given us by K.M.C. Routine maintenance of telephone system and general routine including roadside cleanup, cleaning ditches, reshaping road shoulders kept the crew busy all the month. The Foreman constructed a paint spray outfit which it is expected will reduce man hours for painting in general about 50%.

Ranger Service

The ranger force again helped on telephone line work and installed a telephone at the Hilo entrance to the park which is needed. Work was begun on a comprehensive sign project and the unsightly names in Keanae Crater left by visitors were removed.

RECEIVED AS FOLLOWS

Ranger Service (continued)

Two unauthorized busses carrying sightseers wishing to make a tour of the park were turned back at the Hilo entrance. The usual patrols and week-end duty were performed.

Forest Protection

At Kiluaea section 14 goats were disposed of. The Annual Forestry Report for 1946 was prepared together with the Annual Forest Insect Report.

Building Fire Protection

Routine inspections of fire engines and other equipment were held throughout the month. The Quarterly Fire and Sanitation Inspection Report was prepared.

Insects and Tree Diseases

Ranger Davis inspected several sample forest areas and took photographs for completion of the Annual Forest Insect Report. He also continued observation of the Ohia dieback to try and determine its cause.

Park Naturalist Activities

In addition to the scheduled interpretive programs consisting of two weekly lectures in the park, several special programs were given on request. The superintendent gave three lectures outside the park - 1 for Maui Rotary Club, 1 for International Club of Hilo, and 1 for Hilo Chamber of Commerce. The Park Naturalist spent some time improvising a dark room so that in emergency negative material can be processed and contact printing done. Some items of equipment and chemicals were received as surplus property.

Personnel

Older members of the staff were sorrowed to hear of the sudden death on December 6 of former Ranger Kenneth J. Williams who served in this park from 1931 to 1938.

Warden McCall returned to Haleakala on December 2 after a week's training at headquarters.

Former Chief Clerk Higashida was in the park December 6-8 in reference to closing out OPA office in Hilo.

Cooperating non-Government Agencies

Louise and George Armitage were in the park from December 24 to the end of the month. Mr. Armitage, who is secretary of the Hui O Pele Club, was interested in knowing how several thousand dollars of the funds collected by the organization through the sale of certificates might be used to advantage in the park. It was

RECEIVED AS FOLLOWS

decided to reserve that fund to be used in our museum library development program when the final plan is approved.

Library

Mr. Lorrin P. Thurston, President, Hawaiian Volcano Research Association, has indicated to the superintendent that his organization stands ready to donate \$5,000 to employ a competent librarian for one year to straighten out and classify the present existing collection of pamphlets, books and other publications, which undoubtedly would have great value if organized for use. The proposal was made conditionally, however - with the understanding that the park organization would make every effort to keep the library material filed currently thereafter by assigning a part-time clerk librarian to this work, which of course we could not pass on.

Miscellaneous

The staff members of the Kilauea section combined their various efforts on evenings and weekends to rehabilitate the recreation hall at the CCC camp for the annual Christmas party and future community activities. The hall is now very attractive and it is hoped it will contribute to the enjoyment and morale of the community as a whole. The Christmas party was perhaps the most successful in park history. Some 65 children and approximately the same number of adults were in attendance. A chorus of park children reflected the excellent training Mrs. Howard A. Powers had given them in presenting a beautiful program which was enjoyed by not only the park personnel but also by representatives of K. M. C., the Hilo Naval Air Station, and families in the immediate vicinity of the park. Each child was given a very nice gift by the officiating Santa Claus and the gorgeous tree was laden down with colorful stockings of candy, nuts and fruit. Refreshments were served to all present.

Visitors

Mr. and Mrs. Lindsley Austin, Honolulu. Mr. Austin is Vice Pres. C. Brewer & Co.
Dr. and Mrs. Wentworth, both of University of Hawaii, Honolulu
Dr. Harold St. Johns, Professor of Botany, University of Hawaii, and 16 students spent a week in the park.
Judge Martin Ponce, Hilo

Travel At the Kilauea section there were 18,357 visitors, of which 4,100 were in the armed forces.

(SGD) F. R. OBERHANSLEY

Frank E. Oberhansley,
Superintendent.

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

January 6, 1947

MEMORANDUM for the Superintendent.

Following is the Park Naturalist's monthly report for December, 1946, to which is attached the Statistical Report of Interpretive Services.

General

The Park Naturalist was on duty in the park from December 1, to December 20 inclusive. Six days were spent on duties connected with chairmanship of the Board of Survey.

Interpretation

The scheduled interpretive programs consisted of two weekly lectures in the park -- one on the 1942 eruption and general geology and volcanology of the park, and the other by Dr. Powers on Seismology. Several special programs were given on request. The Superintendent gave three lectures outside the park, (1) Maui Rotary Club, (2) International Club of Hilo, and (3) Hilo Chamber of Commerce.

The Park Naturalist talked with District School Supervisors Mrs. Giacommetti and Mr. De Silva about giving National Park programs in the schools of the Island. Both were enthusiastic about it and would take it up in conference with their principals early in January 1947.

The Park Naturalist gave an illustrated talk before the Park Journal Club.

An article was prepared for Tear Sheet.

Library

Books and periodicals were ordered to the extent of the allotment of funds for this purpose.

Natural History Association Activities

A design for letterhead stationery was prepared and a supply of such stationery was printed by Hilo Tribune Herald.

One day was spent on the Road and Trail Map and on illustrations for the Geology Guide.

Photographic and Other Visual Aids

A day was spent improvising a dark room so that in emergency negative material can be processed and contact printing done. Some items of equipment and chemicals were received as surplus property.

Some time was spent filing negatives.

Proposed Naturalist Activities, for January 1947

A few days will be required to complete work of the Survey Board.

The interpretive program in the park will be expanded a little and it is expected that several days may be spent in giving talks at schools on the Island. In view of a probable transfer it is hoped that time will be available to bring loose ends together and to complete two or three papers.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Park Naturalist.

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED:

Interpretive Administrative Other
Permanent one one one
Temporary _____

Name of Area

December
Month
1946
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	<u>16</u>	<u>70</u>	<u>2 hrs</u>
Walks or Hikes			
Ruins or Hist. House			
Other			
Total	<u>16</u>	<u>70</u>	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	<u>11</u>	<u>307</u>	<u>1 hr</u>
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)	<u>15</u>	<u>75</u>	
Total	<u>26</u>	<u>382</u>	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
<u>Thurston Lava Tube Trailside Exhibit</u>	<u>31</u>	<u>2,000</u>	<u>1/4 hr</u>
<u>Kipuka Puaua</u>	<u>31</u>	<u>1,000</u>	"
<u>Tree Molds</u>	<u>31</u>	<u>210</u>	"
<u>Observatory</u>	<u>27</u>	<u>1,000</u>	"
<u>Silversword Trail</u>	<u>31</u>	<u>200</u>	"
(Give Name or Type) Total	<u>151</u>	<u>4,400</u>	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
(Give Name or Type) Total			

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	<u>3</u>	<u>210</u>	<u>1/2 hr</u>
Displays and Exhibits			
Replies to Inquiries			
Other			

5,062
Total Receiving Interp. Serv.
18,357
Total Number Visitors to Area

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

NAME Gunnar O. Fagerlund
TITLE Park Naturalist

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

*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 OVERLOOKS, 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, 1947

MEMORANDUM for the Superintendent.

Subject: December 1946 Narrative Report of Activities of Asst. to
Supt. and Acting Park Engineer.

General

With the exception of the activities noted in the following headings the month was spent at Headquarters on routine duties.

Older members of the staff were sorrowed to hear of the sudden death on December 6 of former Ranger Kenneth J. Williams who was on this staff from 1931 to 1938.

Special Activities

Road and Culvert Inspection of Hilina Pali Road accompanied by R&T Equipment Operator during a torrential rain on 6th.

Hilo on 17th to take Field Auditor Marlow Glenn to the Airport for his return to San Francisco.

The initial meeting of the new housing committee was held in the undersigned's office 26th to organize and discuss local policies for the committee. This group consists of Dr. Powers, Mr. Quick, Mr. Hjort and the undersigned as Chairman.

Plans, Maps and Surveys

A total of eight days were spent in collecting, indexing and filing the Parks blue prints, maps and tracings. No work had been done on these items since Eng. Aide A. L. Jess left the Park in 1942 for War work - the job is not completed at this writing and will require many more days in the near future.

Due to the emergency caused by the failure of the 400,000 gallon red wood tank of the concessioner three days were spent on estimates for new water storage facilities to replace this tank and in company with Mr. Quick many items of Surplus and excess construction materials were located. Separate report was made to Region IV by Supt. Oberhansley in regard to this Emergency.

Cooperating Governmental Agencies

Both Army and Navy Agencies cooperated thoroughly with Mr. Quick and the undersigned in locating surplus and excess construction materials for the water storage mentioned above.

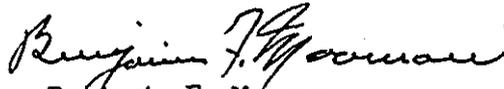
Regular Safety Council meeting at Kilauea Military Camp was attended on 20th.

Police Protection

Mrs. Lindsley Austin and Mrs. Charles Gregory, of Honolulu and guests of the Volcano House were apprehended by Park Naturalist G. O. Fagerlund for breaking shrubbery in the vicinity of Park Headquarters and the Volcano Observatory on the 27th. Since the Supt. was in Hilo they were brought before the undersigned. These ladies had some difficulty in understanding that they were not privileged to do this here as they were members of old Island families and at first greatly resented the interference by Messrs Fagerlund and Moomaw. We believe that after the completion of their trip to Headquarters the act will not be repeated.

Accidents

The Park Safety Committee held its organizational meeting on the 27th. The personnel of this committee is the same as that of the Housing Committee.


Benjamin F. Moomaw,
Asst. to Superintendent.

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

January 2, 1947

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report on Activities of Maintenance
Division during month of December.

- 201.
1. Started razing old Holmes cottage but due to adverse weather work was stopped.
 2. Work of converting old foreman's quarters at C.C.C. Camp into two living quarters for temporary employees was started and is now 95% complete.
- 207.
1. Routine maintenance grounds around headquarters, Supt., single girls quarters and public camp grounds was carried out.
- 208.
1. Revamped floor plug circuit at quarters #17.
- 209.
1. Routine maintenance of telephone system.
- 211.
1. Pumped out and flushed basement drains quarters #22.
- 212.
1. Routine pumping of water to high tanks.
- 217.
1. Checked and serviced sedans numbers 26, 27, 29.
- 218.
1. Routine janitor work in Administration and Observatory buildings.
 2. Roadside cleanup, servicing of public rest rooms and policing of public camp grounds.
- 101.
1. Mechanic Fujimoto spent two days with the survey board.

104. 7. Took two days, compensatory leave to go to Honolulu to assist in
1. Serviced car #41. Working in on the butane.

307.

Respectfully submitted,

1. Routine garbage collection, kerosene and wood delivery.

2. Repaired refrigerator quarters #15.

Herbert J. Quick
Herbert J. Quick

502.

1. Cut and reshaped a portion of the shoulders of section 3A Mamalahoa highway in the vicinity of Sulphur Banks and Steam Flat.

2. Reshaped shoulders section 3B Mamalahoa Highway.

3. Cleaned ditches on the Uwekahuna Bird Park road south rim of crater.

4. Roadside cleanup Mauna Loa Truck Trail.

5. Installed blockade on lower utility road.

6. Assisted in removing and obliterating of names and etc. floor of Keanakakoi crater.

7. Hauled and stored 63,000 Bft. of lumber given us by K. M. C.

8. Serviced all roads and trails rolling stock.

Miscellaneous Activities of Foreman C&M.

1. Made inspection of Mauna Loa Truck Trail with the superintendent on December 4th. Combine with location of wood to be used for domestic consumption.
2. Constructed paint spray outfit on week end. This piece of equipment will reduce our man hours for painting in general about 50%.
3. Assisted Mr. Moomaw make preliminary estimate for new water storage system.
4. Started hauling furniture received on surplus in Maui from Airport.
5. Made trip to South Point Army Air Base in search of prefabricated 500,000 gal. reinforced concrete tank forms in company of Assistant to the Superintendent.
6. Contacted Mr. Charles Niel of the Mutual Telephone Company concerning the installation of tidal wave warning hookup through the park telephone system.

CORRECTION

THE PRECEDING DOCUMENT(S) HAS
BEEN REPHOTOGRAPHED TO ASSURE
LEGIBILITY
SEE FRAME(S)
IMMEDIATELY FOLLOWING

Wilson Jones

0

0

104.

1. Serviced car #41.

307.

1. Routine garbage collection, kerosene and wood delivery.
2. Repaired refrigerator quarters #15.

502.

1. Cut and reshaped a portion of the shoulders of section 3A Mamalahoa highway in the vicinity of Sulphur Banks and Steam Flat.
2. Reshaped shoulders section 3B Mamalahoa Highway.
3. Cleaned ditches on the Uwekahuna Bird Park road south rim of crater.
4. Roadside cleanup Mauna Loa Truck Trail.
5. Installed blockade on lower utility road.
6. Assisted in removing and obliterating of names and etc. floor of Keanakakoi crater.
7. Hauled and stored 65,000 Bft. of lumber given us by K. M. C.
8. Serviced all roads and trails rolling stock.

Miscellaneous Activities of Foreman C&M.

1. Made inspection of Mauna Loa Truck Trail with the superintendent on December 4th. Combine with location of wood to be used for domestic consumption.
2. Constructed paint spray outfit on week end. This piece of equipment will reduce our man hours for painting in general about 50%.
3. Assisted Mr. Moomaw make preliminary estimate for new water storage system.
4. Started hauling furniture received on surplus in Maui from Airport.
5. Made trip to South Point Army Air Base in search of prefabricated 500,000 gal. reinforced concrete tank forms in company of Assistant to the Superintendent.
6. Contacted Mr. Charles Niel of the Mutual Telephone Company concerning the installation of tidal wave warning hookup through the park telephone system.

7. Took two days compensatory leave to go to Honolulu to meet my wife's folks coming in on the Matsonia.

Respectfully submitted,

Herbert J. Quick
Herbert J. Quick
Foreman O&M.

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

January 8, 1947

MEMORANDUM for the Superintendent Frank R. Oberhansley.

The following report of the activities of the ranger division for the month of December, 1946 is respectfully submitted:

Maintenance

Repair work was done on telephone lines #10 and #14. A telephone was installed at the Hilo entrance to the park.

The pasture fence was repaired in two places.

The trail from the road to Makaopuhi crater was repaired where an opening crack had caused its collapse.

All the names in Keanakoi Crater were removed with the help of one laborer. The sign forbidding people to hike in the crater was brought out of the crater and installed on the path leading into the crater.

All the names were removed from below Uwekahuna.

Cooperating Non-Governmental Agencies.

Foreman Lindsay at Keauhou Ranch was contacted and informed that the fence between the park and ranch was down. He agreed to furnish some men and all the posts for repairing same.

Donations

K. M. C. gave us an old bicycle wheel with which to make a trail measuring device.

Increase or Decrease in Travel

Bad weather on two week ends caused a slump in visitors this month.

A more careful check is being made of the number of park visitors who actually visit part of the park as distinguished from those who merely drive through on the main highway.

Ranger Service

Ranger Davis gave on talk on the Mauna Loa 1942 Eruption. Several parties of visitors were conducted around the park by rangers while on patrol.

Police Protection

Several people were warned for speeding through the 25 m.p.h. zone adjacent to the park headquarters. One large party of soldiers with their girls was caught about to enter Keanakoi Crater and admitted they were going to leave their names on the floor. When it was explained to them why they could not do this they were very nice and thanked me for my courtesy in telling them.

Two busses were caught at the Hilo Entrance and turned back because they were going to enter the park and take their passengers on a sightseeing tour.

Red Forbes caused a small riot at the Volcano House. He has been told to stay out of that establishment from now on.

Several weekend patrols were made before dawn in an attempt to find out if pig hunters are sneaking in on the Chain of Craters road. No one was apprehended.

Patrols were made to Hilina Pali and Mauna Loa truck trail at both very early and late hours. Goat hunters were seen to have been at Hilina Pali but had departed leaving a dead goat in front of the shelter door.

Wildlife and Exotic Animal Control

The contractor removed only ten goats this month. Four goats were destroyed by park personnel.

Five house cats were removed from the park. Three have been seen at large in the headquarters area and two at K.M.C. Work is continuing on their capture.

Four mongooses were caught and destroyed.

Two dogs have been removed from the park.

Forest Fire Protection

The Annual Forestry Report for 1946 was prepared and submitted to your office along with Ranger Davis' Annual Forest Insect Report.

Building Fire Protection

The Quarterly Fire and Sanitation Inspection report was held by Ranger Davis, Warden Hauanio and me. Paper work for same is ready for typing now.

Routine inspections to fire engine and other equipment were held throughout the month.

Warden Hauanio removed the straw and other unsightly rubbish at Uwekahuna Museum and boarded up the building where the straw was kept so curious visitors could not enter.

Insects and Tree Diseases

Ranger Davis inspected several sample forest areas and took photographs for completion of the Annual Forest Insect Report. He also continued observation of the Ohia dieback to try and determine its cause.

Miscellaneous

Because several telephone calls by rangers and others have not been answered between 1:00 o'clock and 2:00 o'clock and to be prepared in case of fire or accident the ranger on duty will sit at the switchboard when Miss Ah Sing is out to lunch. With two rangers on duty on weekends one man will be on the switchboard for eight hours on Saturday and Sunday also.

Planning

Plans from last month to remove names from Keanakakoi Crater and Uwekahuna area were carried out but the brushing out of the remainder of Kilauea Iki trail was not undertaken due to pressure from other projects.

Planning for this month includes the planting of the unsightly scars left along the various roads where vehicles were driven into the vegetation as well as some unnecessary roads that can be closed in this way.

The removal of some of the exotic guava shrubs along Chain of Craters road is also planned.

The sign making project is about ready to start as the router is in operation. The router bits ordered from Honolulu have not arrived but some makeshift ones can be used for a time.

Frank A. Hjort

Frank A. Hjort,
Chief Park Ranger.

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

January 4, 1947

MEMORANDUM for the Superintendent.

Subject: Report of Hawaiian Volcano Observatory for December 1946.

During December, as in the past few months, more earthquakes originated under Mauna Loa than under Kilauea. Seventy shakes were recorded at Mauna Loa and 54 at Kilauea. The preponderance of the Mauna Loa shakes as well as the earthquake pattern are indications of continued uneasiness of Mauna Loa volcano. Tilt records do not show indications of impending activity. There was a slight southerly tilt during the month, or opposite in direction to that which shows a swelling under Kilauea. There was no accumulation of tilt either east or west in December.

All the cracks measured in the vicinity of Halemaumau and along the Chain of Craters Road showed no movement.

On several days, following heavy rainfall, dense steam clouds arose from Halemaumau.

Work was started on a manuscript entitled, "On the Mechanism of the Explosive Eruptions of Kilauea in 1924."

In addition to doing most of the seismological routine Dr. H. A. Powers worked on tilt records and started reviewing the Stearns and Macdonald bulletin on the Geology of the Island of Hawaii.

B. J. Loucks was on leave from the 20th until the end of the month. Most of his time was spent in organizing the Machine Shop, setting up the teleseism annunciator, and assisting in seismological routine.

R H Finch

Ruy H. Finch,
Volcanologist.

78/13

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



Wailuku, Maui
January 5, 1947

Memorandum to the Superintendent Frank R. Oberhansley:

The following narrative report for the month of December 1946 is respectfully submitted;

Superintendent Oberhansley paid this section of the park a four day visit. While on the Island he was a guest at a Rotary Club luncheon where he gave a very impressive talk.

Mrs Oberhansley, Mr. Glenn (Park Auditor), and Chief Ranger Frank Hjort accompanied the Superintendent on this trip.

This being Mrs Oberhansley's and Mr Glenn's first trip to the Island, a short conducted tour of the Island was made.

The weather as usual was perfect for visitors.

General Weather Conditions in the Park

Extremely heavy and continuous rains during the latter half of the month have caused many wash-outs and great damage to the park trails.

Maximum Temperature-----62 degrees on the 28th and 29th
Minimum Temperature-----35 degrees on the 13th
Rainfall total-----28.58 inches
Clear days-----13
Partly cloudy days----- 8
Cloudy days-----10

Park Inspections.

As already stated Superintendent Oberhansley and Chief Ranger Hjort inspected this section of the park this month. Chief Ranger Hjort made a hurried trip in and out of the crater to inspect the trail.

Labor Situation

The labor situation here is very serious. The different employment agencies have been contacted to no avail and there is far more work than any two people can possibly keep up.

Public Service Contractors.

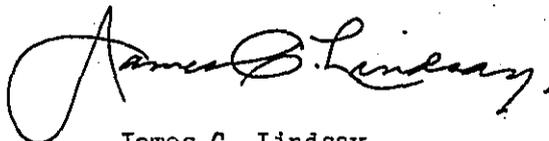
Nothing has been done by the Maui Grand Hotel to provide any sort of service to take the people through the crater.

Flora

The Pukeawe (*Styphelia tameiameia*) is becoming very striking on account of its white and red berries.

Destruction of Exotic Animals.

No goats were killed in the park this month.



James C. Lindsay
Ranger

10-23
(May 1929)
6-7410

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

FILE NO.

Superintendent's Monthly Report

November, 1946

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

December 9, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of November, 1946.

General

Regional Engineer Crowley, Regional Architect DeLong, and Regional Landscape Architect Hill continued their work and inspections in the park until November 8. They completed sketches of proposed physical improvements involving a complete reappraisal of Government and Concessioner problems and revision of our entire Project Construction Program. The insight they gained of park needs will reflect in better Regional understanding of local problems. Field trips were taken to various parts of the park not seen by them previously and conferences were held with the concessioner, Kilauea Military Camp Commander, Col. Warren E. King, and Manager Williams of the Oloa Sugar Plantation, concerning mutual problems of development, operation, and water supply. The Oloa Sugar Plantation is decidedly interested in furnishing water to the park by pumping through a system they would like to see financed by consumers, who would also assume charges of pumping by a relay system on a cost plus basis that would relieve them of this expense in their own operation. We concurred with Mr. Crowley's estimate of a cost of \$2.50 per 1000 gallons by this method, in addition to installation costs, which appears to be prohibitive.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 76° and 49°. At Haleakala ranger station these recordings were 48 and 39. Total rainfall at Kilauea was 6.25" and at Haleakala 6.71

Special Activities

From November 8 to 14 the Superintendent and Regional officials were in Honolulu where conferences were had with Field Auditor Glenn, who was en route to the park, Concessioner Nick Lycurgus, Governor Steinbeck, Attorney General Tavares, E. E. Tillet, Dr. Jagger, President Sinclair of the University of Hawaii, and others. Governor Steinbeck and Attorney General Tavares gave assurance that the Territory would soon complete the acquisition of the last parcel of land in the Kalapana Extension, thus removing the last barrier to the inclusion of this primitive area into the park.

The major portion of November 12 was spent in the field with Mr. Colin G. Lennox, President Territorial Board of Agriculture and Forestry, inspecting

RECEIVED AS FOLLOWS

recreational sites on Oahu. Mr. Lannox expressed his thanks personally and by letter for helpful suggestions and advice of the regional officials on this occasion.

An aerial 3-hour reconnaissance was made of the entire island of Kauai by Navy plane from Honolulu Naval Air Station and all were agreed that the Waimea Canyon and adjacent coast line are of national park calibre as spectacular scenic examples of stream and wave sculpture. On several occasions territorial residents have expressed a desire to have this section of Kauai included in the national park system in order that it might be preserved and made available to all. It at least deserves national monument status, whose activities could well be coordinated with those of this park.

On November 14 a discussion was had with Col. C. E. Rantzow, Real Estate Officer at Fort Armstrong, and arrangements were made whereby we were given temporary custody of Army buildings in the Haleakala section near the ranger station for security purposes and such use as we desire until final transfer is completed. With this authority we immediately assumed custody and transferred a circulating hot water heating system from the small PX building to the ranger station, thus providing living comforts there that should have been considered when the station was constructed in 1940. While detailed to install the heating system, Chief Ranger Hjort, Foreman Quick and Ranger Lindsay apprehended two territorial road employees in the act of stealing certain items from the Army camp. They are now under \$100 bail awaiting next court session on Maui for trial.

On November 21 a reception and dinner honoring General Hull, Commanding General Mid-Pac, at Kilauea Military Camp, brought together many prominent citizens of Hilo, and was attended by the Superintendent and Mrs. Oberhansley. The following day the General and his staff visited with various members of the park staff in this office for a friendly discussion of mutual problems.

On November 23 ex-Post Master General James A. Farley was welcomed to the park for several days stay.

The Superintendent accepted an invitation to join the Hilo Rotary Club.

Audit

Field Auditor Marlon Glenn arrived in the park on November 10 and has since been busy with the long-deferred audit of CCC accounts. His advice on fiscal matters has been particularly valuable to the Chief Clerk, Superintendent and other staff members. He was taken on the first leg of a round-the-island trip on November 30 in connection with other official duty.

Miscellaneous

A Mr. Griffith called at this office to determine what our attitude would be toward his proposal to seek a liquor license for his cabin development near the Hilo entrance to the park. He is investing \$90,000 in developing 18 modern motel-type structures with 36 units which will provide kitchenette, bath and combination living and bedroom. He was not encouraged on the liquor question but his accommodations will serve a real need.

RECEIVED AS FOLLOWS

Research and Observation

Earthquakes of Mauna Loa origin predominated in November. Sixty shakes were recorded on the Mauna Loa seismograph and 54 at Kilauea. The only perceptible shake occurred at 1:54 A.M. November 30. It originated deep under the eastern slope of Mauna Loa and was widely felt over the eastern half of Hawaii. There was no tilt in the east-west direction and a slight accumulation of southerly tilt during the month. There was practically no movement at any of the measured cracks around Halemauau or along the Chain of Craters Road.

A criticism of Granton's lengthy article "Conjectures Regarding Volcanic Heat" was compiled by the Volcanologist and made ready for typing. Four days were spent on a trip to Hualalai.

As time permitted, Dr. H. A. Powers worked on tilt records; he gave three lectures on the seismograph; also spent some time preparatory to rigging a seismograph to give us a warning of the occurrence of earthquakes that might cause tidal waves.

Ranger Service.

Frank A. Hjort assumed his duties as Chief Ranger at Kilauea section November 17. Ranger James C. Lindsay entered on duty November 22 at Haleakala after a week of orientation and indoctrination at headquarters. Park Warden McCall of the Haleakala section spent four days at headquarters. Ranger Medeiros was detailed to trail maintenance and other duties at Haleakala during the month. Selected candidates James W. Brower and Harold E. Booth were recommended for ranger vacancies CPC-8 and CPC-7 respectively. In view of the fact that they are unmarried, it is proposed that they be assigned to Haleakala and occupy the existing ranger station jointly.

The ranger division continued to help out in maintenance work. Several telephone poles were replaced during the month at Kipuka Ki and along the Mauna Loa truck trail. Water shortage at the Kipuka Nene made it necessary to haul water for the horses used on goat drives. Several days were spent shoeing mules and horses for goat work and also in repairing and oiling rigging. Three talks were given by Ranger Davis during the month in connection with the naturalist program. Several parties were taken on ranger patrols to Chain of Craters area and also Bird Park. Two-day travel count was made routine patrols performed throughout the park.

Forest Protection

At Kilauea section 71 goats were removed from the park through a drive, and 36 more goats and 2 pigs were destroyed. At Haleakala 4 goats were eliminated.

Fire Protection

One fire drill was held and routine inspections made of fire equipment. Assistant to the Superintendent Moonaw, Ranger Davis and Chief Ranger Hjort tested and learned how to use the foam attachment on the fire truck.

RECEIVED AS FOLLOWS

Flora and Insects

Ranger Davis reports that the Chinese Thrush was observed in the park on November 21 and several times since that date. Also a new exotic plant, the Apple of Bodon (*Solanum sodonsum*) was observed near the Mauna Loa truck trail above Kipuka Ki.

The newly discovered fruit fly pest (*Dacus dorsalis*) in Hawaii was found to be abundant in the park up to an elevation of 4200 ft. At 5500 ft. only one adult was trapped and none at 6500 ft. It is believed that this pest may be attacking the native ohelo berry.

Ranger Davis spent several nights working on the check list of insects of Hawaii National Park and preparing material for shipment and identification.

Maintenance

Considerable maintenance work was done on a number of employees' quarters, in addition to routine maintenance of park telephones and calls. Water tank at Quarters #8 was repaired; stove and electric wiring system at Quarters #27-1 was given a complete overhaul, and refrigerators in Quarters #1 and #2 were repaired and adjusted. Sink drains and floor drains in Quarters #17 and 19 were cleaned out. Routine maintenance of public comfort stations, roadside cleanup and janitor work of headquarters building and Observatory-Naturalist building took considerable time. It was necessary to operate the crusher the entire month in order to build up a stock pile for immediate road work. Grading operations and ditch cleaning were completed on Mauna Loa truck trail. Complete inventory of all rolling stock was taken.

Park Naturalist Activities

The Park Naturalist was on annual leave from the 1st to the 17th of the month. The remainder of the month was spent mainly in the office catching up on official correspondence, cataloging, filing and reports.

At Kilauea 20 illustrated lectures were given in the park, with an attendance of 359; 13 conducted trips with an attendance of 113.

The Park Naturalist assisted Mr. Griffin, RKO Pathe Photographer, in taking some scenes in the park for the documentary film "Hawaii, Forty Ninth State".

New Construction

Most of the month was spent by the Assistant to the Superintendent on the revision of the P.C.P. and preparation of new priority lists. This operation took considerable time because this work had been almost untouched from November 1941 to the arrival of Messrs. Crowley, DeLong and Hill from Region Four. Many revisions of the job sheets are still necessary due to material and labor increases and the lack of the CCC. These will be brought up to date from time to time in the future.

RECEIVED AS FOLLOWS

Cooperating Government Agencies

Great assistance was received from Mr. Wendle C. Rice, Construction Supt. Grand Coulee Dam, Washington, and Mr. John Farquhar of Procurement Section of Bureau of Reclamation Washington office, on the surplus property inspection and proposed acquisition for the Department.

Mr. Passa, Territorial Dept. of Public Works, and Mr. Johnson, Engineer HRA Office Honolulu, had a conference with the Assistant to the Superintendent regarding the overloading of trucks, and particularly those of the Yamada Transfer Company, traversing the Hualahoe Highway between Hilo and the Kan district. All possible cooperation was promised these gentlemen in this matter but it was pointed out that our activities are greatly limited due to the lack of weight limitation legislation or regulations covering the section of this highway through the park. We can, however, limit the size of vehicles that cross this road.

Travel

At the Kilauea section there were 23,390 visitors of which 5,953 were in the armed forces, and at Haleakala these figures were 1,562 of which 119 were in the armed forces.

Visitors:

General J. E. Hull, Commanding General, Mid-Pac,
Senator E. E. McFarland, Arizona
General Marsden, Commanding General G-4,
ex-Fort Master General James A. Farley,
Mr. Rufford Mohley, Chief Washington Bureau, Honolulu-Star-Bulletin
Mr. Vern Hinkley, Managing Editor, Honolulu Star-Bulletin.

(SGD) F. R. OBERHANSLEY

Frank R. Oberhansley,
Superintendent.

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

December 3, 1946.

MEMORANDUM for the Superintendent.

Subject: Asst. to Supt's monthly report for November, 1946.

Special Activities

November 4-6 in Honolulu to represent the Service at the allocation of surplus equipment but, due to the over-all condition of equipment and other property remaining after the Veteran selection of "set aside" items, all purchase orders were cancelled.

General Complaints

Several complaints (verbal) were received on the 8th, 9th, 10th and 13th regarding the sudden increase in beer prices at the Volcano House. Over night the price jumped from 25 to 40 cents per bottle. This matter was reported to the superintendent on his return from Kauai and Honolulu.

New Construction

Most of the month was spent on the revision of the P.C.P. and preparation of new priority lists. This operation took considerable time because this work had been almost untouched from November 1941 to the arrival of Messrs. Crowley, DeLong and Hill from Region Four. Many revisions of job sheets are still necessary due to material and labor increases and the lack of the CCC. These will be brought up to date from time to time in the future.

This material was mailed to Region 4 via air mail the 22nd.

Concessioners

See complaints.

Cooperating Governmental Agencies

1. Great assistance was received from Messrs. Wendle C. Rice, Construction Supt. Grand Coulee Dam, Washington, and John Farquhar, from Procurement Section Bureau of Reclamation Washington Office, on the surplus property inspection and proposed acquisition for the Department.

2. Mr. Paawa, Territorial Dept. of Public Works, and Mr. Johnson, Engineer FRA Office Honolulu, had a conference with the Assistant to Supt. regarding the overloading of trucks, and particularly those of the Yamada Transfer Company, while traversing the Mamalahoa Highway between Hilo and the Kau district.

All possible cooperation was promised these gentlemen regarding this

matter but it was pointed out that our activities are greatly limited due to the lack of weight limitation legislation or regulations regarding the section of this highway through the park, however we can limit size of vehicles that cross this road.

Visitors

Mr. Wendle C. Rice, Construction Supt. Grand Coulee Dam, Washington, spent week-end of November 9-10 in the park.

Building Fire Protection

Attended fire drill on the 20th.

B. F. Moomaw

B. F. Moomaw,
Asst. to Supt.

Nov 17

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

December 5, 1946.

MEMORANDUM to the Superintendent.

Subject: Chief Ranger's monthly report for November, 1946.

The following report of the activities of the Ranger Division is respectfully submitted.

Since no one on Maui has been trained to submit a report from that section this report will include the items from there, with the exception of the weather report for Haleakala which has not been received.

Maintenance. Several telephone poles were replaced during the month at Kipuka Ki and along Mauna Loa truck trail.

Water shortage at the Kipuka Nene made it necessary to haul water for the horses used on goat drives.

Several days were spent shoeing mules and horses for goat work and also in repairing and oiling rigging.

At Haleakala a great deal of time was spent by Ranger A. B. Medeiros and laborer George Pires in maintenance work on Halemau-u trail. The horse corral at the ranger station was repaired.

A heating plant was installed at the Ranger Station by Messrs. Quick, Lindsay and Hjort, who made a trip to Maui especially to accomplish this work.

Interpretive Work and Guide Service. Three talks were given by Ranger Davis during the month in connection with the Naturalist program. Several parties were taken on Ranger patrols to Chain of Craters area and also Bird Park.

Research. Ranger Davis spent several evenings working on the check list of insects of Hawaii National Park and in preparing material for shipment and identification.

Donations. Miss M. Cooke of 29 Miles donated a book Natural History of Hawaii by W. A. Bryan.

Flora and Fauna. Ranger Davis reports that the Chinese Thrush was observed in the park on November 21 and several since that date.

The Apple of Sodom (Solanum sodomaeum), a new exotic plant, was observed near the Mauna Loa truck trail above Kipuka Ki.

On Haleakala the hunters below the park report the poorest pheasant hunting

in years. Pheasants in the park seem to be in normal numbers.

Also reported by Ranger Davis was a new fruit fly pest, Dacus dorsalis, found at an elevation of 4200 ft.

Protection. Routine patrols were made throughout the park during the month. One fire drill was held and routine inspections made of fire equipment. Assistant to the Superintendent Moomaw, Ranger Davis and Chief Ranger Hjort tested and learned how to use the foam attachment on the fire truck.

A number of visitors were warned on minor infractions of the rules here and at Haleakala.

At Haleakala Park Warden McCall assumed the responsibility of all patrols and contact duty at the summit when Ranger Medeiros took over maintenance work.

71 Goats were removed from Kilauea section by the contractors this month. 36 more and 2 pigs were destroyed. At Haleakala four goats were destroyed. Goats in that section are increasing rapidly and will have to be controlled before they get out of hand.

Miscellaneous. Ranger James C. Lindsay entered on duty in the Haleakala section after spending a few days in the Kilauea section.

Park Warden McCall spent four days at Kilauea this month.

Planning. The following work is planned for next month and appears on Ranger Schedule:

- (1) Removing names from Keanakakoi Crater and below Uwekahuna.
- (2) Repairing short foot trail from road to Makaopuki Crater
- (3) Brushing out of part of the Kilauea Iki trail.

Frank A. Hjort
Frank A. Hjort,
Chief Park Ranger.

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

December 4, 1946.

MEMORANDUM for the Superintendent.

Report of Hawaiian Volcano Observatory for November, 1946.

Earthquakes of Mauna Loa origin predominated in November. Sixty shakes were recorded on the Mauna Loa seismograph and 54 at Kilauea. The only perceptible shake occurred at 1:54 A.M. November 30. It originated deep under the eastern slope of Mauna Loa and was widely felt over the eastern half of Hawaii.

There was no tilt in the east-west direction and a slight accumulation of southerly tilt during the month.

There was practically no movement at any of the measured cracks around Halemaumau or along the Chain of Craters Road.

A criticism of Graton's lengthy article "Conjectures Regarding Volcanic Heat" was compiled and made ready for typing. Four days were spent on a trip to Hualalai.

As time permitted, Dr. H. A. Powers worked on tilt records; he gave three lectures on the seismograph. Some time was spent preparatory to rigging a seismograph to give us a warning of the occurrence of earthquakes that might cause tidal waves.

Most of Mr. Burton J. Loucks' time not spent in routine was taken up by installing a small lathe and work on a teleseismannunciator.

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

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

December 4, 1946.

MEMORANDUM for the Superintendent, H.N.P.

Subject: Report of Foreman Const-Maint. month November 1946

201. Repairs were made to basement steps Quarters #18. Installed guard rails on basement steps Qtrs. #16. Installed new clothes line and poles at Qtrs. #22. Installed sink in old foreman's quarters at CCC Camp to be used as temporary quarters by the Abe family.
207. Routine maintenance to grounds around headquarters, superintendent's house, single girls' quarters, and public camp ground. Cut grass around Qtrs. #13.
208. Repaired floor plug circuit superintendent's quarters.
209. Routine maintenance of park phones and calls.
211. Cleaned sink drain and floor drains Quarters 17 and 19.
212. Repaired water tank Quarters #6.
217. Routine maintenance of passenger carrying vehicles.
218. Routine maintenance of public comfort stations, roadside cleanup and janitor work of headquarters building and Observatory-Naturalist Building.
307. Repaired stove and electrical system Qtrs. 27-1. Routine garbage disposal and kerosene delivery; repaired refrigerators Qtrs. 1 and 2.
502. Entire month was spent in operating the crusher due to unobtainability of materials (bitumuls) with which to patch. Some shoulder dressing was accomplished on section 3-B Mamalahoa highway.
- 502.1 Grading operations and ditch cleaning was completed on Mauna Loa truck trails.
- Special activities of the undersigned: (1) Complete inventory of all rolling stock was taken. (2) Assistaed in installation of a hot water heating system in the ranger's quarters at Haleakala section.
- Surplus Property- Various items of equipment and supplies were received during the month. All items were reported under separate cover.


Herbert J. Quick,
Foreman C-M.

December 4, 1946.

MEMORANDUM for the Superintendent, H.N.P.

Subject: Report of Foreman Const-Maint. month November 1946

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 - 502.1 Grading operations and ditch cleaning was completed on Mauna Loa truck trails.
- Special activities of the undersigned: (1) Complete inventory of all rolling stock was taken. (2) Assisted in installation of a hot water heating system in the ranger's quarters at Haleakala section.
- Surplus Property- Various items of equipment and supplies were received during the month. All items were reported under separate cover.

Herbert J. Quick,
Foreman C-M.

December 2, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Monthly Narrative Report for November, 1946.

Maintenance

- (a) Replacing telephone posts and repairing line at Kipuka Ki.
- (b) Replacing telephone posts and repairing line near fire cache #2, Mauna Loa Truck Trail.
- (c) Hauling water to park horses at Kipuka Nene and watering same.
- (d) Helping Ranger Hauanio prepare horses and mules for goat drives.
- (e) Obtaining soil at Kipuka Ki for park nursery.

Interpretive

<u>Talks</u>	<u>Number</u>	<u>Attend</u>	<u>Duration</u>
Observatory	3	70	2 1/2 hrs.

Research

Several nights were spent working on the check list of insects of Hawaii National Park and preparing material for shipment and identification.

No propagation was done in connection with the rare tree project during the past month. Stock on hand was dusted, weeded and watered.

Protection

Seventy one goats were removed and three eliminated by the contractor on November 13th.

Frequent patrols were made and visitors were requested not to pick ohelo berries within 150 yards of the road. Visitors were also requested not to picnic on the Crater Rim Road areas.

RECEIVED AS FOLLOWS

The fire engine was checked frequently and some irregularities have been corrected. A drill was held on November 20th at the CCC Camp with Chief Ranger Hjort, Assistant Supt. Moomaw, Ranger Hauanio and the undersigned participating.

One trip was made into the forest near Kipuka Puauulu for the purpose of observing forest insect conditions.

The above pictures show the condition of the north fence line of the horse paddock. This is only one of several sections of fence line that is down. Our paddock is to the right and Shipman's to the left. The impact of cattle grazing is rather sharply shown on the left side of the fence. On the day that these pictures were taken a dead cow was found in our paddock.

It is believed that the Shipman Ranch is responsible for the maintenance of this fence line.

RECEIVED AS FOLLOWS

Miscellaneous and Observations

A carton of Kokia cookei (native red cotton) seed was shipped to this office by Mrs. Sophie Cooke of Molokai. This tree is endemic to that Island and is exceedingly rare. Another species formerly grew on Oahu but, due to the ravages of cattle has long since become extinct. From a previous shipment of seed sent by Mrs. Cooke many seedlings were propagated at the Nursery and distributed to interested people in the 29 mile area.

A donation of a book, Natural History of Hawaii by W. A Bryan was made to the Natural History Association by Miss M. Cook of 29 miles.

The reappearance of the Chinese thrush (Trochaloxyrum canorum L) in the park was observed on November 21st. Several have been seen since that date.

An apple of sodom (Solanum sodomsum) plant was observed near the Mauna Loa Truck Trail above Kipuka Ki on November 23d. This is a new exotic plant record for the park.

Dacus dorsalis, the newly discovered fruit fly pest in Hawaii was found to be abundant in the park up to an elevation of 4200'. At 5500' only one adult was trapped and none at 6500'. It is believed that this pest may be attacking the native ohelo berry.

Respectfully submitted,

Clifton J. Davis,
Park Ranger.

RECEIVED AS FOLLOWS

December 5, 1946.

MEMORANDUM to the Superintendent.

Subject: Chief Ranger's monthly report for November, 1946.

The following report of the activities of the Ranger Division is respectfully submitted.

Since no one on Maui has been trained to submit a report from that section this report will include the items from there, with the exception of the weather report for Haleakala which has not been received.

Maintenance. Several telephone poles were replaced during the month at Kipuka Ki and along Mauna Loa truck trail.

Water shortage at the Kipuka Hene made it necessary to haul water for the horses used on goat drives.

Several days were spent shoeing mules and horses for goat work and also in repairing and oiling rigging.

At Haleakala a great deal of time was spent by Ranger A. B. Medeiros and laborer George Pires in maintenance work on Halemau-u trail. The horse corral at the ranger station was repaired.

A heating plant was installed at the Ranger Station by Messrs. Quick, Lindsay and Hjort, who made a trip to Maui especially to accomplish this work.

Interpretive Work and Guide Service. Three talks were given by Ranger Davis during the month in connection with its Naturalist program. Several parties were taken on Ranger patrols to Chain of Craters area and also Bird Park.

Research. Ranger Davis spent several evenings working on the check list of insects of Hawaii National Park and in preparing material for shipment and identification.

Donations. Miss M. Cooke of 29 Miles donated a book Natural History of Hawaii by W. A. Bryan.

Flora and Fauna. Ranger Davis reports that the Chinese Thrush was observed in the park on November 21 and several since that date.

The Apple of Sodom (Solanum sodomaeum), a new exotic plant, was observed near the Mauna Loa truck trail above Kipuka Ki.

On Haleakala the hunters below the park report the poorest pheasant hunting

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in years. Pheasants in the park seem to be in normal numbers.

Also reported by Ranger Davis was a new fruit fly pest, Deona dorsalis, found at an elevation of 4200 ft.

Protection. Routine patrols were made throughout the park during the month. One fire drill was held and routine inspections made of fire equipment. Assistant to the Superintendent Moomay, Ranger Davis and Chief Ranger Hjort tested and learned how to use the foam attachment on the fire truck.

A number of visitors were warned on minor infractions of the rules here and at Haleakala.

At Haleakala Park Warden McCall assumed the responsibility of all patrols and contact duty at the summit when Ranger Medeiros took over maintenance work.

71 Goats were removed from Kilauea section by the contractors this month. 36 more and 2 pigs were destroyed. At Haleakala four goats were destroyed. Goats in that section are increasing rapidly and will have to be controlled before they get out of hand.

Miscellaneous. Ranger James C. Lindsay entered on duty in the Haleakala section after spending a few days in the Kilauea section.

Park Warden McCall spent four days at Kilauea this month.

Planning. The following work is planned for next month and appears on Ranger Schedule:

- (1) Removing names from Keanakakoi Crater and below Uwekahuna.
- (2) Repairing short foot trail from road to Makapuuiki Crater
- (3) Brushing out of part of the Kilauea Iki trail.

Frank A. Hjort,
Chief Park Ranger.

RECEIVED AS FOLLOWS

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			November
	Interpretive	Administrative	Other	Month
Permanent	1	1	2	1946
Temporary				Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	12	50	3 hrs.
Walks or Hikes	1	62	5 hrs.
Ruins or Hist. House			
Other			
Total	13	112	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	9	320	1 hr.
Orientation (Not connected with conducted trip)	11	39	1/4 hr.
Other (Not connected with conducted trip)			
Total	20	359	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
(Give Name or Type) Total			

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	30	2,500	
Kipuka Puauili " "	30	1,250	
Tree Molds " "	30	250	
Observatory	24	1,250	
Silversword Trail	30	400	
(Give Name or Type) Total	144	5,650	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks			
Displays and Exhibits			
Replies to Inquiries			
Other			

6,121
Total Receiving Interp. Serv.
24,942
Total Number Visitors to Area

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

NAME Gleanna O. Fogelard
TITLE Park Naturalist

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

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

RECEIVED AS FOLLOWS

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 OVERLOOKS, 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

10-23
(May 1923)

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

FILE NO.

Superintendent's Monthly Narrative Report

October, 1946

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

Summary of October 1946 5-page Monthly Narrative Report for
Hawaii National Park

Superintendent's Activities, p. 1.- Visit of Messrs. Crowley, DeLong and Hill; inspection trips made to all parts of the park and to Haleakala for them. Entire program of roads and trails, water systems, buildings and rehabilitation program reviewed with them.

Weather, p. 1.- Precipitation at Kilauea 14.15" and at Haleakala 5.15". Maximum and minimum temperatures at Kilauea were 77 and 51; at Haleakala ranger station 69 and 59.

Research & Observation, p. 1.- During October there were 49 earthquakes at Kilauea and 89 at Mauna Loa.

Administrative Work, p. 2.- Inspection made with Territorial Land Commissioner of prison site in Kulani forest; Highway Engineer Carlson of FRA spent several days in the park to discuss roads and trails problems and made an inspection on the ground in company with the superintendent and visiting officials from Region Four.

Maintenance, p. 3.- Considerable road patching accomplished; grading and cleaning of ditches, automotive equipment overhauled.

Ranger Service, p. 4.- Party of hikers got lost in the coastal area necessitating an all-night search for them; usual routine work carried on by rangers.

Interpretation, p. 5.- Park Naturalist gave a series of lectures on the Island of Kauai which brought the number of lectures given outside the park to a total of 23, with a total of 4,360 people attending.

Travel, p. 5.- At Kilauea section there were 30,622 visitors of which 6,131 were in the armed forces, and at Haleakala these figures were 1,468 and 257.

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

November 25, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of October, 1946:

Superintendent's Activities

The Superintendent was on duty all month. October 5 Messrs. Crowley, DeLong and Hill arrived from the Regional Office to remain with us until early in November to assist with our long-range planning program. They were conducted over the park at various times and perhaps gained more accurate knowledge of the park than previous official visitors have been able to do. October 14-17 was devoted to an inspection of the Haleakala section, including a trip into the crater. In addition to seeing the various sections of the Kilauea section, including the Kalapana extension and sea coast areas, arrangements were made for an early reconnaissance of both sections of the park by Navy plane. The entire program of roads and trails, water system, buildings, and rehabilitation program was reviewed. The presence of these Region Four officials has been of untold value to the park organization and will doubtless result in a concrete program of development that has been seriously lacking for the past many years. The evening of October 8 the Superintendent gave a talk at the regular meeting of the Hilo Lions Club, with 90 persons attending. October 29 he also gave an illustrated lecture on National Parks before a mixed group of approximately 200 at the Hilo Gymnasium.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 77° and 51°. At Haleakala ranger station these recordings were 69 and 39. Total rainfall at Kilauea was 14.15" and at Haleakala 3.15". The protracted drought of September was broken when copious rains fell during the early part of October, making it possible for us to supply surplus water to the park operator's storage facilities on an emergency basis. To date approximately 180,000 gals. have been pumped into his tanks.

Research and Observation

During the month of October 49 earthquakes were recorded at Kilauea and 59 at Mauna Loa. One quake originated deep under the coast line of Hualalai. It was felt in northwestern Hawaii and on Maui. A shake at 18:45 Oct. 29 originated deep under the east slope of Mauna Loa and was widely felt on this island. Both components of the Mauna Loa seismograph were dismantled. The Oct. 20 shake, coupled with those of September 2 and 4, may be taken as a slight indication of increase of uneasiness of Mauna Loa. A greater than normal easterly tilt during October is probably a further indication of such uneasiness. Northerly tilt was normal.

A few of the cracks around Halemauau opened slightly. There was no

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measured movement of the cracks along the Chain of Craters Road.

An article entitled "The Fuma Rift of Kilauea" was completed for the Volcano Letter and sent to the publisher. Volcanologist Finch and Dr. Powers prepared material for and attended the hearings on the sea wall and harbor of Hilo. One day was spent in the field to make observations on the Fuma Rift. Routine seismology occupied most of the time of Dr. Powers. He finished the statistical portion of the Volcano Letter and gave three talks on the theory and operation of the seismograph. The principal jobs of Instrument Maker Loucks in addition to assisting in Observatory routine consisted in making a part for a floor jack for Foreman Quick, repairing and installing a mechanical clock for the Hilo seismograph, finishing and installing a portable tilt meter in the hotel seismograph vault, and making a seismograph drum drive and carriage.

Administrative Work

On October 8 the Superintendent and Volcanologist met with Messrs. Lester Marks, Territorial Land Commissioner, Thomas Van de, Director Territorial Institutions, Eric Beecroft, Assistant to Secretary of the Interior, and others, and proceeded to the site of the prison camp in the Kulanui Forest to inspect the development of this site. It is unfortunate that the finest remaining koa forests in the islands have been invaded for the purpose of establishing prison camps. This is particularly true in view of the lack of planning and the haphazard method of penetrating one of the few remaining virgin areas outside of Hawaii National Park. The road over a distance of 15 miles was built in a hit-or-miss fashion; sections were bulldozed through the forest only to be abandoned when an easier route was decided upon, with the result there are gaping holes in the forest that will serve no useful purpose. Foresters in general deplore the lack of planning in connection with this project.

On October 9 Commissioner Marks, Mr. Beecroft and the Region Four officials were conducted to points of major interest along the highway in the park, including an outside trip to the Hiline Pali section; also the Kauna Loa strip to the end of the truck trail was inspected.

Highway Engineer Frank R. Carlson, of the P.R.A., arrived in the park on October 20 to discuss our roads and trails problems and to make an inspection on the ground in company with the park staff and regional officials. On the same day Messrs. Murray and Watson of the C.A.A. and Mr. Sinclair, Territorial Air Port Engineer, visited the Superintendent's office in connection with their investigations of sites for air ports in or adjacent to the park. They were, of course, discouraged from consideration of any sites within the park proper, in which Mr. Sinclair concurred most heartily.

On October 24-25 Geologist Powers and Volcanologist Finch and the Superintendent took part in the harbor hearings held in Hilo and submitted a statement prepared on a former occasion by Dr. Jagger on the subject of Lava Barriers.

Considerable time was devoted by Assistant to the Superintendent Mooker

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and Foreman Quick to surplus property in a continuing attempt to secure items of equipment requested by the Director's Office. Mr. Mooker spent approximately two weeks in Honolulu during October on that assignment.

Concessions

Applications for operating concessions at Haleakala from two interested people on Maui have been received - E. H. Rogers who wishes to have saddle horse concession, and John P. Sprinkle, who formerly operated as a packer out of Olancha, California, into the high country of Sequoia-Kings Canyon National Parks. The Maui Grand Hotel, Ltd. has also submitted request for renewal of their contract for the Haleakala concession, but in view of the fact that they have never attempted to carry on any business whatsoever under their contract, it seems desirable to award the contract to some one who is really interested in operating the concession there, particularly the saddle horse for which there is a real demand. It is planned to interview these various applicants on Maui in the near future personally, at which time we will submit recommendations.

Maintenance

The maintenance division put in a very active month, doing its share of telephone repairing of which there was plenty, working on reconditioning quarters, making alterations to fire house to adequately protect the new fire engine recently acquired; all gutters were cleaned and repaired; various sewer lines cleaned; roadside cleanup; routine maintenance of grounds around headquarters and public camp grounds; janitor work at Administration and Observatory buildings. Sedans Nos. 26, 27 and 29 were serviced. Pickup #41 was given a complete overhaul and as soon as it is painted we plan to ship it to Maui where it is badly needed; routine handling of garbage, wood and kerosene.

Road patching was carried out on Bird Park, Uwakahuna and Rim roads; the humps and cracks on the Chain of Craters road were leveled and filled but due to shortage of bitumals patching operations had to be shut down on the 14th of the month. Grading and cleaning of ditches was carried out on the Hilihi Pali and Mauna Loa truck trails, while the following trails were cleared, patched and repaired: Sandalwood, Byron's Lodge, Haleakalanu, Kilauea Iki and Foot Prints.

The Park Foreman spent several days in Hilo on surplus property. He assisted Engineer Crawley shoot levels to ascertain difference in elevation between park reservoir and tanks at CCC camp.

Cooperating Governmental Agencies

With the Army turning over to us during October a rock crushing plant in good condition to replace similar equipment which we loaned them during the war and which they wore out, the Army's obligation to the Park Service in the matter of loaned equipment has been fulfilled.

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Ranger Service

A telephone call was received by the Acting Chief Ranger at 9:00 P.M. of the 27th with the news that six or more members of the Hilo Camera Club were lost in the coastal section of the park and could not be found. Some 24 members of this club had motored over to that area and split into three groups to make separate trips, with the intention of rejoining their automobiles later in the afternoon. Sixteen of the party found their way out and returned to Hilo but the remainder were overtaken by darkness and kept the Superintendent and the Assistant, who knew the locality, out of their beds the rest of the night searching for the missing hikers. In the early dawn of the next morning the survivors wearily staggered into park headquarters, having walked 16 miles in the dark, and were taken to the Superintendent's house and afforded warm baths and a hot breakfast.

The ranger force spent considerable time on checking, clearing and repairing telephone lines. 20 poles were replaced and some which were down were put up, and sections of broken wire repaired. Tree trimming was necessitated along the Mamalahoa Highway for the protection of telephone wires; 2-day travel count was performed; routine patrols were made; a goat drive was participated in; a new gate installed at the Bird Park foot trail. Ranger Medeiros was detailed on October 5 to an indefinite tour of duty at the Haleakala section.

Forest Protection

At Kilauea section 97 goats were eliminated through a drive and at Haleakala 6 goats.

Fire Protection

The recently acquired fire engine was checked frequently throughout the month and is in good condition.

Insects and Rare Tree Projects

Experiments with 2, 4-D (Dichlorophenoxyacetic acid) are being held in abeyance until the weather is more favorable.

Eight cuttings of Charpentiera obovata (Papala) were set out at the Nursery on October 15. There are only two of these trees in Bird Park.

The wiliwili and halepoko plants at Hilina Pali are making good vegetative growth as a result of the recent rains in that area.

Several rare tree seedlings from the Park Nursery were distributed to Miss M. Cook of 29 miles. These included Koala cookii and Hibiscadelphus hualalaiensis. Plants previously given to another resident contiguous to the park are doing nicely in his garden.

Notes were made on forest insect conditions in Bird Park on October 15 and will be included in the Annual Forest Insect Report.

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Park Naturalist's Activities

The Park Naturalist was on duty in the park from October 1 through 18 and spent the period October 19-23 on a lecture tour on the Island of Kauai. The scheduled interpretive program remained unchanged from September.

At Kilauea 27 illustrated lectures were given in the park, with an attendance of 621; 17 conducted trips with attendance of 122.

The lecture interpretive tour on Kauai was sponsored by the Y.M.C.A. and greatly increased for the month the number of outside lectures. A total of 23 talks was given outside the park to a total of 4,260 people. Two of these programs were given by the Superintendent.

A cardinal was observed (probably Richmondia cardinalis (L)) was observed in front of the Observatory on October 23. This bird is rarely seen in the park according to Baldwin's check list.

Individual and group personnel pictures were taken for "Who's Who in Hawaii National Park", a series of biographical sketches published in The Honolulu Star-Bulletin. A 100-foot reel of the 1942 Kodachrome eruption movies was edited for Mr. William Albee, who will incorporate it in his travel movies of the Hawaiian Islands which he has been filming for the Hawaii Visitors Bureau.

Travel

At the Kilauea section there were 30,622 visitors of which 6,131 were in the armed forces, and at Haleakala these figures were 1,468 and 287.

Visitors:

Ex-Territorial Governor Walter F. Frear and wife,
Mrs. Roger Lapham, wife of Mayor of San Francisco,
Major Dietsch, C. O. General Lyman Field
Colonel Kruger,
Captain Averett
John Kenney, Assistant Secretary of Navy,
Admiral Richard Whitehead,
Admiral Doyle,
Commander N.H. Julian, C.O. Hilo Naval Air Station,
Lt. Jimmy Hartin,
Mr. Lester Marks, Land Commissioner for Territory,
Mr. Eric Beecroft, Assistant to Secretary of Interior,
Mr. Murray, C. A. A.
Mr. Watson,
Mr. Carl Sinclair, Territorial Airport Engineer,
Miss Betty Wade and Miss Elaine Cook, Grand Rapids,
Mr. & Mrs. McCormick of RKO Pictures, Inc.
Dr. Josiah Bridge, Chief Non-Metaliferrous Sec. Geological Survey, Washington,

Frank R. Oberholmsloy,
Superintendent.

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November 18, 1946

MEMORANDUM for the Superintendent.

Subject: Monthly Report

Asst. to Superintendent, Acting Chief Ranger and Acting Park Engineer.

Special Activities

The undersigned spent the month mostly on special activities as the following calendar illustrates:

1. Off Duty (Compensatory time)
- 2.-3. Rehabilitation and FF & FP. Estimates.
4. Hilo, on Surplus Property.
- 6.-11 Honolulu on Surplus Property.
- 14.-18 Honolulu on Surplus Property.
24. Safety Council Meeting at Kilauea Military Camp.
25. Hilo, Rivers and Harbors Hearing, USED, Manna Loa Lava Barriers.
- 27.-28 Man hunt, with Supt, for members of Hilo Camera Club, lost in Keauhou Coastal Section of Park.
29. Sick leave.

The other portions of the month were spent at Hq. on Surplus Property, POP Program aiding Messrs. Crowley, DeLong and Hill and on routine duties.

Inspections

The usual Protective and Maintenance inspections were made, as well as several other special inspections with the Regional Office team.

Concessioners

While on week-end duty through-out the month several inquiries were made by visitors regarding availability of soft drinks, sandwiches, coffee and photo supplies. The usual reply was to refer these people to the Volcano House, where only a limited supply of souvenirs and film may be procured, coffee and sandwiches are only procurable during meal hours and soft drinks are available across the bar at prices 100% above Hilo and near-by vendor rates.

The Volcano House management has repeatedly told the undersigned, since 1937, that they are not interested in this type of business, in view of this

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attitude of the Volcano House, and the demand for this business, it is believed that another concession, for a coffee shop, soda fountain, photo studio and souvenir stand should be considered in our future plans.

Cooperating Government Agencies

While working on surplus property in Honolulu close contact was maintained with Messrs. Rice and Farquhar of Reclamation who are handling the acquisition and inspection for the other Bureaus of the Department.

Ranger Service

See other Ranger reports.

The Acting Chief Ranger was called at about 9:00PM of the 27th by the Volcano House manager with the news that several members of the Hilo Camera Club were lost in the Coastal Section of the park, that one, Mrs. Charles Moses had a sprained ankle and was badly in need of help and six other members of the party were not to be located.

On reaching the Volcano House to get additional information Chief of Police Carlson of Hilo, a member of the party, came in quite excited and frightened about the whole affair, with the information, -(some of which proved to be wrong on later investigation) 1. The party of twenty-four split into three groups on reaching the top of the Hilina Fault after entering the area from the private lands of Keauhou, each group started for different destinations, Apua Point, Keauhou Landing, and Halape. 2. Nineteen members of the party were accounted for as follows, sixteen had come out, Mrs. Moses, who had sprained her ankle (age, late fifties and weight 170 lbs) and had tried to continue the trip, was down about a mile from the coast and that one of the other ladies and Mr. Stephen Ho were remaining with her, to help her out or wait until help could arrive. 3. The whereabouts of two other men and three ladies was unknown and 4. Two cars were left behind for the party in case they worked out during the night.

Since all available rangers were thoroughly exhausted from a two day goat drive ending that afternoon the Asst. to Supt. who knows that country and the Supt. prepared to go in at once, (time 10:00PM, 27th) after arranging to pick up the Park horses at Kipuka Nene at 6:00AM 28th. They reached the point where the cars were supposed to be parked at 11:30PM and found where they had turned around and left by another route, -- nothing but tracks were in evidence, so they returned to Hq. for some sleep and in preparation for the morning horse trip over another route, since nothing more could be done before dawn.

At about 5:30 the morning of 28th while making a check phone call to Hilo four members that were lost came into the Hq. area on foot after walking 16 miles after dark. Two of them stumbled into the Supt's home and the other two into the Volcano House.

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The phone call to Hilo disclosed that Mrs. Moses, the other lady, Mr. Ho (who was on the other end of the phone) and the last man unaccounted for, had arrived on top of the Fault at about 8:30, had taken the two automobiles and had arrived in Hilo around 10:30PM; abandoning the other four members to their own resources.

The four that came into Headquarters were thoroughly exhausted, due to thoughtlessness of the party and Mrs. Oberhansley did a thorough job in her measures to restore confidence and strength to the lady that came to her home.

The above is a typical example of the inability of the average residents of these islands to care for themselves away from a paved road or sidewalk, or when thrown on their own. Most of this party by-passed Park Headquarters when they started on this trip so that the official on duty would not stop those that he knew to be unfit for such a trip.

Police Protection

See other reports.

Wild Life etc.

See other reports.

Fire Protection

See other reports.

Insects

See other reports.

Benjamin F. Moczaw,
Asst. to Superintendent.

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

November 1, 1946

MEMORANDUM for the Superintendent.

Subject: Report of the Hawaiian Volcano Observatory for October.

The number of shakes recorded at Kilauea and Mauna Loa was 49 and 59 respectively. One earthquake originated deep under the coast line of Hualalai. It was felt in northwestern Hawaii and on Maui. The shake at 18:43 on October 29 originated deep under the east slope of Mauna Loa and was widely felt on this island. Both components of the Mauna Loa seismograph were dismantled.

The October 29th shake coupled with those of September 2 and 4 may be taken as a slight indication of increase of uneasiness of Mauna Loa. A greater than normal easterly tilt during October is probably a further indication of such uneasiness. Northerly tilt was normal.

A few of the cracks around Halemaumau opened slightly. There was no measured movement of the cracks along the Chain of Craters Road.

An article entitled "The Puna Rift of Kilauea" was completed for the Volcano Letter and sent to the publisher. The writer and Dr. Powers prepared material for and attended the hearings on the sea wall and harbor of Hilo. One day was spent in the field to make observations on the Puna Rift.

Routine seismology occupied most of the time of Dr. H. A. Powers. He finished the statistical portion of the Volcano Letter. He gave 3 talks on the theory and operation of the seismograph.

The principal jobs of Mr. Loucks in addition to assisting in Observatory routine were: making a part for a floor jack for Foreman Quick, repairing and installing a mechanical clock for the Hilo seismograph, finishing and installing a portable tilt meter in the Hotel seismograph vault, and making a seismograph drum drive and carriage. He was absent 2 days on sick leave.

RH Finch

Ray H. Finch,
Volcanologist.

November 15, 1946.

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report.

201.

1. Painted furniture and hung window shades qtrs. #5.
2. Cut new door in fire house so the new fire engine could be put under cover.
3. Installed clothes lines qtrs. #2 & 18. This work was accomplished by the undersigned on Saturday and Sunday.
4. Constructed shelving and bins in storehouse.

207. Routine maintenance of grounds around headquarters and public camp grounds.

209.

1. Repaired phone Finch's residence.
2. Repaired Hilo phone qtrs. #17.
3. Repaired Hilo line which was torn down by heavy equipment moving through park.
4. Built phone box for Hilo Entrance phone.
5. Repaired phones qtrs. #1 and 2.

211.

1. Cleaned sewer lines qtrs. #9.

212.

1. Cleaned and repaired all gutters.
2. Pumped water to Volcano House.

218.

1. Janitor work administration and observatory buildings.
2. Roadside cleanup.

217. Serviced sedans #26, 27 and 29.

104.

1. Pickup #41 has been given a complete overhaul and as soon as it is painted will be ready for shipment to Maui.
2. Cleaned chimney qtrs. #16.

307. Routine hauling of garbage and kerosene delivery.

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502.

1. Patching of the following roads was carried out. Bird Park, Uwekahuna and Rim Road.

2. The humps and cracks on the Chain of Craters road were leveled and filled but due to the shortage of bitumals patching operations had to be shut down on the 14th of the month.

502.4

1. Grading and cleaning of drainage ditches was carried out on the Hilina Pali and Mauna Loa truck trails.

506. Cleared, patched and repaired the following trails: Sandalwood, Byron's ledge, Halemaunau, Kilauea Iki and Foot Prints.

Miscellaneous.

1. Eight days of annual leave was granted during month.

Special Activities of Foreman.

1. Several days were spent in Hilo on Surplus Property.

2. Assisted Engineer Crowley shoot levels to ascertain difference in elevation between park reservoir and tanks at C.C.O. Camp.

3. The park received the rock crushing plant which was transferred to the park to replace equipment worn out by the army during the war. With the receipt of this item the Army's obligation to the Park Service has been fulfilled.

Herbert J. Quick
Herbert J. Quick,
Foreman O & M.

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

November 2, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Monthly Narrative Report for October, 1946.

Maintenance

- (a) Hauling water for horses at Kipuka Nene.
- (b) Repairing telephone line at Makaopuhi and Camp Namakani Paio. Cutting Ohia branches from telephone line between Namakani Paio and the Kau Entrance. Checking telephone line between Kipuka Nene and Hilina Pali.
- (c) Repairing propagating bench at Park Nursery.

Interpretation

<u>Talks</u>	<u>Number</u>	<u>Attend</u>	<u>Duration</u>
Observatory	3	92	2 hr. 45 min.

Research (Rare tree project)

Experiments with 2, 4-D (Dichlorophenoxyacetic acid) are being held in abeyance until the weather is more favorable.

Eight Fagaria dipetala var. geminicarpa (Ae) seedlings were set out in Kipuka Puauulu on October 9th. They were all in good condition when last checked.

Eight cuttings of Charpentiera obovata (Papala) were set out at the Nursery on October 16th. There are only two ^{of these} trees left in Bird Park.

The wiliwili and halapepe plants at Hilina Pali are making good vegetative growth as a result of the recent rains in that area.

Protection

Frequent patrols were made and several visitors were warned about picnicking in unauthorized areas and driving off the park roads.

✓ Ninety nine goats were removed in the recent goat drive at Hilina Pali. The pig trap near Puhimau was checked several times and no pigs were found there.

✓ The fire engine was checked frequently throughout the month and is in good operating condition. The lights, however, do not work and the outer left rear tire has a leak. Recommend that Foreman Quick take remedial measures.

Notes were made on forest insect conditions in Bird Park on October 15 and will be included in the Annual Forest Insect Report.

Observations
Miscellaneous

A Cardinal (probably Richmondia cardinalis (L)) was observed in front of the Observatory on October 22, 1946 by Mr. Finch and the undersigned. This bird is rarely seen in the Park according to Baldwin's check list.

✓ Several rare tree seedlings from the Park Nursery were distributed to Miss M. Cook of 29 miles on October 1st. These included Kokia cooki and Hibiscadelphus hualalaiensis. Plants previously given to Mr. Eugene Harner are doing very nicely at his residence.

A total of 178 visitors registered at the picnic grounds during the month.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Park Ranger.

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

November 21, 1946

MEMORANDUM for the Superintendent.

Following is the Park Naturalist's monthly report for October, 1946, to which is attached the Statistical Report of Interpretive Services.

General

The Park Naturalist was on duty in the Park from October 1 through October 18 and spent the period of October 19 to 28 inclusive on a lecture tour on the Island of Kauai. From October 29 through the end of the month was spent on annual leave.

Interpretation

The scheduled interpretive program remained unchanged from September. The lecture tour to the Island of Kauai was sponsored by the Y.M.C.A. and greatly increased for the month the number of outside lectures. A total of 23 talks were given outside the Park to a total of 4,260 people. Two of these programs were given by Superintendent Oberhansley.

Natural History Association Activities

Dr. G. A. MacDonald reported that progress was being made on the guide map which his draftsman is preparing for the association.

Photographic and other Visual Aids

Individual and group personnel pictures were taken for an ~~in~~ "Who's Who in Hawaii National Park", a series of biographical sketches published in The Honolulu Star Bulletin.

A 100-foot reel of the 1942 Kodachrome eruption movies was edited for Mr. Wm. Albee, who will incorporate it in his travel movies of the Hawaiian Islands which he has been filming for the Hawaii Visitors Bureau.

Some items of photographic equipment were received.

Important and Influential Visitors

{ Mr. & Mrs. McCormick of RKO Pictures, Inc.
General Nowland and Mrs. Nowland, *Richard Field*

Proposed Naturalist Activities for November.

November 1 to 17 inclusive - annual leave. The remainder of the month will be spent on correspondence, reports, interpretation. Some time will be spent on assisting Chief Ranger Hjort in a sign survey of the Park.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Park Naturalist.

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

November 1, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Report of Activities for the month of October 1946.

Kilauea Section: - Considerable amount of time was spent on checking, clearing, and repairing telephone lines #9, #10, and #11. Along the line #11 from Kilauea Iki trail entrance to Makaopuhi, about 20 poles were replaced, and some which were down were put up. A few sections of broken wires were repaired.

The Hilina Pali line was also checked upon and some repairs were done. Tree limbs over hanging on line #10 wires along the Mamalahoa Highway were trimmed off. Along the Namakanioapao and Bird Park, 1 pole was replaced.

A telephone box was installed at the Hilo Entrance. Performed 1 travel count at the Hilo Entrance. Week-end duty, attending the switch board and also patrols were performed. Patrols made, covering the Lava Tube, Chain of Craters, Halemauau, Mamalahoa Highway, Bird Park, and a section of fire Kipuka.

A new gate was installed at the Bird Park foot trail entrance, also some fence repairs were done. Some time was spent shoeing some park horses to be used on a goat drive. Between the Bird Park and fire Kipuka areas, 3 pigs were destroyed. These were first noticed inside of Bird Park. 3 pigs were destroyed around the Koolau and Makaopuhi areas. All jobs above performed was accompanied by Ranger Hauanio Jr. and also Ranger Davis.

On October 25, 1946, I reported for duty on the Haleakala Section. Duties performed were patrol, travel count, Halemau Trail, checkup and also did a little cleaning around some buildings.

Antone B. Medeiros,
Ranger.

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

November 6, 1946

MEMORANDUM to the Superintendent Frank R. Oberhansley.

The following monthly narrative report for the month of October, 1946 is respectfully submitted:

Weather Conditions in the Park.

Winds of fifty miles per hour accompanied by misty clouds at the Ranger Station and sleet at the Summit have made the latter part of this month rather nasty.

Maximum temperature ----- 69 degrees on the 24th.
Minimum temperature ----- 39 degrees on the 1st, 3rd, 4th, and 6th.
Rainfall total ----- 3.15 inches
Clear days ----- 13
Partly cloudy days ----- 6
Cloudy days ----- 12

Inspections

Messrs. Hill, DeLong, Crowley, and Oberhansley visited this section of the park to discuss future plans for buildings, maintenance etc. Mr. Frank R. Carlson of Public Roads Administration was contacted in Wailuku by the above mentioned men to discuss the park road.

A quick trip was conducted down Sliding Sands trail, out to the Bottomless Pit and up Halemau-u trail for Messrs. Hill, DeLong, Crowley and Oberhansley. Perfect weather was enjoyed on this trip which had been postponed one day due to bad weather in the crater. Several points of interest elsewhere on Maui were visited while the party was on the island. An unusually beautiful sunrise was witnessed by the entire party on the 16th.

Concessioners.

The Maui Grand Hotel has done nothing about their promise made to Assistant to the Superintendent Moomaw and that saddle horse trips would be started on the first of this month.

me

The application of a Mr. Rogers from Waikapu was received concerning the concession. Some investigation of Mr. Rogers was conducted by the Ranger-in-Charge. All persons contacted spoke favorably of the man.

Ranger Service.

As usual either the Ranger-in-Charge or the Park Warden C. S. McCall were at the summit for Sunday sunrise and at staggered hours almost every day during the month.

Maintenance.

Work was started on Halemau-u trail with the one laborer found who was willing to brave the cold weather and live at Haleskale.

Travel.

Visitor count showed a slight decrease from last month. Bad weather was the cause of the drop in visitors this month.

Civilian visitors were about the same this month as October 1945 but the military visitors were two and one half times as great last year for this month.

Publicity.

A very nice article appeared in the Maui News about the visit of the Superintendent and the men from the regional office to Maui.

Exotic Animal Control.

Six goats were killed in the crater this month. No trips were made into the crater for the express purpose of controlling goats.

note
The goat population in the crater is increasing alarmingly due to the lack of personnel for control work. It is hoped that men will be available for control work before the silverswords are damaged.

Frank A. Hjort

Frank A. Hjort,
Ranger-in-Charge.

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 October
Interpretive Administrative Other Month
Permanent One One Two 1946
Temporary _____ _____ _____ Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	2	77	3 hrs.
Walks or Hikes			
Ruins or Hist. House			
Other	15	45	3 hrs.
Total	17	122	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	11	472	1 hr.
Orientation (Not connected with conducted trip)	4	80	1/2 hr.
Other (Not connected with conducted trip)	12	69	1/2 hr.
Total	27	621	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS
Thurston Lava Tube Trailside Exhibit	31
Kipuka Puaulu Trailside Exhibit	31
Tree Molds Trailside Exhibit	31
Observatory	27
Silversword Trail	31
(Give Name or Type) Total	151

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	23	4,260	1 hr.
Displays and Exhibits			
Replies to Inquiries			
Other	23	4,260	

11,803
Total Receiving Interp. Serv.
32,377
Total Number Visitors to Area

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

NAME James O. Logeland
TITLE Park Naturalist

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

*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 OVERLOOKS, MAYSIDE 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 5TH OF THE MONTH FOLLOWING THAT COVERED BY THE REPORT.

120905

10-23
(May 1929)

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

FILE NO.

Superintendent's Monthly Narrative Report
for September, 1946

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.

Summary of September 1946 4-page Monthly Narrative Report
for Hawaii National Park

General, p.1.- Long continued drought created such an acute water shortage that an emergency pipe line was laid to the large water storage tanks at the old CCC Camp and pumps installed to pump water to headquarters tanks. The 30th anniversary of Hawaii National Park as well as of the National Park Service was observed by appropriately illustrated talks.

Weather, p.2.- Precipitation at Kilauea 1.62" and at Haleakala 0.36".

Research & Observation, p.2.- During September 66 earthquakes were recorded - 33 each for Mauna Loa and Kilauea.

Inspections, p.2.- Inspection of park roads made by PRA Highway Engineer; surplus property on Oahu inspected by members of this force for Dept. of Interior.

Publicity, p.2.- Special articles and editorials of a very favorable nature were published in numerous issues of Star-Bulletin of Honolulu.

Ranger Service, p.3.- Acting chief ranger spent most of month on surplus property deals for the Department of the Interior; other ranger work largely routine, with all participating in laying pipe line.

Maintenance, p.3.- Numerous quarters rehabilitated and road patching of Mamalahoa Highway carried on.

Forest Protection, p.3.- At Kilauea section two goat drives made by contractor netting total of 30 goats. At Haleakala 34 goats were eliminated.

Interpretation, p.4.- At Kilauea 16 illustrated lectures were given in the park, with an attendance of 575; 18 conducted trips with attendance of 119.

Travel, p.4.- At Kilauea there were 30,266 visitors of which 9,493 were in the armed forces, and at Haleakala these figures were 2,120 and 337.

Miscellaneous, p.4.- Sugar strike throughout the islands causing acute food shortage and soaring prices; travel to the park decreased by nearly 12,000 due to the strike.

RECEIVED AS FOLLOWS

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

October 14, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of September, 1946:

General

Continued drought reduced water supplies in reservoirs and tanks to the danger point early in the month, resulting in the decision to tap the 200,000 gallon storage at the CCC Camp as soon as possible. After securing the necessary pipe from Hilo Naval Air Station, Kilauea Military Camp and other sources all hands were turned out to install a line between the park reservoirs and the CCC tanks, 3200 ft. away and 150 ft. lower down. The job was completed in three days, September 11 to 13th inclusive just as the last reserves were practically exhausted, with a narrow margin allowed for fire protection. This quick installation was made possible only by the united efforts of all departments working under emergency conditions. The park operator was forced to close all cabin accommodations earlier and the hotel was also in danger of having to close for lack of water. As a last resort the operator paid \$55 for a 1,000 gallon load of water hauled from Mountain View just as the pipe line was being completed. Several thousand gallons were almost immediately pumped to the concessioner's tanks and normal conditions restored.

One of the two pumps which Regional Director Tomlinson sent to the park at an earlier date supplies water from the CCC Camp at a rate of 5000 gallons per hour. The efficiency of our usable watershed is now increased over 100%, but the water problem is still unsolved. For maximum efficiency, economy, and adequate supply, and to eliminate the unsightly mass of sheds and tanks in the operator's utility area, it seems wise for the Service to control and operate the entire system by an agreement that would be satisfactory to this Service and the operator.

The 30th anniversary of this park as well as the Service was observed by appropriately illustrated talks. The Superintendent was guest speaker before the Rotary Club and Junior Chamber of Commerce in addition to giving two illustrated talks in the Observatory lecture hall.

An hour's hike was taken with Governor Steinback on September 2 and the following day a 2-1/2 hour trip was taken with him over the Chain of Craters and Hilina Pali section to discuss the Kalapana extension.

Former Superintendent Wingate visited in this office on September 17 in the interest of Hawaiians who might be concerned in the Kalapana extension. This tied in with his campaign for election with PAC endorsement for territorial senator in the primary election.

RECEIVED AS FOLLOWS

Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 79 and 51. At Haleakala ranger station these recordings were 71 and 28. Total rainfall at Kilauea was 1.62" and at Haleakala 0.38".

Research and Observation

The Kilauea and Mauna Loa seismographs recorded the same number of earthquakes during September, or 33 each. This is the lowest monthly total recorded during the last 5 months. But two of the shakes were perceptible at Park headquarters. They occurred on September 2 and 4 with origins deep under the east slope of Mauna Loa.

There was about the usual seasonal northeast tilt during the month. None of the measured cracks around Halemauau or along the Chain of Craters Road showed any distinct movement. A dark conspicuous fume column was observed over Mokuaweoweo just after sunset on September 2. Landslides from the walls of Halemauau were common during the month.

Inspections

Mr. Frank R. Carlson, Highway Engineer, Public Roads Administration from Honolulu, visited the park on September 17-18 to discuss and inspect roads and trails. He was conducted over the road system.

Mr. Frisick, Assistant Surplus Property Officer, and Mr. Thomas, Chief Inspector of S. P. O. from Honolulu, were in the park September 26 to discuss the needs of this Service and to inspect surplus property on the Island of Hawaii.

Messrs. Quick and Noonan spent considerable time in Honolulu on surplus property work.

Publicity

Many favorable articles featuring the attractions of the park appeared in the Hilo Tribune-Herald and the Honolulu Star-Bulletin, with the story of a trip to the summit of Mauna Loa which the superintendent conducted previously being published serially and rather dramatically treated under the title "This is Mauna Loa", by Vern Hinkley, Managing Editor of the Honolulu Star-Bulletin. Mr. Hinkley was in the park this summer almost two months and contributed about 13 or 15 articles to the papers.

Considerable publicity in the form of special articles and editorials was given to a road to the summit of Mauna Loa which the Governor urges as a project for the Kulani Prison camp now in progress of development in the midst of one of the most primitive forested sections on the slopes of Mauna Loa near the 1942 flow at approximately 5,000 ft. altitude.

RECEIVED AS FOLLOWS

Concessioners

Discussion is in progress with the park operator concerning proposed rate increases on hotel accommodations.

Ranger Service

The Acting Chief Ranger spent most of the month on the Surplus Property deal for the several Bureaus and Services of the Department of the Interior, both on Oahu and Hawaii, while the other rangers spent the month on generally routine protective duties, except from 11 - 13 when they joined the complete male staff of the Park in laying the emergency water line from the CCC Camp to the park reservoir.

Maintenance

While maintenance work throughout the month was largely routine, yet it was geared into high and much was accomplished in the rehabilitation of some of the quarters, including flushing floor drains in six of the dwellings. This last item has to be done at least once a month due to improper laying of sewer line during construction. Money under a F.C.P. has been requested to remedy this situation. Shoulder and pot hole patching on the Mamalahoa Highway was carried on as the men could be spared to it.

Forest Protection

At Kilanea section two goat drives were held by the contractor on the 15th and 29th netting a total of 30 goats removed from the park. At Haleakala 34 goats were eliminated.

Fire Protection

The quarterly Fire and Sanitation inspection was made during the month by the Ranger force, and regular report transmitted to the Regional Office. The Naval Air Station in Hilo transferred to us in September an International 4 x 4 fire engine, equipped with Fog Bean pump, which was excess to their needs, without exchange of funds. Both fire engines we now have were checked frequently during the month and one regular fire drill was held and all concerned were fully instructed on the use of pumps installed at each reservoir.

Insects and Tree Diseases

Good results have been obtained against morning glory growing in Bird Park by the use of Dichlorophenoxyacetic acid or "weedicide". Morning glory covering such native trees and plants as Straussia hillebrandii, Coprosma sp., Metrosideros collina var polymorpha, and an undetermined fern was sprayed with the chemical on September 3 and 24 days later was observed to be in a dying condition. No detrimental effects to the native trees were observed. Observations on Rubus penetrans are continuing and, although most of the leaves have dropped off, conclusions cannot be drawn at this time. The results to date warrant the purchasing of an additional amount of 2, 4-D for further experimentation.

RECEIVED AS FOLLOWS

Interpretation

At Kilmaea 16 illustrated lectures were given in the park, with an attendance of 575; 18 conducted trips with attendance of 119.

During September our interpretive program was expanded some. Dr. Powers commenced giving a weekly talk on how Hawaiian volcanoes are studied. The superintendent gave two anniversary programs in the park and several talks in Hilo.

William and Ruth Albee, noted photographers and adventurers, were in the park a few days and showed their movies "Afoot in the Yukon Wilds" to a group of 75 people. Mr. Albee is engaged in making color movies of the Islands for the Hawaii Visitors Bureau and it will be used to stimulate travel to the Islands. The Park Naturalist spent one day assisting Mr. Albee. The Park Naturalist gave illustrated talks at Hamakua Women's Club and at Olan P. T. A.

Travel

At the Kilmaea section there were 30,266 visitors of which 9,493 were in the armed forces, and at Haleakala these figures were 2,120 and 337.

Miscellaneous

The sugar strike throughout the territory is reflected in many ways on Maui and Hawaii. Neglected fields due to lack of irrigation, decreased travel, growing food shortages and soaring prices are apparent on every hand. Potatoes, for instance, cost the park operator \$10 per bag; eggs are \$1.35 a dozen, and butter \$1.25 per pound. Travel to the park decreased by almost 12,000 visitors during the month as a result of the strike.

Visitors

Governor Steinback
Territorial Representative Joe Farrington
Judge Martin Pence
Mr. Frank R. Carlson, P. R. A.
Admiral Towers,
Mr. Fradick of Surplus Property Office
Mr. Thomas " " " "
Mr. William Albee and family, to photograph the park

Frank R. Oberhansley,
Superintendent.

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



October 4, 1946.

MEMORANDUM for the Superintendent.

Report of the Hawaiian Volcano Observatory for September.

The Kilauea and Mauna Loa seismographs recorded the same number of earthquakes during September or 33 each. This is the lowest monthly total recorded during the last 5 months. But two of the shakes were perceptible at Park Headquarters. They occurred on September 2 and 4 with origins deep under the east slope of Mauna Loa.

There was about the usual seasonal northeast tilt during the month.

None of the measured cracks around Halemauau or along the Chain of Craters Road showed any distinct movement.

A dark conspicuous fume column was observed over Mokuaweoweo just after sunset on September 2.

Landslides from the walls of Halemauau were common during the month.

In addition to the regular routine of correspondence, consultation, and library work, I spent a little time on the preparation of an article for the Volcano Letter.

Routine seismology work up most of the time of Dr. H. A. Powers. A part of a day was spent at the Halemauau rim and 3 days were spent on the emergency pipe line. As time permitted he continued his studies of old tilt records.

In addition to assisting in the seismological routine, ^{Mr. Jucks} finished and installed a new type of drum drive for the Mauna Loa seismograph. A start was made on the overhaul of the Bosh-Omori seismograph. Two of his principal miscellaneous jobs were repairing a movie projector for Mr. Fagerlund and machining a part of a jack for Mr. Quick.

R. H. Finch

R. H. Finch,
Volcanologist.

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

October 8, 1946.

MEMORANDUM for the Superintendent.

Subject: Report of Activities of the Ranger Division for September, 1946

General

As reported separately the Acting Chief Ranger spent most of the month on the Surplus Property Deal for the several Bureaus and Services of the Department of the Interior, while the other members spent the month on generally routine protective duties, except from 11 - 13 when they joined the complete male staff of the Park in laying the emergency water line from the C.C.C. Camp to the park reservoir.

Maintenance

The extended period of extremely dry weather required to haul water for the park stock at the corral several times during the month.

Interpretive Service

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	2	140	2 1/2 hours

Research and Observation

Good results have been obtained against morning glory growing in Bird Park by the use of Dichlorophenoxyacetic acid or "weedicide". Morning glory covering such native trees and plants as Stemmadia hillebrandii, Coprosma sp, Metrosideros collina var polymorpha, and an undetermined fern was sprayed with the chemical on September third and twenty four days later was observed to be in a dying condition. No detrimental effects to the native trees were observed. Observations on Rubus penetrans are continuing and although most of the leaves have dropped off conclusions cannot be drawn at this time. The results to date warrant the purchasing of an additional amount of 2, 4-D for further experimentation.

The light trap operated in cooperation with the United States Public Health Service was in operation continuously during the month and is now located at the C.C.C. Camp.

One of the few remaining trees in Bird Park, Nagora distala var geminifera, was found dead on September 27th. There are nine seedlings of this tree at the park nursery and they will be set out in Bird Park as soon as weather conditions are favorable.

Four Pleomele aurea were set out at Hilina Fali on September 4.

Police Protection

Three commercial busses were warned about speeding on the Mamaloahoa Highway, all first offenders.

Mrs. Clyde Philips of Hilo was warned about disturbing native plants and improper parking by Ranger Davis.

Ranger Hauanio apprehended Mrs. Helen Wight, Miss Clara L. Stone and Mr. E. J. Bradshaw for breaking plants and shrubbery near Uwekahuna on Sunday, September 15. They were brought to Headquarters for questioning and the Asst. to Supt. was delegated for this duty by Supt. Oberhansley. The following interesting facts were disclosed, and may be of interest. Mrs. Wight has lived in or around Hilo for over 40 years, and Miss Stone for over 15 years, yet it is the First time that either of these ladies have ever been afoot in this Park, and they have only been through the park, via automobile, about three or four times. Mr. Bradshaw had just arrived in Hawaii from Kansas about 6 weeks earlier and it was his first visit to any National Park area. They were released after a lecture on Park ideals and policies and a stiff warning.

Wild life and Fish Cultural Activities

Two goat drives were held by the Contractor (Kilauea Section), on 15 and 29th netting a total of 30 goats, one other goat, five rats and 2 pigs were destroyed during the month.

Building Fire Protection

The quarterly Fire and Sanitation inspection was made during the month by the Ranger Force, this was made the subject of a separate report by Ranger Davis.

A general fire drill was held on the 30th to familiarize the staff with the new Fire Engine.

Public Health

The new pipe line was chlorinated on the 17th.

Ben. F. Moomaw,
Asst. Superintendent.

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

October 1, 1946.

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Monthly Narrative Report for September, 1946.

Maintenance

- (a) Hauling water to the horse corral.
- (b) Carrying pipe for emergency water line from C.C.C. Camp to park reservoir.
- (c) Making temporary repairs to Bird Park gate entrance.
- (d) Making alterations and repairs to horse corral.

Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	2	140	2 1/2 hours

Research

Good results have been obtained against morning glory growing in Bird Park by the use of Dichlorophenoxyacetic acid or "weedicide". Morning glory covering such native trees and plants as Stranisia hillebrandii, Coprosma sp, Metrosideros collina var polymorpha, and an undetermined fern was sprayed with the chemical on September third and twenty four days later was observed to be in a dying condition. No detrimental effects to the native trees were observed. Observations on Rubus penetrans are continuing and although most of the leaves have dropped off conclusions cannot be drawn at this time. The results to date warrant the purchasing of an additional amount of 2, 4-D for further experimentation.

The light trap operated in cooperation with the United States Public Health Service was in operation continuously during the month and is now located at the C.C.C. Camp.

One of the few remaining ^{now} trees in Bird Park, Fagaria dipetala var geminicaea, was found dead on September 27th. There are nine seedlings of this tree at the park nursery and they will be set out in Bird Park as soon as weather conditions are favorable.

Four Pleomele aurea were set out at Hilina Pali on September 4.

Protection

The quarterly fire and sanitation inspection was completed and was written up in report dated September 26.

The fire engines were checked frequently during the month.

Frequent motor patrols were made and three commercial busses were warned about speeding. Mrs. Clyde Philips of Hilo was warned about removing native shrubbery and improper parking.

Five rats were eliminated.

Miscellaneous

Mr. Eugene Horner and I visited the rare Hibiscadelphus giffardianus on September 27 and found it to be in good vegetative growth. The tree has been flowering but thus far no seeds have developed.

Respectfully submitted,

Clifton J. Davis

Clifton J. Davis,
Park Ranger.

2 - 4 - D Declares War on Weeds

No Let Down

Early reports on the action of 2, 4-D on weeds were a bit hard to believe. Bindweed almost completely killed with one application of a 1 to 1000 solution! Plantain and dandelion practically eradicated from turf and the blue-grass not even injured! Little wonder that the seasoned agricultural chemist took these stories with a "I'll wait and see" attitude.

Now, with a full season's work with this new herbicide behind us, it can confidentially be said that 2 4-D properly used, will do everything the early reports claimed. Like any chemical, it has its limitations, but results on the whole are nothing short of miraculous. Research workers who have explored the possible uses for this new type of weed killer agree that there is scarcely a farmer in the country who cannot employ it to advantage for the control of unwanted vegetation, and the list of its possible non-farm uses is growing every day. Surely, when the story of the significant agricultural and chemical developments of the current decade is written, 2, 4-D will share top honors, if it does not actually lead the parade.

How it kills

For those readers who are not already familiar with this herbicide, and the way it acts, 2, 4-dichlorophenoxyacetic acid (called 2, 4-D for short) is an organic compound of a type known to botanists as a plant hormone, or growth regulator. Applied at extremely light concentrations, many of the members of this group of chemicals initiate favorable growth responses in plants; i. e., faster rooting of cuttings, or improved setting of fruit. Greater concentrations may cause unfavorable reactions. 2, 4-D is among the most potent of this group of growth regulators. It causes death to many species when applied in a water spray at concentrations which are relatively dilute, compared with ordinary herbicides. The material is taken into the leaf and then translocated to other parts of the plant. It will be absorbed through the roots, if applied to the soil at high concentrations or dosages, but this practice is not recommended at present. Ordinary applications leave no toxic residue in the soil, except for a short period during which the germination of seed may be inhibited. There is no permanent effect on the soil from the recommended applications.

The usual first response is rather acute curvature of stems and leaves. Proliferated pith-like tissue frequently forms in stems and roots, causing enlargement and splitting, followed by decay of underground parts. Dying of leaf tissue proceeds gradually. The whole process of dying varies with the species, the temperature, other environmental conditions, and the stage of development of the plant. It may take only a week for nettle, or dandelion to die in hot, dry weather. Other species respond much more slowly and a few seem to be little affected.

Some die

More time will be required for the compilation of a complete and accurate list of weed species readily killed by 2, 4-D. Many of the state agricultural experiment stations are investigating 2, 4-D for the control of the weeds of their respective territories and will no doubt publish their recommendations. Among common weed pests of the northern states killed by this herbicide are: broadleaved and narrow-leaved plantain, dandelion, bull thistle, burdock, nettle and wild carrot. Under favorable conditions these are readily controlled with a single application. Canada thistle, sow thistle, goldenrod and bind weed (wild morning glory) all respond, but it is unlikely that one application will kill the entire underground root system of all these plants. Yet one spray has frequently given 90% control with only a few weak sprouts returning. Regrowth apparently arises from lateral roots which are difficult to kill. Many woody plants growing in unwanted places may be killed with this chemical, but here again their extensive root system will sometimes make a second application necessary. Poison ivy, poison and common sumac, wild cherry, sassafras, willow and honeysuckle are among noxious woody plants that are usually killed.

And Some Survive

The lack of response of many members of the grass family, at least at concentrations that kill other plants, is an interesting and valuable phenomenon. It makes possible the spraying of lawns of blue grass and other species for the selective killing of broad-leaved weeds. Roadside fence row and ditchbank applications will result in the control of many noxious weeds without exposing the soil to erosion as would be the case if all vegetation was killed. Permanent pastures consisting of grass species known to be resistant to 2, 4-D, and possibly white clover which is injured, but usually not killed, may be sprayed for the eradication of many unpalatable and unnutritious plants. In conjunction with appropriate fertilizer practices to promote the development of grass, weed control can greatly enhance the value of pasture land. Limited experiments indicate that 2, 4-D is nontoxic to livestock; however, until further research on this subject is conducted, pasturing should be avoided immediately after spraying.

The cereal crops which have been sprayed with 2, 4-D show little, if any, unfavorable response. Possibly bindweed, thistle, and other perennials can be eradicated at the same time a cereal crop occupies the land, thus minimizing soil erosion. Corn reacts slightly under some conditions, but its erect habit and rapid growth may make possible the use of a low flat spray with little wetting of the corn leaves.

Dow Formulation

Pure 2, 4-D is insoluble in water. First tests were made with the herbicide dissolved in Carbowax which was, in turn, mixed with water. Later it was found that the water soluble salts of 2, 4-D are effective. Dow Weed Killer A 510, containing 70 per cent of 2, 4-D is a convenient powder readily soluble in water. It has proved very effective when dissolved at the rate of $1\frac{1}{2}$ pounds per 100 gallons and applied in sufficient volume to thoroughly wet the foliage.

Somewhat stronger solutions should be used for the spraying of weeds found difficult to control. Because of its high degree of solubility a sprayer is easily cleaned after using this preparation. A final wash with a bicarbonate of soda or trisodium phosphate solution is desirable precaution before using the sprayer for other spraying purposes.

Dow Weed Killer A 510, has a minimum herbicidal effect on white clover which makes the preparation very desirable for home lawns. This is partly due to some natural resistance of white clover to 2, 4-D and partly to incomplete wetting of the leaves because of their waxy nature. For the control of noxious plants whose leaves are too waxy to permit ready wetting, the incorporation of a wetting agent with the A 510 spray solution has proved desirable. Experimentation is now in progress with compositions of 2, 4-D and its derivatives which have superior wetting and penetrating properties.

When to Spray

One of the remarkable things about 2, 4-D is its effectiveness when applied under a wide variety of conditions. In general, the cooler the weather following application the slower the action. However, early spring applications on turf have given satisfactory results with the advantage over summer spraying of killing dandelion before its flowering season. Results thus far indicate that the general run of weeds are best sprayed when they are in an active vegetative condition. Foliage should be thoroughly wet with the spray solution. Much further experimentation has yet to be carried out before definite recommendations can be made as to the best method and time of application under varying conditions and for different species.

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

October 3, 1946.

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report.

201. Part of the rehabilitation to building was charged to this account. Quarters #20 and #13 respectively.

207. Routine maintenance of grounds around headquarters, single girls quarters, Supt. residence, and public camp grounds were carried out during month.

208. The new electric pump was installed and put into service during month.

211. Floor drains at quarters numbers 15, 16, 18, 19, 20, 21, and 27 were flushed out during month. Due to improper laying of sewer line during construction, it is necessary to flush these drains at least once a month. Money under a P.C.P. has been requested to remedy this situation.

212. A temporary water line was installed between the C.C.C. Camp and the park reservoir and a pump installed to alleviate the water shortage during the prolonged dry spell that the Park is having.

217. Routine maintenance was carried out on all passenger carrying vehicles.

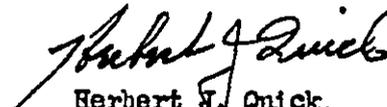
218. Routine maintenance such as janitor work, servicing of comfort stations, roadside cleanup, and policing of public camp grounds was carried out.

307. Rehabilitation work in this account was held down to a minimum during month.

502. Shoulder and pot hole patching on the Mamalahoa Highway was carried on during month.

Surplus Property

The undersigned spent ten days in Honolulu listing and inspecting surplus property in conjunction with Mr. Young of the U.S.B.R. One new fire engine was obtained from the Navy. A number of items were looked over at the Navy Base and requisition submitted to surplus property office.


Herbert J. Quick,
Foreman C. & M.

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

September 30, 1946.

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Report of Activities for the month of September, 1946.

Some time was spent performing fire and sanitation inspection. Some extinguishers were charged. A few new ones were installed in the garages. These were received from the U.S.E.D. Fire car checkup and fire fighting training.

Week end duty was performed. Assembling signs to be used during eruptions. Patrols were performed covering all park roads, and also a section of the Kipuka Ki.

During some of my patrols, violators were observed, such as driving cars off the road to pick berries and taking pictures, and also people having lunches in areas other than designated places. A little talk was given to them and warned them not to continue in doing it.

Suggestions: To install center post on Bird Park foot trail gate to avoid horses from going through.

To blockade new roads leading to Steaming Bluffs from main high way, also a road leading to the location where church services are performed.

To permit no fire arms to people when issuing permits for fishing while goat drives are performed. In one of the goat drives, there was some shooting done at the Keone area by people who supposed to be fishing. Due to this shooting the drive was broken and no goat could be corraled.

✓ Add:
C.R. & Hen Freeman -

Antone B. Medeiros
Antone B. Medeiros,
Ranger.

UNITED STATES
DEPARTMENT OF THE INTERIOR

Emergency Pipe Line

NATIONAL PARK SERVICE

This job that began with the Department's application to the Park Service
to find enough pipe ~~to tap the CCC Camp~~ **HAWAII NATIONAL PARK** to get the water at the CCC Camp
to our Reservoir so that we will be **HAWAII** to have water" **October 4, 1946.**

The pipe was located at the U.S.A., Hilo, and Kilauea Military Camp over
MEMORANDUM for the Superintendent: at Hilo was secured and was transferred to
the park at once: It was worked up by Mr. Quick's crew on the 3rd and 10th.

SUBJECT: Report of activities of Assistant to the Supt. during September 1946.
The pipe at K.M.C. was part of the station stock and was transferred only
as a loan to "B.F. Moore, Jr., Major, CA-204". AND not to "Hawaii National Park"
by "B. For the first time since the return of the Assistant to the Superintendent
from military furlough he has opportunity to write a monthly narrative report,
for the additional duties such as acting chief ranger, acting park engineer, and
the acquisition of surplus property for the U.S.D.I., Bureaus and Services, have
kept him away from his desk for days at a time as can be seen from the following
paragraphs and topics.
The park Reservoir at the rate of 2,000 gals. per hour.
Only about 5,000 gals. per hour (one day's supply) remained in the reservoir
General: new supply was tapped. The line was chlorinated by the Assistant
to the Supt. on the 17th.

Sept. 1 on duty at headquarters preparing to leave for Honolulu at 3:30 PM
to join Mr. Quick on surplus property for the U.S.D.I. where we remained until
Sept. 5. Sept. 5 noon to Sept. 10 on duty at headquarters. Sept. 10 to 13
installing emergency water line from CCC Camp to Reservoir. Sept. 16 at Hilo
on Park administrative business. Sept. 17 chlorinating park water supply and
the new emergency pipe line. Sept. 18 at headquarters. Sept. 19 at headquarters
and Hilo on administrative business. Sept. 20 Official trip to Kona and Kohala
to meet SS. Humaula. Sept. 21-26 Hilo and park headquarters on surplus property (full
time. Sept. 27-30 at park headquarters.

Surplus Property

This job that started in August assumed major proportions about the 1st.
The undersigned went to Honolulu on that date, joined Foreman H.J. Quick there and both
proceeded to inspect and locate as much equipment as possible for the Department;
however, due to lack of specific instructions from Washington and Chicago, this
trip amounted to little more than a reconnaissance. After submitting a report
to the Director from Honolulu, return was effected to headquarters on the 5th.
Mr. Quick returned to Honolulu on the 11th to continue this listing and in-
spection until the 20th.

On Mr. Quick's return attention was given to the excess and surplus
property stored at the Army, Navy and Marine yards in Hilo. Full time was
devoted to this property and the requisitioning from Surplus Property Office
of a portion of the Department's needs.

At the present writing this job is far from completed and will require
many more days, if not weeks, to complete the work and then only a portion of the
Department's needs may be located and procured.

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



Wailuku Maui
October 6, 1946

Memorandum to the Superintendent Frank R. Oberhansley:

The following narrative report for the month of September 1946 is respectfully submitted;

The strike called by the sugar workers throughout the territory is noticeable even from Haleakala as the color of the cane fields has faded to a pale green due to lack of irrigation of the cane.

Weather Conditions in the Park.

Maximum Temperature----71 degrees on the 3rd
Minimum Temperature----38 degrees on the 28th
Rainfall total-----0.35 inches
Clear days-----20
Partly cloudy days----10
Cloudy days-----none

Public Service Contractors

The Maui Grand Hotel has made no move to carry out their promise of having saddle horse accommodations ready by the first of October as no stock has been brought up and nothing was being prepared by the end of this month.

Flora

The silverswords have finished blooming in the crater. No new blossoms were observed by the various parties going through and the ones blooming had long since reached their peak.

Use of the Park by the Public

Civilian travel figures fell off again this month as they usually do when school starts. Further reduction of the military forces on the island caused a decline in military figures also.

Not quite twice as many civilian visitors were recorded as this month last year. There were only one twelfth as many military visitors this month as Sept. 1945.

Visitors

Admiral Towers was a sunrise visitor this month.

Exotic Animal Control.

Thirty-four goats were killed in the park this month.
Several pigs were killed just outside the park in the Lauulu area.

Frank A. Hjort

Frank A. Hjort
Ranger-in-Charge

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

October 10, 1946.

MEMORANDUM for the Superintendent.

Below is the Park Naturalist's monthly report for September 1946, to which is attached Statistical Report of Interpretive Services for September 1946.

General

The Park Naturalist was in the park from September 1 to 22 inclusive. A considerable portion of the time was devoted to public contact and the remainder given to preparation of a guide map, maintenance, Natural History Association activities, photography and to sundry other details. The period of September 23 to 30 inclusive was spent in Honolulu on official business which included, photography, Natural History Association activities, surplus property negotiations and a number of other jobs.

Administration

The Park Naturalist had a few consultations with the Superintendent. Three of the days in Honolulu were spent on administrative matters.

Maintenance

The Park Naturalist helped one day in laying a pipe line between C.C.C. Camp and the park utility area. One day was spent on maintenance of projectors and other educational equipment.

Interpretation

The interpretive program was expanded some. Dr. Powers commenced giving a weekly talk on how Hawaiian Volcanoes are studied. Superintendent Oberhansley gave two anniversary programs in the park and gave several talks in Hilo.

William and Ruth Albee, noted photographers and adventurers, were in the Park a few days and showed their movies "Afoot in the Yukon Wilds" to a group of 75 people. Mr. Albee is engaged in making a color movies of the Islands for the Hawaii Visitors Bureau, and it will be used to stimulate travel to the Islands. The Park Naturalist spent one day assisting Mr. Albee.

The Park Naturalist gave illustrated talks at Hamakua Women's Club and at Olaa P. T. A.

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

Museum Activities and Exhibits

Twenty eight natural color photographs of National Parks and National Monuments were received from the Standard Oil Company of California. It is proposed to frame and exhibit them in the lobby of the Observatory and Naturalist Building.

Research and Observation

Dr. John Embree of the Archeology Department, University of Hawaii was contacted in Honolulu regarding possibilities for obtaining a graduate student to make an archeological reconnaissance in the park. He thought a Mr. Holt might be interested in the work. The service collaborating policy was explained to Dr. Embree.

Natural History Association Activities

Four days were spent working on a guide map of the park. Detailed specifications were left with Dr. G. A. Macdonald of the U.S.G.S. in Honolulu whose draftsman will make the map for us.

The Paradise of the Pacific Publishing Company in Honolulu was visited to obtain price quotations and other information pertaining to publishing a booklet on the geology of the park.

Some time was spent preparing signs for sales publications.

Photographic and other Visual Aids

Several smaller items of photographic equipment were examined and selected at Kodak Hawaii in Honolulu and specific instructions were given their repairmen on repairing one of our 16 mm. projectors.

Use of Park Facilities by the Public

The starting of schools brought little change in visitation. A few schools requested interpretive services at the schools and in the park.

Howard K. Morris of the Hawaii Tour and Travel Service was contacted in Honolulu. He stated that he was unable to bring his tours to Hawaii Island during September because accommodations were not available.

Important or Influential Visitors

William and Ruth Albee.

Proposed Naturalist Activities for October

Mr. Albee wants to obtain about 100 feet of eruption movie from our 1940 and 1942 films. Scenes will be selected and edited for him. If time permits a text for the guide map will be worked on.

October 19 to 31 inclusive will be spent on the Island of Kauai where 15 or more illustrated talks will be given at schools and various clubs and organizations under the auspices of the Kauai County Y. M. C. A.

I expect to take annual leave the last few days of the month.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Park Naturalist.

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*
Hawaii National Park

120905

NUMBER OF PERSONS ENGAGED: Name of Area September
Interpretive Administrative Other Month
Permanent One One Two 1946
Temporary _____ Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	2	12	2 hrs.
Walks or Hikes	2	38	1/2 hrs.
Ruins or Hist. House			
Other	14	50	3 hrs.
Total	18	100	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	11	525	1 hr.
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)	5	50	1/2 hr.
Total	16	575	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	30	3,000	1/4 hr.
Kipuka Puanu	30	1,500	"
Tree Molds	30	300	"
Observatory	26	1,400	"
Silversword Trail	30	1,000	"
(Give Name or Type) Total	146	7,300	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	5	164	1 hr.
Displays and Exhibits			
Replies to Inquiries	4		
Other			

8,139
Total Receiving Interp. Serv.
32,386
Total Number Visitors to Area

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

NAME Gunnar O. Fagerlund
TITLE Assoc. Park Naturalist.

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

* 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 OVERLOOKS, 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

10-23
(May 1929)
6-7410

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

FILE NO.

SUPERINTENDENT'S MONTHLY NARRATIVE REPORT

AUGUST, 1946

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

Summary of August 1946 6-page Monthly Narrative Report for
Hawaii National Park

Superintendent's Activities, p.1.- Many prominent people visited at the office; Public Health Service conducted a Food Handlers School in park; worked on final estimates; made many inspection trips of remote sections of park, including summit of Mauna Loa.

Weather, p.1.- Precipitation at Kilauea 2.97"; at Haleakala 0.38". Water low.

Administrative Work, p.2 & 3.- Inspection of proposed Kalapana park extension, on foot and by air. Two-day general clean up and disposal of tremendous accumulation of rubbish in area. Community dinner.

Research & Observation, p.3.- During August 53 earthquakes recorded at Kilauea and 46 at Mauna Loa, but no unusual disturbance for either Kilauea volcano or Mauna Loa.

Ranger Service, p.3 & 4.- Chief Ranger Fagerlund was returned to his former position as park naturalist and Assistant to the Superintendent Moomaw appointed to act as acting chief ranger until ranger-in-charge at Haleakala is transferred to Kilauea. A 4-day inspection trip made by Chief Ranger Fagerlund and Park Ranger Medeiros on foot and horseback to remote seacoast sections of the park to relocate and sign trails, plan new shelters and rehabilitate old ones, etc.

Maintenance Division, p.4.- Considerable road work accomplished, automotive equipment repaired, excess equipment negotiated for from Army and Navy, general clean up.

Forest Protection, p.4.- At Kilauea section 8 goats were eliminated and at Haleakala 72 goats and 9 pigs were disposed of.

Interpretation, p.5.- At Kilauea 43 illustrated lectures were given with an attendance of 1090; 18 conducted trips with attendance of 119.

Travel, p.5. At Kilauea there were 41,862 of which 8,829 were in the armed forces.

Visitors, p.5 & 6.- Among the many prominent visitors to the park were Assistant Secretary of War Peterson, Vice Admiral Carl Cotter, Lt.Gen. Decker, Chief of Staff Mid.Pac., Territorial Representative Joe Farrington, Samuel B. Kemp, Chief Justice of Territorial Supreme Court.

RECEIVED AS FOLLOWS

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

September 17, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of August, 1946:

Superintendent's Activities

The superintendent was on duty all month. One general staff meeting and two department-head meetings were held to plan urgent work.

On the 6th attended a luncheon at K.M.C. given to a group of 13 important visitors, including assistant secretary of war Peterson, several rear-admirals, Mr. Adler of the Treasury, etc. After lunch the superintendent took the party on a two-hour tour of the park and they went away very much impressed with its beauty and natural phenomena and with a better idea of what the park service is and does.

The superintendent attended Chamber of Commerce banquet at the Hilo hotel given in honor of Representative Farrington on the 30th; attended Food Handlers School conducted by Lt. Col. Robertson of the Public Health Service in the park on the 6th, Colonel Robertson in speaking of this school said he had never seen a more sanitary and pleasing service than was offered by the waitresses in doing their work during that part of the school which was held in the kitchen and dining-room of the Volcano House.

Several prominent people from the Islands, including Territorial Representative Joe Farrington visited at the superintendent's office during the month.

Worked on final estimates and made frequent inspections of the park, studying visitor use. One week-end was spent on a trip around the Island to get the over-all picture and a trip was made with Territorial Forester Bryan up Mauna Kea to observe grazing and forestry problems. A two-day trip was made to the summit of Muana Loa and the Pit Craters section of the Kau Desert; on two additional days the southern section of the park was explored for orientation.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 78 and 50. At Haleakala ranger station these recordings were 74 and 42. Total rainfall at Kilauea was 2.97" and at Haleakala 0.38". It was unusually dry during the entire month and our water supply gave us uneasiness. We are endeavoring to devise some scheme of augmenting our rain catch.

RECEIVED AS FOLLOWS

Administrative Work

The superintendent continued to hike over the park when time permitted to gain first-hand information on maintenance needs, signing and clean-up. On the 7th, in company with Volcanologist Finch, and Nick Lycurgus he hiked from the end of the Chain of Craters Road over the 15-mile Kalapana Trail to the town of Kalapana to observe park values and study the advisability of extending the road over this proposed addition to the park following this general route. Perhaps the N.E. section of this addition represents best the fast disappearing remnants of primitive areas left on the island of Hawaii. Although parts of the area have been invaded with exotics, spread mostly by natural agents, there are virgin stands of some of the finest and largest Ohia trees, with the extremely rare Sandalwood evident in several places. There are also historic values, including burial caves and the ancient Kalapana Trail itself, laboriously hand constructed by early Hawaiians, that would undoubtedly be destroyed in part if a highway were permitted to invade the area. Since there is considerable pressure for a loop road through the park that would include the scenic coast line drive via Black Sand Beach, it seems wise to consider a new route via the desert like Hilina Pali which offers much more scenic possibilities along the coast line and would result in far less damage to this primitive section. A careful survey of archaeological values should of course precede and guide construction of such a highway, as there are many examples of Hawaiian culture in this section.

In addition to this on-foot inspection of the Kalapana extension, the superintendent flew over the region several times in a navy plane accompanied by Volcanologist Finch, geologist Powers and park naturalist Fagerlund.

When it became obvious that the maintenance division was inadequate to cope with the tremendous accumulation of rubbish in the hotel, residential and utility areas, a two-day clean-up campaign was decided upon and a committee consisting of assistant to the superintendent Moomaw, general foreman Quick, volcanologist Finch, and Mr. Nick Lycurgus (representing the concessioner) was appointed to coordinate the work. The concessioner provided two trucks with drivers and together with three Park Service trucks and crews disposed of approximately 100 truck loads of rubbish, which was burned or buried at the old CCC dump. This general clean-up was necessary, not only in the interest of good housekeeping in the area as a whole, but for health and sanitation purposes. Unassorted junk in and adjacent to storage sheds furnished excellent homes for rats and several bushels of droppings indicated the length of time this junk and debris had been accumulating.

The women and children cooperated in cleaning residential areas and on the final cleanup day the ladies provided a grand dinner which was prepared and served in the CCC dining hall, with Miss Mack serving as chairman for this fine community social.

Since the weather continued to remain fair throughout the month with abnormally low precipitation, an acute water shortage is developing which may necessitate

RECEIVED AS FOLLOWS

some curtailment of hotel facilities and compel us to either haul water or connect with the CCC storage tanks nearly a mile away. This will require finding and laying the necessary pipes and installing at least one booster pump on the proposed line. While this is a temporary solution, the increased watershed may provide more than sufficient water for our own needs and the surplus may be sufficient to permit the hotel to continue extending service to guests.

Research and Observation

During the month of August 53 earthquakes were recorded at Kilauea and 46 at Mauna Loa. All of the more distinct earthquakes were recorded at both stations. Only one of the shakes was felt at park headquarters.

The volume of steam escaping from Makuaweoweo has been more than normal for the last 3 years. Observations from the rim on August 28 and 29 revealed a distinct bluish cast to the fume. A cone at 11,750 ft. on the northeast rift of Mauna Loa is always steaming. Observations made on August 29, at a time of high humidity, show that a small amount of steam escaped from a crack about two miles long in the vicinity of this cone. There was a slight accumulation of North-Northeast tilt during the month, though the amount was less than usual for this season of the year. There was but little movement at any of the cracks around the Halemauau rim or along the Chain of Craters Road. There has been a slight decrease in the amount of steam escaping at the hot area in the vicinity of Kohoolau crater, though the temperature of the active vents is about the same.

As time permitted the volcanologist did preliminary work for an article on the Puna rift. Two days were spent on a trip to the summit of Mauna Loa. A large part of the time throughout the month was spent in consultation and taking care of routine correspondence.

Most of Geologist Powers' time was spent in seismological routine. His main project during the month was a study of relation of tilt and temperature.

Instrument Maker Loucks spent most of his time in routine work, with special work being done on the Bosch-Omori seismograph, a battery eliminator, a spare driving clock, and a new drum drive.

Ranger Service

Chief Ranger Fagerlund was returned to his former position of park naturalist on August 11 and Mr. Moomaw, assistant to the superintendent, was appointed acting chief ranger as of that date to serve until the ranger-in-charge at Haleakala section is transferred to Kilauea. Chief Ranger Fagerlund and Ranger Medeiros made a four-day patrol to remote sections of Kilauea August 8 to 11, inclusive, and a splendid report with pictures has been submitted. The purpose of this survey was to ascertain the condition of trails and possible relocation of some, where no

RECEIVED AS FOLLOWS

trails exist a drawing was made of proposed trails; existing shelters were examined and needed improvements listed and locations designated for new shelters. Boundary fences were inspected and many of them were found deteriorated beyond repair, the steel posts having rusted off at ground level; in many cases the fences were completely covered with drifted sand. The rangers did a little exploring as they went along. The nearly flat benches of land that lie between the shore and the palis they were traveling over are barren lava flows, mostly pahoe-hoe. As that type of lava flow characteristically has lava tubes, that section is a region of hundreds of such tubes with even more numerous openings that have resulted from roof breakdowns. It is known that the Hawaiians who formerly lived along this dry sea coast made use of lava tubes for burial and although time did not permit a very extended examination of the tubes, in one which they explored they found a human skull and some other bones of a skeleton, indicating the possibilities for archaeological exploration. Petroglyphs were also found at several places near the shore, with evidence of Hawaiian culture also present in remnants of buildings.

All rangers participated in the two-day general cleanup and also attended the Food Handling School. Acting chief ranger Moomaw was detailed to Haleakala Section together with Foreman Quick for four days during the month to work with the Territorial Road Engineer on park roads, etc. The usual ranger week-end duty was performed and two travel counts were made.

Maintenance

Work was continued on patching Mamalahoa highway as the men could be spared from more urgent work. Foreman Quick spent considerable time dickering with the Army and Navy for excess equipment (without transfer of funds) and early in the month rolled into park headquarters driving an almost new huge fire engine, complete in equipment of all sorts, which he had succeeded in convincing the Navy should be donated to Hawaii National Park. He also got several trucks from them and then began working on getting a good quota of spare parts for them. Foreman Quick accompanied the superintendent on several trips to determine maintenance and rehabilitation needs and spent two days on the cleanup. Considerable automotive, and janitor work at headquarters and observatory was accomplished, together with maintaining specified grounds, hauling garbage, etc.

Forest Protection

At Kilauea section 8 goats were eliminated and at Haleakala 72 goats and 9 pigs.

Fire Protection

The recently acquired fire engine was serviced and taken on short runs several times during the last week of August. It is in splendid working order.

RECEIVED AS FOLLOWS

Insects and Tree Diseases

Experiments with 2, 4 - dichlorophenoxyacetic acid were begun on August 17. Some blackberry plants and other weed pests were sprayed with a solution of 2, 4-D at the rate of 2 oz. to a gallon of water. Although it is a bit early to draw conclusions, some of the symptoms of the toxic reaction are becoming apparent. The leaves are turning yellow and there seems to be some curvature of the stems. In some of the mainland parks this herbicide has given good results in the control of morning glory. If this weedicide proves satisfactory it will be a big help to the rare tree project at the nursery and in the field.

Some progress was made on the check list of Insects of Hawaii National Park.

Another destructive insect, Polydama umbricola, was recently discovered at Pahala. It is a serious defoliator of Monkey pod and Opiuma, both Legumes.

Mr. Fred Bianchi, Assistant Entomologist of the Experiment Station, Hawaii Sugar Planters Association, was a park visitor recently. Forest insect problems were discussed and a short trip to the Kalapana Extension and Kulani was made. Mr. Bianchi has identified many insects for the park and has been very cooperative on insect problems.

A light trap is being operated in the park in cooperation with the United States Public Health Service. Light traps operating throughout the Territory of Hawaii have revealed the presence of a number of destructive immigrant insects not previously recorded.

Interpretation

At Kilauea 43 illustrated lectures were given in the park, with an attendance of 1090; 18 conducted trips with attendance of 119.

Travel

At the Kilauea section there were 41,862 visitors of which 8,829 were in the armed forces, and at Haleakala these figures were 1,932 and 386.

Visitors

Mr. Ralph Wooly, prominent contractor and churchman from Honolulu.
Colonel Muller, former C.O. at K.M.C., who was responsible for most of the development there
Commander Kirschner, C.O. at Hilo NAS
Assistant Secretary of War Peterson
Vice Admiral Carl Cotter
Lt. General Decker, Chief of Staff MIDPAC
Mr. and Mrs. Larson, Manager Ookala plantation, Hawaii

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Visitors (Continued)

Territorial Representative Joe Farrington
Samuel B. Kemp, Chief Justice of Territorial Supreme Court, Honolulu
Judge Martin Pence, Hilo
Glen Akina, County Commissioner, Hilo, Hawaii
Andy Spaulding, County Board of Commissioners, Hilo
Al Greene, President Chamber of Commerce
Robert Moir, Secretary Hilo Chamber of Commerce

Frank R. Oberhansley,
Superintendent.

7m. 9/5

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



Sept. 4, 1946.

MEMORANDUM for the Superintendent.

Volcanologist's report of activities for month of August.

During the month of August 53 earthquakes were recorded at Kilauea and 46 at Mauna Loa. All of the more distinct earthquakes were recorded at both stations. Only one of the shakes was felt at Park Headquarters.

The volume of steam escaping from Makuaweoweo has been more than normal for the last 3 years. Observations from the rim on August 28 and 29 revealed a distinct bluish cast to the fume. ~~A small amount of steam.~~ A cone at 11,750 ft. on the northeast rift of Mauna Loa is always steaming. Observations made on August 29, at a time of high humidity, show that a small amount of steam escaped from a crack about two miles long in the vicinity of this cone.

There was a slight accumulation of North - Northeast tilt during the month, though the amount was less than usual for this season of the year.

There was but little movement at any of the cracks around the Halemaumau rim or along the Chain of Craters Road.

There has been a slight decrease in the amount of steam escaping at the hot area in the vicinity of Kokoolau crater, though the temperature of the active vents is about the same.

As time permitted, the Volcanologist did preliminary work for an article on the Puna rift. Two days were spent on a trip to the summit of Mauna Loa. A large part of the time throughout the month was spent in consultation and taking care of routine correspondence.

Most of Geologist Powers' time was spent in seismological routine. His main project during the month was a study of relation of tilt and temperature.

Instrument Maker Loucks spent most of his time in routine work, with special work being done on the Bosch-Omori seismograph, a battery eliminator, a spare driving clock, and a new drum drive.

Vern Hinckley, Managing Editor of the Honolulu Star Bulletin, spending a month's vacation at the Volcano House, volunteered to do the changing of the Mauna Loa seismograph throughout the month, which was of great help.

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

UNITED STATES
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NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII



September 9, 1946

MEMORANDUM for the Superintendent,

Subject: Narrative Report of Chief Ranger Activities August 1 to 11 inclusive.

General

My appointment to the position of Park Naturalist terminated my Chief Ranger duties on August 11.

Maintenance

Two days were spent rearranging and cleaning the Naturalist's office and laboratory.

Use of Park Facilities by the Public

Delegate Joseph Farrington and Miss Mary Martin, Vice Chairman of the Republican National Committee were conducted on a tour of the Park.

Activities of Other Agencies in the Park

Col. J. L. Robertson, Senior Sanitary Engineer, U. S. Public Health Service conducted a Food Handlers School in the Park on August 6th.

Protection

An accident on Mamalahoa Highway on August 3 was investigated. A report of this accident involving one death was submitted. Assistance was given in the investigation of park truck accident on the Crater Rim Road August 6.

With Ranger Medeiros a four-day patrol was made of the outlying areas of the Kilauea Section. A report of this patrol was prepared for the Superintendent.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Chief Ranger.

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



Miss Mack

September 1, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger:

Subject: Monthly Narrative Report for August, 1946.

Maintenance

Two days were spent on park clean up.

Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	4	275	4 Hours
Y.M. C.A.	1	38	1 Hour

Research

Experiments with 2, 4 - dichlorophenoxyacetic acid were begun on August 17th. Some blackberry plants and other weed pests were sprayed with a solution of 2, 4 - D at the rate of 2 oz. to a gallon of water. Although it is a bit early to draw conclusions, some of the symptoms of the toxic reaction are becoming apparent. The leaves are turning yellow, and there seems to be some curvature of the stems.

In some of the mainland parks this ^{good} herbicide has given good results in the control of morning glory.

If this weedicide proves satisfactory it will be a big help to the rare tree project at the nursery, and in the field.

Some progress was made on the check list of Insects of Hawaii National Park.

Another destructive insect, Polydesma umbricola was recently discovered at Pahala. It is a serious defoliator of Monkey pod and Opiuma, both Legumes.

Protection

A follow up on the Volcano House fire hazard inspection was made on August 9 and findings were noted on a separate memorandum.

Where is the check list?

The recently acquired fire engine was serviced and taken on short runs several times during the week ending Septemeber 1. It is hoped that this engine can be housed before long as it is too good a piece of equipment to be exposed to the weather. *Too big for bldg which must be altered by raising beams -*

Two theft cases were forwarded to this Office by the Hilo Police and are being investigated by the undersigned. A 35 mm. camera owned by Mr. Foreman Thompson of Hilo was stolen from a car parked in front of the Volcano House on August 15th. *Have you any leads?*

Another camera and case belonging to Mrs. H. Starr Ballou of Massachusetts was stolen from said persons room at the Volcano House between August 20-21.

Frequent motor patrols were made during the past month.

Miscellaneous

I attended the morning and afternoon classes in food handling given by Mr. Robertson of the United States Public Health Service on August 6.

A total of 260 visitors registered at the picnic grounds during the last half of August.

The break down is as follows:

Summer Camp	20
Namakani Paio	35
Lower Bird Park	65
Upper Bird Park	140
Total	260

One morning was spent on travel count.

A solution of Kerosene - D.D.T. was made up for fly control at the various picnic site lavatories. *Has it been applied at all sites?*

Some needed badly at Bird Park -
Motor vehicle accident forms and procedure were worked up and are now ready for distribution in government vehicles.

Mr. Fred Bianchi, Assistant Entomologist of the Experiment Station, H.S.P.A. was a park visitor recently. Forest insect problems were discussed and a short trip to the Kalapana Extension and Kulani was made. Mr. Bianchi has identified many insects for the park and has been very cooperative on insect problems.

A light trap is being operated in the park in cooperation with the United States Public Health Service.

Light traps operating throughout the Territory of Hawaii have revealed the presence of a number of destructive immigrant insects not previously recorded.

All catches in the park are being identified by Entomologist stationed in Honolulu and we are being furnished a list of insects so identified.

Suggestion

On the last trip that Rangers Medeiros, Hauanio and I took to Mauna Loa it was observed that the food stock at Red Hill was very much depleted. It appears that word had gone around that there was a lot of food up there and consequently not many were taking food along. It is suggested that on the permit forms for Mauna Loa there be included "Bring your own food".

Recommendation

The water tanks at the end of the Mauna Loa Truck Trail and at Kipuka Nene are just about empty. It is recommended that they be refilled as soon as possible.

Who has been taking care of water supply at those places? Respectfully submitted,

Clifton J. Davis.

Clifton J. Davis,
Park Ranger.

Every visitor going to Mauna Loa should be required to take enough food along to provide for himself - We made quite a contribution to the caches

What has been published on Ent. research in the park?

August 31, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Report of Activities for the month of August 1946.

One patrol and inspection tour was made accompanied by Fagerlund, beginning at the half way house horse corral, and covering the areas of Mauna Iki, Kamakaia, Pepeiau, Elemakule, Kalua, Kaone, Halape, Apua, Kahua, Polikiawe Pali, through the Hermit's Trail to Makaopuki.

At Kaone four travelers was observed on horse back. These were natives from Puna going to Kau. At Halape beach, the shelter, some damage was done by the tidal wave. At Apua most all of the remains of the wrecked wooden vessel which was lying along the shore line was washed far inland. A huge log that has been lying on the shore line for a number of years has disappeared. In the area between Apua and Kahua, 5 donkeys were observed.

One patrol and inspection tour was made to the summit of Mauna Loa. This was accompanied by Superintendent Oberhansley, Mr. Finch and Health Officer Mr. Hinkley.

Some time was spent shoeing park horses for the Mauna Loa trip. Took horses to halfway house horse corral, and bringing them back to saddle room corral, also from Makaopuhi.

One travel count was performed at the Hilo entrance, and also an accident investigation which occurred on the Mamalahoa Highway within the park area.

A week-end duty was performed making some patrols, covering the roads and areas of Mamalahoa Highway, Bird Park, Halemauau, and the Chain of Craters.

One car load of rubbish was picked up along the Mamalahoa Highway. In the Lava Tube a large amount of papers, broken and unbroken bottles was picked up. Most of these papers were newspapers half burnt used as torches. Suggest that any one making a checkup in the lava tube to bring a sack along.

Two days was spent in the cleanup within the utility area. During the shore line tour, 8 goats were destroyed.

A. B. Medeiros

A. B. Medeiros,
Ranger.

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 August

	Interpretive	Administrative	Other	
Permanent	One	Three	Three	1946
Temporary	_____	_____	_____	Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	15	60	2 Hours
Walks or Hikes	3	59	2 Hours
Ruins or Hist. House			
Other			
Total	18	119	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	11	650	1 Hour
Orientation (Not connected with conducted trip)	20	400	
Other (Not connected with conducted trip)	12	40	2 Hour
Total	43	1090	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	31	4,000	1/2 Hour
Kipuka Puanui Trailside Exhibit	31	2,000	1/2 Hour
Tree Moles Trailside Exhibit	31	400	1/2 Hour
Observatory	27	2,000	1/2 Hour
Silversword Trail	31	1,000	1/2 Hour
(Give Name or Type) Total	151	9,400	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	1	40	1 Hour
Displays and Exhibits			
Replies to Inquiries			
Other	1	40	1 Hour

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

10,649
Total Receiving Interp. Serv.
44,456
Total Number Visitors to Area

NAME James O. Fogelone
TITLE Assoc. Park Naturalist

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

*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 OVERLOOKS, 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.

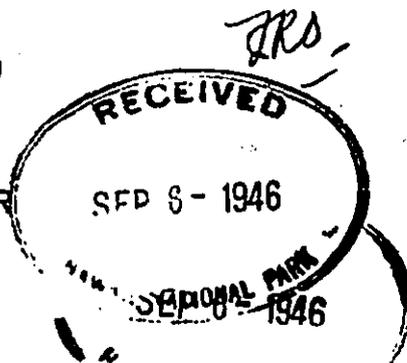
TOTALS: A SUMMARY OF INTERPRETIVE SERVICES FURNISHED VISITORS WITHIN THE AREA IS PROVIDED FOR IN THE LOWER RIGHT-HAND CORNER. TOTAL ATTENDANCE SHOWS THE ACTUAL NUMBER OF VISITORS WHO TOOK ADVANTAGE OF THE VARIOUS INTERPRETIVE SERVICES OFFERED. SINCE EACH VISITOR MAY USE SEVERAL DIFFERENT INTERPRETIVE 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

Miss Mack:
Please remind me to send auto
& Sport Nov. re moving

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



Memorandum to the Superintendent Frank R. Oberhansley:

The following narrative report for the month of August 1946 is respectfully submitted;

After spending six and one half years in the Haleakala section my family was finally flown to Hilo by the Navy and installed in temporary quarters at Kilauea to await the refinishing of our permanent home.

Weather Conditions in the Park.

Maximum temperature-----74 degrees on the 23rd and 24th.
Minimum temperature-----42 degrees on the 9th.
Rainfall total-----0.38 inches
Clear days-----20
Partly cloudy days-----9
Cloudy days-----2

Park Inspections. Assistant to the Superintendent Ben Moomaw and Park Foreman Herbert Quick visited the park this month but little was accomplished on the part of Mr. Quick as he was called back to headquarters on urgent business.

Mr. Moomaw and I gave the property a quick checking over with an eye to finding out what must be done to bring things up to date.

Mr. Frank Carlson, Federal Road Administration representative, also inspected the road in the presence of Mr. Burdick, Territorial road representative, and discussed the possibility of maintenance of our road by his crew. Burdick's figures were so far out of line as to be ridiculous. Less than fifty man days were spent on the strip of road below the park to the Kula road and his maintenance cost figures on this strip were over one thousand dollars per mile for the year.

Labor Situation. The labor situation here has become very serious. It was taken for granted that a laborer would be furnished after July 1st for this section if any laborer funds were set up at all for either section. I do not see how the work can be done here with the present crew. The people of this island were promised that a man in uniform would be at the summit at all times possible while the park is open. This job alone justifies a minimum of four persons yet there is plenty of other laborer work that must be preformed by either Warden McCall or myself and I am informed by the Park Foreman that I am to crate and move my own furniture and household goods.

Public Service Contractors. Assistant to the Superintendent Moomaw and I talked with Mr. Duxton of the Maui Grand Hotel. We were assured that he had found a man to take over the saddle horse part of the concession for him and that he would start as soon as possible to take parties into the crater.

Cooperating Governmental Agencies. The Territory has completed their fence below the park boundary and have started planting a few trees. The foreman says that only 4 weeks work is anticipated due to the lack of seedlings so when this bit is done planting will be postponed. Walnut trees were planted near the edge of the native forest east of Puu Luau.

Birds. The Pacific Golden Plovers were first seen to have returned from the north about the middle of the month. We always look forward to the return of these remarkable birds as there is so little bird life this high up on the mountain. We hope the female plover that formerly spent a part of her time in our yard makes her return safely with her young.

Increase or Decrease in Travel. There was a sharp rise in the number of civilian visitors this month. The only probable cause of this might be that the mountain has been exceptionally clear and visible from the isthmus all during the month. The small increase in military figures was due to the docking of several ships in Kahului Harbor long enough for the crews to get transportation and come up to see the park.

The expected crowd on Sunday the 18th did not pan out except for forty cars for sunrise. Evidently the American Legion was so well entertained down below that they did not have time to come up.

There were about twice as many civilian visitors this month as during August 1945. There were about one sixth as many military visitors this month as during the same month last year.

Destruction of Exotic Animals. Seventy-two goats were killed in the park this month.

Permits were issued to several parties to carry guns through the park for the purpose of hunting pigs in the Lauulu area resulting in the killing of nine pigs.

7

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

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Hawaii NATIONAL PARK

FILE NO.

SUPT'S MONTHLY REPORT FOR JULY, 1946

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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Summary of July 1946 4-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- New superintendent meets many groups of Island people and is much entertained. Change in command at Kilauea Military Camp.

Weather, p.1.- Precipitation at Kilauea 8.29"; at Haleakala 4.30".

Administrative Work, p.1 & 2.- Superintendent makes 5-day inspection trip to Haleakala section. Navy makes application to establish navy rest camp in Hawaii National Park which was promptly discouraged. Aerial mapping of Island of Hawaii taken up with Director and commander of 7th Air Force.

Research & Observation, p.2.- No unusual disturbances reported either for Kilauea volcano or Mauna Loa.

Ranger Service, p.3.- Trip made to summit of Mauna Loa and four days spent in repairing telephone line between 10,000 ft. and summit. Shelter houses supplied with lamps and fuel for oil stoves; assisted maintenance division part of month.

Maintenance Division, p.3.- Work of rehabilitation of quarters continued and considerable road work accomplished.

Forest Protection, p.3.- In Kilauea a total of 123 goats was destroyed, and at Haleakala 37.

Interpretation, p.4.- At Kilauea 11 illustrated lectures were given in the park with attendance of 587; 4 conducted trips with attendance of 73.

Travel, p.4.- At Kilauea there were 39,906 visitors, of which 10,523 were in the armed forces, and at Haleakala these figures were 1,589 and 221.

Visitors, p.4.- Lt. General Joseph Stilwell was the most prominent visitor to the park during the month.

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

August 21, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of July, 1946:

Introduction

Receptions and visitors opened the month and opportunities were provided whereby the newcomers met many groups of Island people. On the third Hick Lyoucrgus gave a fine dinner at the Hilo Hotel for the incoming superintendent to which he had invited fifty outstanding business and professional men whom it was a pleasure to meet. Among the many visitors calling at the office to get acquainted were Land Commissioner Marks, who made a lengthy visit, Mr. Hay, Assistant Manager of Olsa Sugar Plantation, Mr. L. W. Bryan, Territorial Forester, Representative Edward V. Isaac (California) was entertained jointly with Mr. and Mrs. Oberhansley by County Chairman and Mrs. Clem Akins to dinner at the Volcano House the evening of the 20th. Mr. Isaac had been a member of the congressional observers at the last Bikini atomic bomb test. He was also guest of honor together with the Oberhansleys at a luau given by the Akinas in Hilo on the 22nd where the proverbial hospitality of the islands was in evidence. The superintendent also had a visit with Judge Carlsmith and son at his office. A change in command at K.M.C. occurred on July 31 when Lt. Col. P. H. Wollaston was transferred to the mainland. He is succeeded by Lt. Col. Warren King.

General Weather Conditions

Maximum and minimum temperatures at Kilauaea headquarters were 79° and 51°. At Haleakala ranger station these recordings were 72° and 44°. Total rainfall at Kilauaea was 8.29" and at Haleakala 4.30". Some good rains at Kilauaea kept our water supply up well up over the worry line.

Administrative Work

During the month the superintendent made numerous inspections on foot of the trails in the Kilauaea section for the purpose of determining what maintenance work has to be on them. On the 17th in company with Foreman Quick he went to Haleakala to make a thorough inspection of that section, a full report of which has been made. He was conducted on a two day tour of the crater and to several points of interest on the Island. A glance at the records reveals that this is the first time in ten years that a superintendent of the park has been inside Haleakala Crater. The Navy Air Station at Hilo provided plane transportation over and Utility Squadron 11 on Maui generously came through with transportation

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for the return trip as well as providing side trips over Haleakala, Mauna Kea and Mauna Loa.

Navy Commanders Irwin and White from Oahu called in regard to the possibility of establishing a Navy Rest Camp in the park. Such a measure was promptly discouraged and a site in the Olan Forest Reserve at an altitude of slightly over 3500 feet, about three miles outside the park, was suggested to them. That particular site is one of four which Land Commissioner Marks had mapped when the possibility of moving R.M.C. was discussed.

Consultation was had with Colonel Patterson and Capt. Churchill of the 7th Air Force concerning aerial mapping of Hawaii Island. As a result of this conference letters were written by this office to the Director and to General White of the 7th Air Force asking that the mapping job be done.

Two representatives of the University of Hawaii called on the 23rd to investigate the possibilities of our cooperation in establishing a summer school for mainland teachers, about which project we have had some fairly recent correspondence with the President of the University of Hawaii.

Research and Observation

As in the preceding month, considerable steaming was observed over Makuawewee in July. During the latter part of the month the steaming was of sufficient volume to be easily observed at park headquarters. Observations from the rim of Makuawewee on July 23 showed both steam and dark fume escaping. During the last week of the month landslides from the west wall of Halemauuanu were frequent. Northerly tilt, which started on May 20, continued during July with about the usual seasonal value. There was no accumulation of tilt in the E-W direction during the month. A distinct east tilt occurred from July 16 to 21 and was followed by a westerly tilt of like amount.

The Mauna Loa seismograph was overhauled during the month, consequently no figures are available as to the number of seismic disturbances for that station. The partial record indicates that there were more Mauna Loa than Kilauea shakes. Forty-four shakes were recorded at Kilauea.

The volcanologist completed the statistical portion of the second quarter Volcano Letter and sent it to the publisher. As time permitted he worked on compiling temperature records for the past 30 years.

Geologist Powers spent the major portion of his time on the usual seismograph routine; as time allowed he worked on old tilt records, attempting to find a quantitative expression of seasonal changes. He gave talks to the Hilo Rotary Club and to the American Veterans Comintern on the possible warnings of arrival of dangerous sea waves. He also inspected the Kona seismograph on the 24th.

Selective Service assignee Guy C. Omar was released during the month and left the park on July 30 en route to the mainland.

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Ranger Service

Somewhat more favorable circumstances attended the ranger activities during July than during June, not quite as much time being spent with the maintenance division. The ranger staff had one meeting during the month to discuss the problems of protection and other work. Ranger-in-Charge Hjort visited the Kilauea section on July 8 and 9. The Chief Ranger accompanied the Superintendent on an inspection trip through some sections of the park. The ranger division made one trip to the summit of Mauna Loa mainly for the purpose of repairing the telephone line between Pun Ulaula (10,000 feet) and Mokawaovee. The line was in such bad repair that the four days spent on the job were not sufficient to complete it. The shelter houses were supplied with lamps and fuel for the oil stoves. Ranger Medeiros spent some time on telephone line maintenance at headquarters area. One cattle enclosure fence that needed repairing was fixed during the month.

Maintenance

The maintenance division continued to attack quarters rehabilitation problems with paint and sanding machines and two houses were completed during the month. Patching of section 3A of Mamalahoe Highway is well underway. The crusher was started and about 60 yards of rock crushed at a cost of about \$2.25 per cu. yard. That section of the road from park headquarters to the Kilauea entrance has deteriorated to the extent that it is necessary to seal coat almost the entire surface to prevent water from percolating through and destroying the sub-base. Grass was cut on the shoulders of this highway.

At the Thurston Lava Tube, where the new concrete bridge was built recently, the trails and premises were given a thorough cleanup which has improved the appearance of this beautiful spot 100%. Dead ferns were cut out and trails freed of growth. There remains only the putting up of a guard rail on the bridge to make the project complete in every detail. It is a job we are proud of.

Routine maintenance of grounds around headquarters and public picnic areas was carried out, as well as routine janitor work, roadside cleanup and servicing of public comfort stations.

Forest Protection

A local goat contractor made one drive in the Mauna Loa section during the month, removing 101 goats. Rangers destroyed 22 goats in the Kilauea section and 37 were destroyed at Haleakala.

Fire Protection

The annual fire hazard inspection at Kilauea headquarters was made on July 9 and the annual report covering it was made and sent to the Regional Office July 12. The Hilina Pali road was closed to visitors throughout the month.

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Protection General

Ranger Medeiros spent some time disarranging names, initials, etc., made with rocks on the floor of the Keanakakoi Crater. The surface of this lava has the characteristic pahoehoe thin skin with a weak vesicular layer beneath. The rocks used for name writing break the skin so that the names are visible after the rocks are removed.

Insects and Tree Diseases

Some progress was made on the check list of insects of Hawaii National Park. Ranger Davis reports that a few Eupelmid parasites emerged while he was on Mauna Loa but died before he returned. Additional specimens will have to be obtained in order to continue the parasitization studies of the fern weevil.

Use of Park Facilities by the Public

Use of picnic grounds at Bird Park continues to be heavy. On one week-end patrol 11 cars were seen at these two small areas.

Hawaiian Tours and Travel Service brought six groups into the park during the month. Ordinarily Mr. Howard K. Morris, Manager, notifies us about a week in advance of his tours so that we can schedule a program for these visitors upon their arrival in the park. The number in each tour group is usually 24 but inadequacy of accommodations at one or more of their overnight stopping places required reduction to 12 persons on some of the tours. Ordinarily these tours remain in the park from noon on the day of arrival until about 9:00 A.M. the following day. Arrangements have been made to give these tour visitors an orientation talk and interpretive talk at the Observatory. From all indications they are very much pleased with this service.

Interpretation

The scheduled interpretive program remained unchanged, there being five scheduled programs for the month. In addition six special illustrated talks were given at the Observatory lecture hall and two outside the park. At Kilauea two groups were conducted on nature hikes and at Haleakala overnight trips were made through the crater by Park Warden McCall with a group of 42 boy scouts.

Travel

At the Kilauea section there were 29,906 visitors, of which 10,523 were in the armed forces, and at Haleakala these figures were 1,589 and 221.

Visitors

Lt. General Joseph Stillwell was the most prominent visitor to the park during the month.

Frank R. Oberhansley,
Superintendent.

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

August 2, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Report of Observatory for month of July, 1946.

As in June, considerable steaming was observed over Makuaweoweo in July. During the latter part of the month the steaming was of sufficient volume to be easily observed at Park Headquarters. Observations from the rim of Makuaweoweo on July 23 showed both steam and dark fume escaping.

During the last week of the month landslides from the west wall of Halemaumau were frequent.

Northerly tilt, which started on May 30, continued during July with about the usual seasonal value. There was no accumulation of tilt in the E - W direction during the month. A distinct east tilt occurred from July 16 to 21 and was followed by a westerly tilt of like amount.

The Mauna Loa seismograph was overhauled during the month, consequently no figures are available as to the number of seismic disturbances for that station. The partial record indicates that there were more Mauna Loa than Kilauea shakes. Forty-four shakes were recorded at Kilauea.

Work of R.H. Finch, Volcanologist. The statistical portion of the second quarter Volcano Letter was completed and sent to the publisher. Work on compiling the temperature records for the past 30 years took up most of his spare time.

Work of H. A. Powers. The usual seismological routine took up most of his time. As time permitted, he worked on old tilt records, attempting to find a quantitative expression of seasonal changes. Talks were given to the Hilo Rotary Club and to the American Veterans Committee on the possible warnings of arrival of dangerous sea waves. He inspected the Kona seismograph on July 24.

Work of Burton J. Loucks. Most of the month was taken up in working on shop equipment and overhauling the Mauna Loa seismograph. The driving motor for the Hilo seismograph was repaired.

Work of Guy C. Omer. He was released during the month and left for Honolulu via Army transport July 30. He did some work on different manuscripts but most of his time was spent in packing.

R.H. Finch

R. H. Finch,
Volcanologist.

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August 14, 1946

MEMORANDUM for the Superintendent.

Subject: Chief Rangers Report for July, 1946.

000 - General

✓ Somewhat more favorable circumstances attended the ranger activities during July than during June. However, Ranger Hauanio spent more than half the month with the maintenance division and a considerable part of the ranger division work during July was of maintenance character.

The Chief Ranger was on sick leave 1 1/2 days.

The Chief Ranger attended the meeting of the Hilo Toastmasters Club on July 18.

100 - Administration

✓ The ranger staff had one meeting during the month to discuss problems of protection and other activities. Ranger-in-Charge Frank Hjort visited the Kilauea Section on July 8 and 9. The Chief Ranger accompanied the Superintendent on an inspection trip of some sections of the park.

200 - Maintenance

✓ The ranger division made one trip to the summit of Mauna Loa mainly for the purpose of repairing the telephone line between Puu Ulaula (10,000 feet) and Mokuaweoweo. The line was in such bad repair that the four days spent on the job ~~was~~ ^{were} not sufficient to complete it.

✓ The shelter houses were supplied with lamps, and fuel for the oil stoves.

✓ Ranger Medeiros spent some time on telephone line maintenance on the headquarters area.

✓ The one cattle enclosure fence that needed repairing was repaired during the month.

400 - Interpretation

The scheduled interpretive program remained unchanged, there being five scheduled programs for the month. In addition six special illustrated talks were

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✓ given at the Observatory lecture hall and two outside the park. At Kilauea two groups were conducted on nature hikes and at Haleakala, Ranger-in-Charge Hjort took a group of 42 Scouts through the Crater. See Statistical Report for full data.

✓ Hawaii Natural History Association met at the Observatory on July 26. Mr. Charles Schwartz gave an informative and entertaining illustrated talk on wild life photography. The executive committee met on the 10th of July and appointed Burton J. Loucks to fill the unexpired term of Treasurer.

Mr. Finch and the Chief Ranger consulted with Col. Patterson and Captain ✓ Churchill of the 7th Air Force concerning aerial mapping of Hawaii Island. As a result of this conference letters were written to Director Drury and to General White of the 7th Air Force asking that the mapping job be done.

500 - Use of Park Facilities by the Public

✓ Use of picnic grounds at Bird Park continues to be heavy. On one week-end patrol 11 cars were seen at these two small areas.

✓ Hawaiian Tours and Travel Service brought six groups into the park during the month. Ordinarily Mr. Howard K. Morris, Manager, notifies us about a week in advance of his tours so that we can schedule a program for these visitors upon their arrival in the park. The number in each tour group is usually 24, but inadequacy of accommodations at one or more of their overnight stopping places required reduction to 12 persons on some of the tours.

600 - Protection

✓ The Hilina Pali road was closed to visitors throughout the month.

✓ Rangers Davis and Hauanio completed the Annual Fire Hazard Inspection and submitted a report.

Patrols were made regularly on week-ends, but at other times only incidentally to other activities.

✓ Ranger Medeiros spent some time disarranging names, initials, etc. made with rocks on the floor of Keanakakoi Crater. The surface of this lava has the characteristic pahoehoe thin skin with a weak vesicular layer beneath. The rocks used for name writing break the skin so that the names are visible after the rocks are removed.

✓ Goat Contractor Hamili made one drive in the Mauna Loa section during the month, removing 101 goats. The rangers destroyed 22 goats during the month.

✓ A visitor reported cattle damage to the Ti plants in Bird Park and upon investigation four Keauhou Ranch cattle were found there. Manager Tom Lindsey was notified and he promptly removed them. Ranger Hauanio repaired the fence where the cattle had entered.

Gunnar O. Fagerlund,
Chief Ranger.

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

August 1, 1946

MEMORANDUM to the Superintendent,
Through the Chief Ranger.

Subject: Report of Activities for the month of July 1946.

A trip was made to the summit of Mauna Loa. Both shelters were supplied with fuel, lamps, and some other items, such as toilet paper, soap, matches, etc. About $4\frac{1}{2}$ miles of telephone line was repaired. This line is still to be completed. From 10,000 through headquarters the line is in service. During this trip I was accompanied by Ranger Davis and Hauanio Jr.

Some time was spent cutting fence posts and repairing a fence around a Koa plot at the Mauna Loa section; dismantling some names built with rocks by visitors in the Keanakakoi crater; repairing telephone line to cottage #1 and installing phone; preparing material for the Mauna Loa telephone line at Mauna Loa section built by Mr. Mackenzie, which was taken down.

Some of the utility car garages were installed with 5 gals. water pumps. One travel count was performed, and also a night duty at the Volcano House on a night dance and a week end duty.

Some time was spent shoeing park horses and mules to be used for a Mauna Loa trip, and also oiling some riding saddles. Painted a sign and installed it at the trail going in to the floor of the Keanakakoi crater. One patrol was performed covering the Chain of Crater road, Halemaumau, Bird Park, and the Hilo-Kau entrance.

A. B. Medeiros

A. B. Medeiros,
Ranger.

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JPD 9/15
Miss Mack

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

August 1, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger.

Subject: Monthly Narrative Report for July, 1946.

Maintenance

Rangers Medeiros, Hauanio and myself spent considerable time on preparation of animals and telephone line repair work on Mauna Loa between 12,000 and 13,000 feet elevation. A considerable number of poles were down, and the wire was broken in many places. Repairs were completed but we were not able to test the phone at the top.

The rest houses were inventoried and six bed springs were taken by pack animals from Jagers Cave to the Hui O'Pele summit shelter.

Nothing unusual was observed at the summit crater.

Some repairs were made to the fence at the horse corral.

Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	2	135	2 Hr.

Research

Some progress was made on the check list of Insects of Hawaii National Park.

A few Eupelmid parasites emerged while I was on Mauna Loa and died before I returned. Additional specimens will have to be obtained in order to continue the parasitization studies of the fern weevil.

Protection

Ranger Medeiros and the undersigned completed the annual fire hazard inspection on July 9th. (Kindly refer to report dated July 10th).

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On Saturday morning, July 27, Mr. H. Aller of Honolulu while camping at Hilina Pali reported what he thought to be a fire about ten miles south-west of Hilina Pali. Although this distance would put it beyond the park boundry the park staff was nevertheless alerted and an investigation made. No signs of smoke were found in the direction reported and it was assumed that either Pahala Plantation had burned some cane or Kapapala Ranch had burned some brush.

Miscellaneous

Two four hour shifts were spent on travel count.

I was on duty at the Volcano House dance on July 3.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis,
Ranger.

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



Wailuku Maui
Aug. 3, 1946

Memorandum to the Superintendent Frank R. Oberhansley:

The following narrative report for the month of July 1946 is respectfully submitted;

Superintendent Oberhansley paid this section of the park his first visit spending five days on the island. He was conducted on a two day tour of the crater and to several points of interest elsewhere on Maui. A quick ^{note} glance at the records reveals that this is the first time in ten years that a Superintendent has been inside Haleakala Crater.

General Foreman Herbert Quick accompanied the Superintendent on this trip.

Utility Squadron ⁻¹¹ came through with transportation again to haul the new boss and foreman home plus side trips over Haleakala, Mauna Kea, and Mauna Loa in that order before depositing them at the Hilo Airport.

General Weather Conditions in the Park.

Two good rains this month have relieved the long dry spell. Below the park the rain was much heavier than elsewhere so the neighboring ranches should be out of danger for a time.

Maximum temperature---72 degrees on the 4th and 31st
Minimum temperature---44 degrees on the 18th
Rainfall total-----4.50 inches
Clear days-----21
Partly cloudy days----4
Cloudy days-----6

Park Inspections

As stated in the introduction Superintendent Frank R. Oberhansley and General Foreman Herbert Quick inspected this section of the park this month.

Public Service Contractors

The Owners of the Maui Grand Hotel have again expressed a willingness to start taking people through the crater and providing some sort of service either at the summit or The Old Rest House. It is hoped that they will actually do something of this nature as frequent calls come in for this sort of service.

By all means! we can't run a concession there as many seem to expect us to do -

Ranger Guide Service

Forty-two Boy Scouts were conducted through the crater this month on Independence Day. The group went in Sliding Sands trail and out Malemau-u trail via the Bottomless Pit. The boys were very enthusiastic about the silverwords in bloom.

Increase or Decrease in Travel

Travel figures took a slight jump this month over last month.

There were about twice as many civilian visitors this month as July, 1945.

There were about thirteen times as many military visitors during July, 1945 as this month.

|| For some unexpainable reason the number of visitors coming up for sunrise has ||
about doubled this month. *How many?*

Accidents

Pfc. Hans Jensen, radioman stationed on Red Hill, had the misfortune of running the jeep he was driving off the road a short distance below the Observation Station. He was not feeling well and decided to drive down to the Air Station to see a doctor. He says he must have fainted as he has no recollection of running off the road.

Minor cuts about the head and a bruised back were the only injuries sustained by Jensen. The jeep was not damaged to any extent.

Destruction of Exotic Animals

✓ 37 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

August 1, 1946

MEMORANDUM for the Superintendent.

Subject: Foreman's Monthly Report.

The following is a summary of activities of the maintenance division for the month of July by account numbers.

307 - Quarters #16, 23 were completely rehabilitated in side during the month. Quarters #17 was given a coat of paint on the outside trim and several items of furniture were refinished. Work has been started on quarters #20.

202 - The crusher was started and about 60 yds. of rock crushed at a cost of about \$2.25 per cu. yard. Patching of section 3A Mamalahoa Highway is well under way. The section from park headquarters to the Hilo entrance has deteriorated to the extent that it is necessary to seal coat almost the entire surface to prevent water from percolating through and destroying the sub-base. Grass was cut on shoulders of Mamalahoa highway.

206 - Stripping of the forms and carrying out the debris and cleaning up the trail was completed during the month. There is yet the item of completing the guard rail to make this project 100% complete. *I assume this refers to Lava Sube. Cleanup improved appearance*

207 - Routine maintenance of grounds around headquarters and public picnic areas was carried out during the month. *100%*

209 - Installed two phones in Supt.'s quarters and repaired short in cable. Line #8 which most of the park residences are on is over loaded and steps must be taken in the near future to split this line up into about four circuits. *Yes!*

212 - Routine pumping of water to high tanks was carried out. The pump motor is getting to the point where it is likely to fall apart at any time. The undersigned is making every effort to install the new electric pump at the earliest possible date.

218 - Routine janitor work, roadside cleanup, and servicing of public comfort stations were carried out.

The park received the following pieces of equipment:

- 4 each Chev 4x4 Dump trucks.
- 1 " Caterpillar D-8 Angle Dozer tractor.
- 1 " 8-10 ton Buffalo Springfield tandem roller
- 1 " Ransom 145 concrete mixer
- 1 " Vibrator, cement.
- 1 " GMC 6x6 Compressor truck W/105 cubic ft. compressor mounted
- 1 " Caterpillar #12 motor grader.

The above items of equipment were transferred to the Park Service without an exchange of funds, and should not be charged against the National Park Service under the bill transferring 2½ million dollars of equipment without exchange of funds as it is in replacement of similar equipment loaned to the Army and worn out by them. This equipment was officially transferred to Hawaii National Park in May 1946.

Respectfully submitted,



Herbert J. Quick,
Foreman, Construction & Maintenance.

August 1, 1946

MEMORANDUM for the Superintendent,
Through the Chief Ranger and Naturalist.

Subject: Monthly narrative report for July, 1946.

Maintenance

Rangers Medeiros, Hauanio and myself spent considerable time on preparation of animals and telephone line repair work on Mauna Loa between 12,000 and 13,000 feet elevation. A considerable number of poles were down, and the wire was broken in many places. Repairs were completed but we were not able to test the phone at the top.

The rest houses were inventoried and six bed springs were taken by pack animals from Jaggers Cave to the Hui O'Pele summit shelter.

Nothing unusual was observed at the summit crater.

Some repairs were made to the fence at the horse corral.

Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	2	135	2 Hr.

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✓ Some progress was made on the check list of Insects of Hawaii National Park.

✓ A few Eupelmid parasites emerged while I was on Mauna Loa and died before I returned. Additional specimens will have to be obtained in order to continue the parasitization studies of the fern weevil.

Protection

✓ Ranger Medeiros and the undersigned completed the annual fire hazard inspection on July 9th. (Kindly refer to report dated July 10th).

✓ On Saturday morning, July 27, Mr. H. Aller of Honolulu while camping at Hilina Pali reported what he thought to be a fire about ten miles south-west of Hilina Pali. Although this distance would put it beyond the park boundry the

park staff was nevertheless alerted and an investigation made. No signs of smoke were found in the direction reported and it was assumed that either Pahala Plantation had burned some cane or Kapapala Ranch had burned some brush.

Miscellaneous

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I was on duty at the Volcano House dance on July 3.

Respectfully submitted,

Clifton J. Davis,
Ranger.

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



August 14, 1946

MEMORANDUM for the Superintendent.

Subject: Chief Rangers Report for July, 1946.

000 - General

Somewhat more favorable circumstances attended the ranger activities during July than during June. However, Ranger Hauanio spent more than half the month with the maintenance division and a considerable part of the ranger division work during July was of maintenance character.

The Chief Ranger was on sick leave 1 1/2 days.

The Chief Ranger attended the meeting of the Hilo Toastmasters Club on July 18.

100 - Administration

The ranger staff had one meeting during the month to discuss problems of protection and other activities. Ranger-in-Charge Frank Hjort visited the Kilauea Section on July 8 and 9. The Chief Ranger accompanied the Superintendent on an inspection trip of some sections of the park.

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The shelter houses were supplied with lamps, and fuel for the oil stoves.

Ranger Medeiros spent some time on telephone line maintenance on the headquarters area.

The one cattle enclosure fence that needed repairing was repaired during the month.

400 - Interpretation

The scheduled interpretive program remained unchanged, there being five scheduled programs for the month. In addition six special illustrated talks were

given at the Observatory lecture hall and two outside the park. At Kilauea two groups were conducted on nature hikes and at Haleakala, Ranger-in-Charge Hjort took a group of 42 Scouts through the Crater. See Statistical Report for full data.

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600 - Protection

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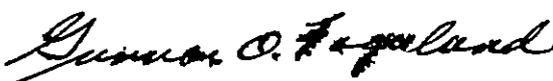
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Ranger Medeiros spent some time disarranging names, initials, etc. made with rocks on the floor of Keanakakoi Crater. The surface of this lava has the characteristic pahoehoe thin skin with a weak vesicular layer beneath. The rocks used for name writing break the skin so that the names are visible after the rocks are removed.

Goat Contractor Hamili made one drive in the Mauna Loa section during the month, removing 101 goats. The rangers destroyed 22 goats during the month.

A visitor reported cattle damage to the Ti plants in Bird Park and upon investigation four Keauhou Ranch cattle were found there. Manager Tom Lindsey was notified and he promptly removed them. Ranger Hauanio repaired the fence where the cattle had entered.


Gunnar O. Fagerlund,
Chief Ranger.

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		
	Interpretive	Administrative	Other
Permanent			3
Temporary			

July

Month

1946

Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	6 autos	22	2 hours
Walks or Hikes	4	73	4 hours
Ruins or Hist. House			
Other			
Total	4	73	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	11	587	1 hour
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	11	587	

ATTENDED INTERPRETIVE STATIONS	DAYS
Haleakala Observation Station	
(Give Name or Type)	Total

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	31	4,000	1/4 Hour
Kipuka Puanui	31	2,000	"
Tree Molds	31	400	"
Observatory		2,000	"
Silversword Trail (Haleakala)		150	"
(Give Name or Type)	Total	8,550	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	2	325	1 hour
Displays and Exhibits			
Replies to Inquiries			
Other			

9,535

Total Receiving Interp. Serv.

41,495

Total Number Visitors to Area

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

NAME James O. Fogeland
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.)

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

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FILL OUT ONLY THOSE BLOCKS THAT APPLY

EXPLANATION OF TERMS USED

"INTERPRETIVE" PERSONNEL ARE NATURALISTS OR RANGER NATURALISTS, HISTORIANS, AND HISTORICAL AIDES.
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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

10-23
(May 1929)
G-7410

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

FILE NO.

Monthly Report for June, 1946

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building



July 22, 1946.

MEMORANDUM for the Director.

I have just read with much interest the report of activities in Hawaii National Park for the month of June 1946 and am pleased to note the progress that has been made since my inspection of the Park in April.

The report shows that many of the needed improvements have been started and the fine cooperation between the ranger and maintenance organizations. Acting Superintendent Fagerlund has been able to see and understand things to be done and has had the fine cooperation of all employees. Team work, which was noticeably lacking previously, has been developed and I am certain will continue under the able direction of Superintendent Oberhansley.

It was a real pleasure to know that our organization in Hawaii National Park is now functioning in accordance with Service standards.

(SGD) O. A. TOMLINSON

O. A. Tomlinson,
Regional Director.

cc: Supt., Hawaii.

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Summary of June, 1946 4-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- New superintendent arrives June 27 to take up his duties.

Weather, p.1.- Precipitation at Kilauea 3.28"; at Haleakala 0.36".

Administrative Work, p.1.- 1948 preliminary estimates completed and forwarded to Regional Office.

Research & Observation, p.2.- Considerable more earthquakes recorded at Kilauea than at Mauna Loa, 64 and 35, respectively. Several spells of conspicuous fuming noted over Mauna Loa.

Ranger Service, p.2.- Ranger force continued to assist in maintenance work in a big way.

Maintenance Division, p.2.-3.- Rehabilitation of Quarters Nos. 16 and 17 completed and much miscellaneous urgent work accomplished.

Surplus Property, p.3.- Park has received by direct transfer without exchange of funds from the Army much needed equipment valued at approximately \$4,000.

Forest Protection, p.3.- In Kilauea a total of 151 goats and 2 pigs were eliminated, and at Haleakala 56 goats.

Interpretation, p.4.- At Kilauea 10 illustrated lectures were given in the park with attendance of 622; 5 conducted trips with attendance of 462.

Travel, p.4.- At Kilauea there were 33,584 visitors, of which 9,395 were in the armed forces, and at Haleakala these figures were 1423 and 317.

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

July 16, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of June, 1946:

Introduction

The Superintendent arrived in the park on June 27 after having visited with territorial and federal officials and other prominent people in Honolulu from June 23 to 26 inclusive. Mr. Nick Lyourgus and Chief Ranger Fagerlund also introduced the Superintendent to several key individuals in Hilo upon his arrival there. The following evening the entire park personnel gave a fine dinner reception for the malahinis at the Volcano House. The remaining time was devoted to getting acquainted with the personnel and becoming oriented. There seems to be an atmosphere of unity and friendly cooperation throughout and manifest enthusiasm on every hand toward getting things done. Our entrance on duty in this new assignment has been most pleasant and we look forward to continuing and strengthening the friendly relationships existing between this Service and the surrounding communities.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 71.4° and 49°. At Haleakala ranger station these recordings were 72° and 42°. Total rainfall at Kilauea was 3.28" and at Haleakala 0.36". With several good rains during the month, our water tanks, which were getting perilously low, were fortunately replenished.

Administrative Work

The Chief Ranger continued to serve as acting superintendent until the arrival of Mr. Oberhansley on June 26. The 1948 preliminary estimate was prepared and forwarded to the Regional Office. A meeting of the park staff was held on June 10. A follow-up inspection of the enclosure fences on Kapapala Ranch was made towards the end of the month to determine whether or not the conditions of the grazing permit recently renewed for another year had been complied with. It was found that satisfactory work had been done on the fences and the cattle were being kept in proper bounds. Ranger-in-charge Hjort officially visited the Kilauea section on June 6. The Selective Service has delegated to this park another conscientious objector, Shinju Harry Kuniyoshi, who arrived on the 24th. His coming is timely as Assignee Omer is soon to be released.

RECEIVED AS FOLLOWS

Research and Observation

Mauna Loa had several spells of rather conspicuous fuming during the month. The usual amount of steaming was also observed on several days. Considerably more earthquakes were recorded at Kilauea than at Mauna Loa, or 64 and 35, respectively. There was practically no tilting in the North-South direction and a slight accumulation of westerly tilt during June. There was no movement at any of the cracks measured near the Halemaunau rim or along the Chain of Craters road.

Whenever time permitted, the volcanologist worked on old weather records, and considerable time was spent on correspondence and in consultation.

Geologist Powers spent most of his time in seismological routine. Whenever time permitted, he did research on tilt - computing, plotting and analysis.

Assignee Omer assisted in the seismological routine of the Observatory, did some janitor work, and worked on a manuscript dealing with the viscosity of lava.

Ranger Service

The rangers spent considerable time repairing fences at Bird Park, while at the horse paddock 70 fence posts were cut and set as replacements for posts that had rotted in the paddock fence. It was also necessary to replace some 100 yards of wire fencing around this paddock, leaving over 300 yards of fence line yet to be completed. Ranger Hauanio devoted most of his time after his return from a tour of duty at Haleakala on June 3 to working with the labor crew. Posts were set in the Thurston Lava Tube rear exit trail to prevent jeeps driving in. Two travel count days were put in, and the usual week-end duty performed as well as regular patrols. The splendid cooperation of the ranger force with the maintenance division has been most gratifying and has resulted in a good showing of work accomplished. However, we look forward to the time when it will be possible for the ranger force to carry on only ranger work, as there is plenty of it to be done. That will come and in the meantime their willingness to assist in maintenance work is a great help.

Maintenance

The maintenance division continued to function throughout the month decidedly in high. Rehabilitation of quarters #16 and #17 was completed; 12 man days were expended in maintaining grounds around headquarters building, public camp grounds, and superintendent's residence. One man day was spent in cleaning gutters on all buildings. This has to be done at least once a month in order to keep the gutters from overflowing and wasting water. Seven man days were spent in doing janitor work at headquarters, Observatory building, outside comfort stations, picnic areas, and roadside cleanup; six man days

RECEIVED AS FOLLOWS

were expended in hauling garbage, delivering kerosene and wood to employees' quarters. The mechanic spent four days servicing passenger-carrying vehicles, the balance of his time for the month being spent on pickups and road equipment.

Surplus Property

Considerable time was devoted by Foreman Quick to negotiations and conferences with the Army with a view to getting some much-needed equipment by transfer without exchange of funds. As a result of his diplomacy, the park has to date received equipment (the urgently needed kind) by direct transfer from the Army without exchange of funds valued at approximately \$4,000, while he has also been assured that the U.S. Engineers will very shortly turn over to the park construction equipment valued at approximately \$75,000, on the same basis.

Forest Protection

At Kilauea section 151 goats and 2 pigs were eliminated, and at Haleakala 56 goats were similarly disposed of.

Four halapepe (*Pleomele aurea*) were set out at Hilina Pali during the month and appear to be withstanding the drought very well.

Fire Protection

The Hilina Pali road was closed throughout the month because of the high fire hazard due to prolonged dry weather. Rangers Davis and Hauanio completed the Quarterly Fire and Sanitation Inspection. The shortage of CCl₂ fire extinguishers becomes more acute month by month. This, together with water shortage and an unserviceable fire engine, makes building fire protection rather uncertain. However, Kilauea Military Camp fire department is cooperatively standing by. A telephone has been installed at the Volcano House on park line #8 which will enable park residents to quickly relay a telephone call to K.M.C. should a fire occur outside of business hours.

Insects and Tree Diseases

Twenty-five amaumau (*Sadleria cyatheoides*) stipes were collected and prepared for the emergence of *Eupelmus epilamprops* Perkins, a Hymenopterous parasite of the fern weevil, *Syagrius fulvitarris*. The biology of this parasite is not known and it is desirable to know just how the weevil is parasitized and how effective it is.

Aphids collected from the various native hosts in the park have been identified by Professor Essig and two of them, *Macrosiphum granarium* and *Rhopalosiphum prunifoliae* are new records for the Hawaiian Islands.

The *Hibiscadelphus giffardianus* was visited on June 25 and was observed to be reinfested with the green-house thrips, *Heliothrips haemorrhoidalis*. No flowers were open and those that had opened between visits did not set seeds.

RECEIVED AS FOLLOWS

Interpretation

At Kilauea 10 illustrated lectures were given in the park, with an attendance of 622; 5 conducted trips with attendance of 462. At Haleakala one group of 12 Girl Scout leaders and executives were conducted through the crater on a three day trip, and two overnight trips were conducted for 11 Cub Scouts and one Den Father each trip.

Travel

At Kilauea there were 33,584 visitors, of which 9,395 were in the armed forces, and at Haleakala these figures were 1423 and 317.

Use of Park Facilities by the Public

Registry books installed at picnic areas are showing that visitor use of these areas greatly exceeds previously estimated use. It is not known exactly what percentage of picnic area users register, but the few observations made indicate that small groups register nearly 100 per cent but large groups of 50 or more people may register no more than 25 per cent. The three picnic areas are inadequate on week ends, making it necessary for many visitors to picnic along roadsides. A total of 794 visitors registered at the picnic areas during the month.

Concessioners

The Volcano House operated at full capacity during the month, with many visitors unable to get reservations. Two very delightful dinner dances were held during June.

The authorized bus concessioner continued to meet with difficulties on account of Transilux busses persisting in forcing entry of their busses onto the park roads contrary to park regulations.

Visitors

Dr. Dilworth Jensen, Entomologist, and Drs. Holmes and Hendrix, pathologists at the University of Hawaii, were visitors to the park during the month. Dr. Jensen had a brief visit with the superintendent, whom he knew in Utah.

Frank R. Oberhansley,
Superintendent.

Good
70

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

July 8, 1946

MEMORANDUM for the Superintendent,

Subject: Chief Ranger's Report for Month June, 1946

000 - General

With Ranger Hauanio assigned to the maintenance division, Ranger Medeiros at Haleakala part of the month and the Chief Ranger serving as Acting Superintendent the ranger division was seriously handicapped throughout the month. Many jobs must necessarily be postponed while attention can be directed only to the most urgent ones.

100 - Administration

✓ The Chief Ranger served as Acting Superintendent and Ranger Davis as Acting Chief Ranger until June 26. Superintendent Oberhansley arrived on that day and the Chief Ranger accompanied him on some inspections.

✓ Ranger in Charge Frank Hjort officially visited the Kilauea Section on June 6.

✓ The 1948 preliminary estimate was prepared and forwarded to the Regional Office.

Revision of the Circular of General Information was completed and sent to the Regional Office.

✓ A meeting of the Park staff was held on June 10.

✓ After getting definite assurance from Mr. Bradford Sumner, Kapapala Ranch Manager, that he would maintain enclosure fences the grazing lease was renewed to C. Brewer and Company for one year. Inspections of the enclosures were made toward the end of the month and it was found that Mr. Sumner was fulfilling his promise to repair the fences. At the end of the month the largest enclosure fence had been repaired with the addition of one strand of wire which should keep the cattle out.

The Chief Ranger was on ranger duty two week ends during June.

200 - Maintenance

✓ The rangers spent considerable time repairing fences at Bird Park, horse paddock, and cattle enclosures.

✓ A day was spent in cleaning the Observatory.

300 - Activities of other Agencies in the Park

Transilux busses continued to violate general regulations Sections 2.31 b and 2.35. Embarrassing situations occur when groups that have previously arranged for guide service arrive in Transilux busses.

There were two dances at the Volcano House during June.

400 - Interpretation

The scheduled interpretive program remained unchanged, consisting of one illustrated talk each week. Hawaii Tour and Travel Service brought four groups into the Park during the month. Ordinarily these tours remain in the park from noon on the day of arrival until about 9:00 a.m. the following day. Arrangements have been made to give these tour visitors an orientation talk and interpretive talk at the Observatory. From all indications they are very much pleased with this service.

With the ending of the school year several school groups visited the Park and were given interpretive service. The largest of these was the Hilo High School Senior class of 400.

See Statistical report for complete data on interpretive services given.

Ranger Davis set out four Halapepe trees (*Pleomele aurea*) near Hilina Pali shelter and he reports that they are doing well. Davis is bringing the rare tree propagation project to a temporary halt in view of probable personnel shifting.

The aerial mapping project received a "shot in the arm" as a result of Dr. Jagger's conference in Honolulu with officers of the Seventh Air Force. The Chief Ranger wrote to Captain Churchill soliciting a conference with representatives from the Seventh Air Force.

See Ranger Davis' report on entomological research.

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

500 - Use of Park Facilities by the Public

Registry books installed at picnic areas are showing that visitor use of these areas greatly exceeds previously estimated use. It is not known exactly what percentage of picnic area users register but the few observations made indicate that small groups register nearly 100 percent, but large groups of 50 or more people may register no more than 25 percent. The three picnic areas are inadequate on week ends, making it necessary for many visitors to picnic along roadsides.

Two man days were spent on travel count.

600 - Protection

The Hilina Pali road was closed to visitor use because of the high fire hazard during the prolonged dry weather.

Rangers Davis and Hauanio completed the Quarterly Fire and Sanitation Inspection. The shortage of CCl₂ fire extinguishers becomes more acute monthly. This, together with water shortage and an inoperative fire engine makes building fire protection rather uncertain. However, Kilauea Military Camp fire department is cooperatively standing by. A telephone was installed at the Volcano House on park line #8 which enables park residents to call the Volcano House. In event of fire, the message can be relayed from there to KMC.

Posts were set at the entrance to Thurston Lava Tube Trail to prevent entrance of Jeeps.

Two pigs and 151 goats were eliminated during the month. Jack Hamel's goat driving contract expired as of June 30.

Gunnar O. Fagerlund
Gunnar O. Fagerlund,
Chief Ranger

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 June
Interpretive Administrative Other Month
Permanent 1 2 1946
Temporary Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	1	400	2 Hours
Walks or Hikes	4	62	8 Hours
Ruins or Hist. House			
Other			
Total	5	462	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	10	622	1 Hour
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	10	622	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
Haleakala Observation Station	30	700	1/2 Hour
(Give Name or Type) Total			

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube Trailside Exhibit	30	3,000	1/2 Hour
Kipuka Puaulu " "	30	1,500	1/2 Hour
Tree Molds " "	30	300	1/2 Hour
Observatory	26	1,500	1/2 Hour
Silversword Trail (Haleakala)	30	1,000	1/2 Hour
(Give Name or Type) Total	146	7,300	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	1	15	1 Hour
Displays and Exhibits			
Replies to Inquiries			
Other			

9,099

Total Receiving Interp. Serv.
35,007

Total Number Visitors to Area
(includes Haleakala)

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

NAME Gunnar O. Fagerlund
TITLE Chief Ranger

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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

July 3, 1946

MEMORANDUM for the Chief Ranger

Subject: Monthly narrative report for June 1946.

100 - Administration

✓ Ranger Medeiros returned from a tour of duty at Haleakala on June 3.

✓ One ranger meeting was held during the month.

Several letters of transmittal were prepared to accompany insect material that was being sent in for identification.

200 - Maintenance

Ranger activities were as follows:

- ✓ (a) Repairing Bird Park fence.
- (b) Installing telephone line and telephone at the Volcano House for direct communication to park office on line 8.
- ✓ (c) Setting posts in the Thurston Lava Tube rear exit trail to prevent jeeps from driving in.
- ✓ (d) Repairing horse paddock fence line
About 70 fence posts were cut and set as replacements for fence posts that had rotted. It was also necessary to replace about 100 yards of wire as it was no longer serviceable. About 300 yards of fence line remains to be completed.

✓ Ranger Hausanio devoted most of his time to working with the labor crew.

400 - Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend</u>	<u>Duration</u>
Observatory	6	397	5 Hrs.
Y.M.C.A.	1	15	1½ Hrs.
<u>Tours</u>	1	119	2½ Hrs.
<u>Hikes</u> (Bird Park)	1	28	1½ Hrs.

430 - Research

Twenty five *amaumau* (*Sadleria cyathocides*) stipes were collected and prepared for the emergence of *Epelmus epilamprops* Perkins, a Hymenopterous parasite of the fern weevil, *Syagrius fulvitarris*. The biology of this parasite is not known and it is desirable to know just how the weevil is parasitized and how effective it is.

Aphids collected from the various native hosts in the park have been identified by Professor Essig, and two of them, *Macrosiphum granarium* and *Rhopalosiphum prunifoliae* are new records for the Hawaiian Islands.

The *Hibiscadelphus giffardianus* was visited on June 25th and was observed to be reinfested with the green-house thrips, *Heliothrips haemorrhoidalis*. No flowers were open and those that had opened between visits did not set seed.

600 - Protection

The quarterly Fire and Sanitation Inspection was completed on June 11 by Ranger Hauanic and the undersigned. (Kindly refer to report dated June 11th.)

Since our fire truck is not functioning arrangements were made with KMC to stand by in case of a fire. The Military Camp has been most cooperative.

Transilux busses continue to come into the park contrary to park regulations. If the present regulations are not applicable they should be revised to make them effective as our park roads were not built for an influx of large commercial busses. This influx might constitute a menace to other park visitors, especially when more than one company is operating.

While on patrol recently KMC horses and riders were observed within the Bird Park picnic site areas. The soldier in charge of the party was informed of the rules and regulations and requested to take his party back to the bridal trail and conform to the rules hence forth.

600 - Protection (Cont'd)

A total of 2 pigs and 151 goats were eliminated during the month.

Four halapepe (*Pleomele Aurea*) were set out at Hilina Pali during the month and appear to be withstanding the drought very well.

Miscellaneous

A total of 794 visitors registered at the picnic areas during the month and are summarized as follows:

Summer Camp	93	visitors
Namakani Paio	8	"
Bird Park (a)	195	"
Bird Park (b)	498	"
	Total.794	"

The actual numbers is probably greater as the present areas are inadequate during the week ends, and those who are unable to picnic in these areas are using unauthorized areas. Ranger Medeiros has suggested that we develop the Mauna Loa Truck Trail as a possible remedy.

Two man days were spent on travel count.

Dr. Dilworth Jensen, Entomologist and Drs. Holmes and Hendrix, pathologists at the University of Hawaii were recent park visitors. Dr. Jensen chatted briefly with Superintendent Oberhansley whom he knew in Utah.

Respectfully submitted,

CLIFTON J. DAVIS
Acting Chief Ranger

d

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

July 3, 1946

MEMORANDUM for the Superintendent,

Subject: Foreman Construction - Maintenance Monthly Report

The following is a summary of the activities of the maintenance division during the month of June by account numbers.

- 201 ✓ 55 man days were expended in rehabilitating quarters # 3, #17, #16.
- 202 ✓ 12 man days were expended in minor repairs to Mamalahoa highway and repairs to road equipment.
- 207 ✓ Six man days were expended in maintaining grounds around headquarters building, public camp grounds, and Superintendents residence.
- 212 ✓ One man day was expended in cleaning gutters on all buildings. This item has to be done at lease once a month in order to keep the gutters from overflowing and wasting water.
- 217 ✓ The mechanic spent four days servicing and repairing passenger-carrying vehicles.
- 218 ✓ Seven man days were expended in doing janitor work at headquarters building, Observatory, outside comfort stations, picnic areas, and roadside cleamp.
- 226 ✓ Six man days were expended in hauling garbage, delivering kerosene, and wood to employees quarters.
- 103. Three man days were spent by the mechanic repairing car #1-13043. This car is assigned to the Observatory.
- 101 ✓ Three man days were spent by the mechanic repairing car #1-13042.

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

97) d-1r
L. Q. L. H. W. S. M. S. P. S.
20
✓ Surplus Property

The park has to date received equipment by direct transfer from the Army without an exchange of funds valued at approximately \$4,000. We have also been assured that the engineers will very shortly turn over to the park construction equipment valued at approximately \$75,000.

Respectfully submitted,

Herbert J. Quick

HERBERT J. QUICK
Foreman Construction and Maintenance

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



Wailuku Maui
July 3, 1946

Memorandum to Acting Superintendent Gunnar O. Fagerlund:

The following narrative report for the month of June, 1946 is respectfully submitted;

Closing of the gate at Haleakala caused a great deal of comment on Maui but the longer hours enabling the visitors to see the sunset have brought forth few sunsetters. Evidently the most influential group here did the most complaining as the majority of people still prefer the sunrise.

As expected the number of violations in the park have jumped rapidly as soon as it was found that the checking station was removed. With the small crew and the enormous amount of work to be done here it is impossible to have someone at the summit the entire fifteen and a half hours the park is open each day.

General Weather Conditions in the Park.

Extremely dry weather here has caused the grass and other vegetation to become very inflammable thus increasing the fire hazard. Our water supply is adequate to carry us over any kind of spell with only one family using from it.

Maximum temperature-----72 degrees on the 1st, 2nd, and 14th.
Minimum temperature-----42 degrees on the 17th, 18th, and 25th.
Rainfall total-----0.36 inches
Clear days-----19
Partly cloudy days-----9
Cloudy days-----2

Labor Situation. The addition of temporary Ranger McCall to the staff of this section has been a great help. McCall stays at the summit so the observation station has been spick and span since his arrival.

Maintenance. Several man days were spent this month again in clearing the road of small slides and fallen rocks.

Improvements. The corral at Kapalaoa Cabin was repaired and enlarged this month so we can again stay there with animals and have a place to turn them out. Several years back a large cinder wash had covered a section of the fence. This section of the fence was removed and rebuilt in a location where it can not be covered.

A new gate was installed to replace the old one at the foot of Halemau-u trail and a watering trough with an automatic float was installed at Holua Cabin. All the mules not in use are now kept on the grass flats near Holua.

Flora. The silverswords are again in bloom in fairly large numbers in the crater.

Ranger Guide Service. One group of 12 Girl Scout leaders and executives were conducted through the crater on a three day trip.

Two overnight trips were conducted for 11 Cub Scouts and one Den Father each trip.

Increase or Decrease in Travel. Travel was light this month. There were about four times as many civilian visitors this month as this month last year. Military figures fell off to about one twentieth as much as last year.

Protection. A number of persons were apprehended for violations ranging from picking plants to hiking in the crater without a permit. Two letters have been written to the U. S. Attorney's office in Honolulu only to find that the Attorney is on the Mainland and no action can be taken until he returns. I have asked that Andrew H. Wong, U. S. Commissioner on Maui, be appointed to hear all petty cases and hope to get action soon.

Deatraction of Exotic Animals. 56 goats were killed in the crater this month. 3 mongooses were killed at Paliku Cabin.

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

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

July 7, 1946

MEMORANDUM for the Superintendent,

Subject: Report of Hawaiian Volcano Observatory for June 1946

✓ Mauna Loa had several spells of rather conspicuous fuming during the month. The usual amount of steaming was also observed on several days.

✓ Considerably more earthquakes were recorded at Kilauea than at Mauna Loa, or 64 and 35, respectively.

✓ There was practically no tilting in the North-South direction and a slight accumulation of westerly tilt during June.

✓ There was no movement at any of the cracks measured near the Halemaumau rim or along the Chain of Crater's Road.

Work of R. H. Finch

✓ Whenever time permitted work was done on old weather records. Considerable time was spent on correspondence and in consultation.

Work of H. A. Powers

✓ Most of his time was taken up by seismological routine. Whenever time permitted he did research on tilt - computing, plotting and analysis.

Work of B. J. Loucks

Until he gets the shop in order and needed repairs to the seismographs made, Mr. Loucks assists in seismological routine but very little. Two trips to Hilo were made - one to repair the Hilo seismograph and another to secure material.

✓ Work of Guy C. Omer

During the time he worked at the Observatory he assisted in the seismological routine, did some janitor work and worked on a manuscript dealing with the viscosity of lava.

R.H. Finch

R. H. FINCH
Volcanologist

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



July 2, 1946

Memorandum for the Superintendent,
Through the Acting Chief Ranger.

Subject: Report of Activities for the month of June, 1946.

A large proportion of my time was spent in cutting fence posts and repairing the horse paddock fence at Kipuka Ohaina areas, also a section back of the saddle room.

Some time was spent installing a telephone line to the hotel; a checkup on the telephone line to lava tube. At the lava tube trail a blockade was installed to keep cars from driving in. At the Hilina Pali and Chain of Craters road junction, a road "closed" sign was put up due to the very dry areas along that section.

One travel count was performed at the Hilo entrance. A checkup was made on the riding and pack equipment at the saddle room, also on the park mules and horses.

Some time was spent checking goats taken away by Jack Hamele. Repaired a section of fence at Kipuka Puaula.

The fence around a Koa plot at the Ohikea area is under repair by some of the Kapapala ranch men.

In the Kipuka Ki, some cattle were observed, and also in the Kipuka Ohaina. In the Kipuka Ohaina, the young Koa trees are being destroyed by cattle. Both the Kapapala and the Shipman's managers should be notified and asked to drive these cattle out.

One weekend duty was performed, making two patrols covering the Chain of Craters, Halemauau, Bird Park and the Mamalahoa roads.

Jagerlund
Please see me about this
D.

A. B. Medeiros
A. B. MEDEIROS
Ranger

Memorandum: to the Superintendent, Hawaii National Park

Subject: Short report of work done during June, 1946 by Guy C. Omer, Jr.

1. Rebuilt a wall-mounting telephone sub-set. Repaired bell, magneto, and replaced some wiring.
2. Installed two new telephone lines to the Hotel.
 - a) Added a spur to N.P.S. line #8 to the above repaired wall telephone which is now installed in hallway for added fire protection.
 - b) Installed a simple pair between the Hotel and a Hotel cottage back on the hill on orders. The two telephones used in this circuit were furnished by the Hotel Management.
3. Checked the condition of the Ainalou line by walking that spur. Trouble had been reported on this line, but had been repaired by Shipman
4. Checked condition of joint line between K.M.C. - Park Hdqts - C.C.C. Camp. It was formerly impossible for the Park Office to ring K.M.C. on this line. Found the trouble was caused by K.M.C. changing from common battery to local battery operation on their trunk. Removed a repeating coil and restored ringing service between the two boards.
5. Promoted three telephones from an Army officer who had better remain un-named. These included two field phones (EE-8) and one standard desk type hand-set with magneto bell-box. All three units checked and N.P.S. property cards made out for them.
6. Promoted $\frac{1}{2}$ mile of new field wire from another Army source. Returned an old empty field wire spool to complete this deal. This field wire was turned over to Mr. Quick for N.P.S. use.
7. Two shifts of traffic count at the Hilo Entrance
8. On trip to Honolulu, tried to find various radio and other communication gear that could be used by the Park. Spent over four days with the Army, Navy, Surplus Property Office, P.C.C., Honolulu Police Radio Engineer. Found the conditions for operation of the Kiluaea-Haleakala radio link. Found various radio equipment that could be used. Found several switchboards that could be used. Made arrangements to reprice this material to a decidedly lower figure.

I have made a full report of this trip (about ten pages of memos) to Mr. Quick, if you wish further details.
9. On leave about 5 days.
10. A little Observatory routine, but did not have much time this month because of telephone and other work.

Submitted

Guy C. Omer, Jr.
Guy C. Omer, Jr.
July 1, 1946

10-23
(May 1929)
6-7410

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

FILE NO.

MONTHLY NARRATIVE REPORT

MAY, 1946

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 employes 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.

Summary of May, 1946 5-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- Month of unusually warm, dry weather produced water shortage.

Weather, p.1.- Precipitation at Kilauea 1.95"; at Haleakala 0.64".

Administrative Work, p.1.- Grazing lease to C. Brewer & Co. renewed for one year. Work of completely revising the circular of general information was finished and the new copy forwarded to Regional Office for approval and transmittal to Director. Work on preliminary estimates for 1948 fiscal year was begun.

Research & Observation, p.2.- Seismographs during May recorded 65 earthquakes at Kilauea and 68 at Mauna Loa. Two of the shakes were perceptible. There has been an increase in earthquake frequency during recent months, though neither the number of shakes nor their distribution can as yet be taken as distinct signs of impending activity.

Ranger Service, p.2.- Ranger staff largely engaged during the month assisting the Maintenance Division in important work.

Maintenance Division, p.3.- Rehabilitation of Quarters Nos.1 and 3; minor road repairs; completed Thurston Lava Tube bridge; maintained equipment and performed routine work.

Forest Protection, p.3.- In Kilauea a total of 31 goats and 10 pigs destroyed.

Police Protection, p.4.- Transilux Bus Co. continues to operate commercial busses through the park in direct violation of Section 2.31(b) of General Rules and Regulations.

Haleakala Section, p.4.- Checking station discontinued; temporary ranger engaged to serve until end of current fiscal year; park visiting hours extended from 4:30 A.M. to 8:30 P.M.

Travel, p.5.- At Kilauea there were 29,847 visitors of which 10,453 were in the armed forces, and at Haleakala these figures were 1,219 and 483.

RECEIVED AS FOLLOWS

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

June 11, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of May, 1946:

Introduction.

With the entire month unusually dry and warm, it spurred along painting and rehabilitation work on employees' quarters in a highly satisfactory manner, while roadside cleanup was accomplished in ideal weather. A marked co-operative spirit was manifested by all departments in such work. While the weather was perfect for jobs like the foregoing, it nevertheless brought the problem of water supply vividly home to us and the imperative necessity of providing larger reservoir storage capacity that will be of sufficient volume to insure adequate fire protection and domestic use in dry spells. K.M.C. has been hauling water throughout the month. The Volcano House at the end of the month probably did not have more than three weeks supply available.

General Weather Conditions.

Maximum and minimum temperatures at Kilauea headquarters were 75° and 45°. At the Haleakala ranger station these recordings were 73° and 37°. The total rainfall at Kilauea was 1.95" and at Haleakala 0.64".

Administrative Work

The Acting Superintendent was on duty at Kilauea the entire month. He had several conferences with Mr. Bradford Sumner, Manager of Kaepala Ranch (C. Brewer & Company) relative to request of that company for renewal of its grazing lease for another year, which renewal we were reluctant to grant until we had definite assurance that they would fulfill the conditions of the lease which stipulated that fences should be maintained so cattle would be excluded from research plots, which has not been adequately done in the past, with the result that the value of these research plots has been greatly diminished through cattle breaking through the fences. The prospect for getting the fences fixed up we now feel is fairly good and the lease has been renewed for one more year.

Work of completely revising the circular of general information was completed by the Acting Superintendent and the copy has been forwarded to the Regional Director's office for approval and transmittal to the Director for printing. He also spent some time on photography; investigated and reported one automobile accident. Work on preliminary estimates for 1948 fiscal year was begun.

RECEIVED AS FOLLOWS

Research and Observation.

The number of earthquakes recorded during May was 65 at Kilauea and 68 at Mauna Loa. There has been an increase in earthquake frequency during recent months, though neither the number of shakes nor their distribution can as yet be taken as distinct signs of impending activity. Two of the shakes were perceptible. One which occurred at 6:36 P.M. May 19 was felt in Hilo as well as in headquarters area. Its origin was under Kilauea. The shake at 5:17 P.M. May 30 was widely felt in the Kau district. It originated under the east slope of Mauna Loa. There was a slight accumulation of southerly tilt during the month or opposite in direction from that which might be expected if activity at Kilauea were imminent.

There was but little movement at the cracks around Halemauau and along the Chain of Craters road.

In addition to attending to correspondence, working in the library, and taking part of the seismological routine, the volcanologist spent some time on a manuscript. On May 2nd he attended a luncheon in Honolulu to discuss a tidal wave warning service and returned to headquarters May 3.

Assignee Omer did some work on Volcanic Tremor and Volcanic Heat; assisted in seismological routine and did some janitor work at the Observatory.

Assistant Geologist Powers spent some time on the Hilo and Kona seismographs. He attended to most of the seismological routines. As time permitted he worked on tilt records.

Instrument Maker Loucks resumed work at the Observatory May 2. He made two trips to the Hilo seismograph; two days were spent in Kona overhauling the seismograph there. Several days were spent on synchronous motors and clocks for the seismographs. Whenever possible time was spent in putting the machines back into shape.

Ranger Service.

Some time was devoted by the Acting Chief Ranger to handling correspondence and organizational detail, but the ranger staff was largely engaged during the month in assisting the Maintenance Division in the following activities: Completing construction of the Thurston Lava Tube bridge; breaking up lettering formations on the floor of Keanakakoi crater; preparing and installing signs; preparing and installing registers at Bird Park, Camp Namakani Pao, and summer camp picnic areas; repairing telephone line at Mauna Loa. Ranger Hauanio devoted all his time during the latter part of the month to helping the Maintenance Division.

Ranger Medeiros left for Haleakala on the 9th and assisted the Ranger-in-Charge throughout the month, considerable of his time being spent on road work, clearing rocks and gravel from slides, hauling the material and patching a road to a garbage dump.

RECEIVED AS FOLLOWS

Maintenance.

The Maintenance Division put in a strenuous month. Rehabilitation of Quarters Nos. 1 and 3 was completed; nineteen man days were expended in making minor road repairs and repairing equipment; twenty-one man days were expended in completing construction of the Thurston Lava Tube bridge. The ranger force gave assistance in accomplishing this project. The grounds around headquarters and public camp grounds and picnic areas were maintained; sewer lines to two of the quarters were cleaned and three man days were spent in pumping water to high tanks. Maintenance to passenger carrying vehicles was made and other routine work, such as hauling garbage, janitor work, servicing outlying stations performed.

Mechanic Fujimoto left park headquarters at Kilauea on the 12th to repair one automobile and inspect other vehicles at the Haleakala section on Maui. He returned to headquarters on the 20th.

Foreman of Construction & Maintenance Quick spent the last week of the month preparing preliminary estimates of his department for the 1948 fiscal year.

Mr. Quick arranged with the Commandant of K.M.C. for the park to use the K.M.C. dump for all park and Volcano House rubbish. This saves much time that would otherwise be required to operate the inadequate park incinerator. He also, with the U. S. Engineers' representative, inspected the restoration of war damage in the Kau district, and that work is now 100% complete.

Forest Protection.

A total of 31 goats was destroyed at Kipuka Nene and Hilina Pali, and 10 pigs destroyed at Panahi.

At Kipuka Puuulu it was necessary to remove some native morning glory (*Ipomoea congesta*) from a small community of Opohe (*Urera sandwicensis*) as the vines were interfering with the growth of the latter.

Insects and Tree Diseases.

A simultaneous discovery of an unusually large aphid by Dr. O. H. Swesey and Acting Chief Ranger Davis was made on May 26 on the young bark of an indigenous host, *Osteomeles anthyllidifolia*, about six miles west of park headquarters. Colonies of these aphids were observed feeding on the young bark, and there was considerable "honey dew" secretion. It is believed this is the first record of an aphid feeding on the bark of a native tree in the Territory and that it might be the first record of a native aphid in the Hawaiian Islands. The aphids are being sent in to Professor Essig for identification.

Drought and mites have killed several of the younger *Erythrina monosperma* (wiilwili) seedlings at Hilina Pali and these are being replaced by *Pleomele aurea* (Halapepe) which can endure drought and are not affected by mites.

RECEIVED AS FOLLOWS

Police Protection.

Transilux Bus Company has resumed operations throughout the park in direct violation of Section 2.31(b) of General Rules and Regulations, which reads in part: "No person, firm or corporation shall engage in or solicit any businessin a park or monument without permission in writing from the Director." These violations are almost a daily occurrence and appear to be utter contempt and disregard for the rules and regulations of the Park Service.

Haleakala Section.

The checking station has been discontinued. Park visiting hours have been extended from 4:30 A.M. to 8:30 P.M., but it is reported comparatively few visitors have taken advantage of the evening hours to enjoy the sunsets. A temporary ranger has been employed to serve until the end of the current fiscal year, he having entered on duty May 22.

Mr. William Albee, official photographer for the Hawaiian Visitors Bureau, spent three days in the Haleakala crater taking pictures. Mr. Albee is traveling from island to island photographing points of scenic interest, using his family as "visitors" in the pictures.

The Territorial Board of Forestry and Agriculture has begun work on the fence from Pua Nianiau to Koolau Gap. The right-of-way requested by the board for a road in the park over which to haul the fence posts was not needed. The road has already been built on territorial land.

Interpretation.

There is an appreciable increase in requests for special interpretive services at Kilauea. The tour business has begun and frequent groups from the Hawaii Tour and Travel Service of Honolulu are arriving. Though the scheduled interpretive program amounted to only one lecture per week, the month brought many requests from schools, boys and girls organizations, and, as stated above, from Hawaii Tour and Travel Service, for special interpretive services.

At Kilauea 7 illustrated lectures were given in the park, with an attendance of 386; 2 conducted auto caravans with an attendance of 180; 3 conducted hikes with an attendance of 76.

The Acting Superintendent gave one illustrated talk on volcanoes at the Hilo Naval Air Station Officers Club, with an attendance of 40.

Ranger-in-Charge at Haleakala conducted a group of 10 girl scouts (executive and leaders) on a three day trip through the crater. The purpose of the trip was to familiarize the leaders with the crater in order that they, in turn, might conduct girl scout parties on future trips.

RECEIVED AS FOLLOWS

Travel.

At Kilauea there were 29,847 visitors, of which 10,453 were in the armed forces, and at Haleakala these figures were 1,219 and 483.

Accidents.

On May 25 about 11:00 P.M. one Sterling Vaughn met with an accident on one of the park roads when the left front wheel of the automobile he was driving came off while he was going around a bend. The man suffered pretty severe injuries, sustaining lacerations and bruises and possible nose and skull fracture.

Personnel.

Mr. Chisato Fujimoto, Mechanic (General Automobile Equipment) returned to his old position at this park May 1. He had transferred Sept. 7, 1942 to the U. S. Engineers. As we have been without a mechanic since his departure, he was warmly welcomed back.

Mr. Burton J. Loucks, Instrument Maker at the Observatory, also returned to his former position from which he transferred July 6, 1942 to the U. S. Navy Yard at Pearl Harbor.

Chief Clerk Kim left for a short stay in Honolulu May 22 to confer with the Civil Service Commission relative to personnel matters.

Miss Mack made her first visit to Haleakala on the 17th, going and returning by Navy plane. She spent five days as guest of the Hjorts and reports a grand time.

Visitors.

Mr. Edwin G. Arnold, Interior Department Territories Director,
Mr. Thomas Vance, Supt. of Institutions of Territory of Hawaii,
Commander Long, former Naturalist from Yellowstone.

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Gunnar O. Fagerlund,
Acting Superintendent.

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

June 6, 1946.

MEMORANDUM for the Acting Superintendent.

Report of the Hawaiian Volcano Observatory for May.

The number of earthquakes recorded during May was 65 at Kilauea and 68 at Mauna Loa. There has been an increase in earthquake frequency during recent months, though neither the number of shakes nor their distribution can as yet be taken as distinct signs of impending activity. Two of the shakes were perceptible. One which occurred at 6:36 p.m. May 19 was felt in Hilo as well as in Headquarters area. Its origin was under Kilauea. The shake at 5:17 p.m. May 30 was widely felt in the Kau district. It originated under the east slope of Mauna Loa. There was a slight accumulation of southerly tilt during the month or opposite in direction from that which might be expected if activity at Kilauea were imminent.

There was but little movement at the cracks around Halemaumau and along the Chain of Craters Road.

Work of R. H. Finch

In addition to attending to correspondence, working in the library, and taking part of the seismological routine, some time was spent on a manuscript. On May 2, I attended a luncheon in Honolulu to discuss a tidal wave warning service and returned to Hawaii National Park on May 3.

Work of Guy C. Omer

He did some work on Volcanic Tremor, and Volcanic Heat, assisted in seismological routine and did some janitor work at the Observatory.

Work of Howard A. Powers

Some time was spent on the Hilo and Kona seismographs. He attended to most of the seismological routine. As time permitted he worked on tilt records.

Work of B. J. Loucks

He resumed work at the Observatory on May 2. Two trips were made to the Hilo seismograph. Two days were spent in Kona overhauling the seismograph there. Several days were spent on synchronous motors and clocks for the seismographs. Whenever possible time was spent in putting the machine back into shape.

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

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

June 4, 1946.

MEMORANDUM for the Acting Superintendent.
Through the ^{Acting} Chief Ranger.

SUBJECT: Report of activities for the month of May, 1946.

Kilauea section - Sometime was spent on patrol - picking up signs to be repaired, and also dismantling name built with rocks in the Keanakakoi crater.

Haleakala section - A considerable amount of time was spent on road work, clearing rocks and gravel from slides. Hauling same material and patching a road to a garbage dump.

Sometime was spent on patrols and cleaning and hauling rubbish from the observation station, and also around the Utility area. Hauling fire wood from the Navy base and sawing it in small cuts.

A few days were spent in repairing cars with the help of Mechanic Fujimoto. Also helped Frank Hjort on park trails.



A. B. Medeiros
Park Ranger.

(Signed by M. Pestano
in absence of A.B. Medeiros)
(Permission given)

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

June 10, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Foreman's Monthly Report.

The following is a summary of activities of the Maintenance division during the month of May.

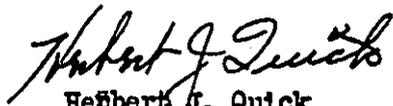
201. Fifty two man days were expended in rehabilitating quarters No. 1 and 3.
202. Nineteen man days were expended in this account in making minor road repairs and repairing equipment.
206. Twenty^{one}/man days were expended in this account in the construction of lava tube bridge. The ranger force gave assistance in accomplishing this project.
207. Six man days were expended in this account in maintaining the grounds around headquarters and the public camp grounds and picnic areas.
211. Three man days were expended in this account in cleaning of sewer lines at quarters No. 22 and 24.
212. Three man days were spent in pumping water to high tanks.
217. One man day was spent in repairing car No. 13026.
218. Ten man days were spent in cleaning office and servicing of public comfort stations.
226. Ten man days were spent in collecting garbage, delivering of kerosene to employees quarters.
103. Two man days were spent repairing car No. 13043. This vehicle was found to be in deplorable condition either from neglect or ignorance on the part of the drivers.
104. Four man days were spent repairing car No. 13032.

Mechanic Fujimoto left park headquarters May 12th to repair vehicle No. 13032 and inspect other vehicles located in that portion of the park, returning to park headquarters May 20, 1946.

One day sick leave was granted.

The undersigned spent the last week of the month preparing preliminary estimates of the 200 accounts for the 1948 fiscal year.

Respectfully submitted,



Herbert J. Quick
Foreman, Construction &
Maintenance.

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

June 5, 1946.

MEMORANDUM: For the Acting Superintendent.
Through the Acting Chief Ranger.

SUBJECT: Report and activities during the month of May.

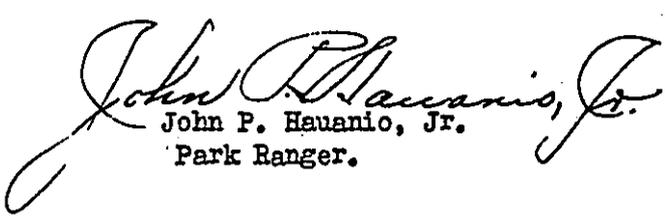
7 For the first week of the month, Ranger Davis and myself put out two days helping the maintenance division mix concrete to complete the lava tube bridge.

Worked at the paint shop and completed the Registration Boards. Installed them at Bird Park, Na Makani Paio and at the Summer Camp rest house.

For about the middle of the month, I was put on the maintenance division to help with the painting. Job was performed at Qtrs. 1, the former Christ cottage and painting was completed. Laborers are now starting on painting Chief Mechanic Fujimoto's home.

Week end duty was performed once during the month. Also checked on hunters at Kipuka Nene and at Hilina Pali. Telephone line at Hilo Entrance, which had been cut off, was installed back again.

Goats destroyed at Kipuka Nene and Hilina Pali section -- 31.
Pigs destroyed at Pauahi ----- 5.


John P. Hauanio, Jr.
Park Ranger.

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

June 2, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Acting Chief Ranger's narrative Report for May, 1946.

100 - Administrative

Ranger Medeiros left for Haleakala on May 9th and assisted Ranger-in-Charge, Frank Hjort throughout the month.

Some time was devoted to handling correspondence and organizational detail.

200 - Maintenance

Ranger activities were as follows:

(a) Assisting the Maintenance Division in constructing the Thurston Lava Tube bridge.

(b) Breaking up rock lettering formations on the floor of Keanakakoi crater.

(c) Preparing and installing signs.

(d) Preparing and installing registers at Bird Park, Camp Namakani Pab, and Summer camp picnic areas.

(e) Bird proofing west side of Observatory lecture hall.

(f) Repairing telephone line at Mauna Loa.

Assignee Omer devoted some time to checking telephone lines and repairing same. Ranger Hauanio devoted all his time during the latter part of the month to helping the Maintenance Division.

400 - Interpretation

<u>Talks</u>	<u>No.</u>	<u>Attend.</u>	<u>Duration</u>
Observatory	3	203	4 hrs.

430 - Research

A simultaneous discovery of an unusually large aphid by Dr. O. H. Swezey and the undersigned was made on May 26th on the young bark of an indigenous host, Osteomeles anthyllidifolia, in the vicinity of telephone pole number 770, about six miles west of park headquarters.

Colonies of these aphids were observed feeding on the young bark, and there was considerable "honey dew" secretion.

It is believed that this is the first record of an aphid feeding on the bark of a native tree in the territory and that it might be the first record of a native aphid in the Hawaiian Islands.

The aphids are being sent in to Professor Essig for identification.

Drought and mites have killed several of the younger *Erythrina monosperma* (wiliwili) seedlings at Hilina Pali and these are being replaced by *Pleomele aurea*, (Halapepe) which can endure drought and are not affected by mites.

600 - Protection

7 (Transilux bus company has resumed operations throughout the park in direct violation of Section 2.31 (b) which reads in part, "No person, firm or corporation shall engage in or solicit any business----- in a park or monument without permission in writing from the Director."

7 These violations are almost a daily occurrence and appear to be utter contempt and disregard for the rules and regulations of the Park Service.

The Koa plots were checked and found to have been invaded by cattle who have caused considerable damage to the reproduction.

Week end-motor patrols were made and several visitors warned about jettisoning waste material from moving vehicles and picking native shrubbery.

A total of ten pigs and 31 goats were disposed of.

3 At Kipuka Puauulu it was necessary to remove some native morning glory (*Ipomoea conjesta*) from a small community of *Ophe* (*Urera sandvicensis*) as the vines were interfering with the growth of the latter.

Miscellaneous

Since the registers were installed at the picnic site areas on May 21, a total of 251 people utilized these grounds.

Two man days were spent on travel count.

Ranger Hauanio was the proud father of a son, Matthew Makaio, born on May 31st.

7 Dr. O. H. Swezey, Consulting Entomologist of the H.S.P.A. and outstanding Lepidopterist of the territory was a visitor to the park during the latter part of the month. Both he and Mrs. Swezey are warm friends of the Park Service.

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Acting Chief Ranger.

Memorandum: to Mr. G. O. Fagerlund, Superintendent, Hawaii National Park

Subject: Monthly report, Guy C. Omer, Jr., May, 1946

A. Telephone work

1. Walked H.N.P. line #10, found five breaks. (mauka section)
2. Replaced four poles and restrung wire on fifth pole (with Davis)
3. Walked H.N.P. line #10 from V.H. Dorm to English's house, cut brush and looked for source of bad hum.
4. Replaced receiver shell at Miss Mac's house.
5. Replaced batteries at Fuji's house.

B. Assisted in moving Power's furniture from Hilo to H.N.P.

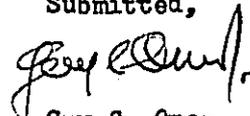
C. Weekly janitor work

D. H.V.O.

1. Made Mauna Loa seismograph trips and carried out various Obs. routine in the absence of one or more members of H.V.O.
2. Completed first draft of a joint paper with Finch on Volcanic Tremors.
3. Analyzed and made a report to Finch on Gratton's paper on Volcanic Heat.

E. Traffic Count at Hilo Entrance -- two shifts.

Submitted,



Guy C. Omer, Jr.
June 4, 1946

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

Wailuku, Maui
June 4, 1946

Memorandum to the Acting Superintendent Gunnar O. Fagerlund:

The following narrative report for the month of May, 1946, is respectfully submitted.

Arrangements have been made to resume the annual Maui County Fair in October. It is hoped that the Park Service will be able to enter an exhibit. The Haleakala display in the 1941 Fair was very well received by the public.

The checking station has been discontinued. Park visiting hours have been extended from 4:30 A.M. to 8:30 P.M.. However, comparatively few visitors have taken advantage of the evening hours to enjoy the sunsets.

General Weather Conditions in the Park. Over two weeks of clear, calm weather was enjoyed during May.

Maximum Temperature-----73 degrees on the 30th and 31st.
Minimum Temperature-----37 degrees on the 3rd, 5th, 7th, and 29th.
Rainfall Total-----0.64 inches
Clear Days-----26
Partly Cloudy Days-----2
Cloudy Days-----3

Labor Situation. Temporary Ranger McCall entered on duty on the twenty-second of this month. Ranger Medeiros arrived on the 9th and helped with maintenance work the remainder of the month.

Maintenance. A number of small slides and loose rocks along the road were removed by Ranger Medeiros throughout the month.

Mechanic Fujimoto spent several days here at Haleakala fixing the Ford Coupe, No. 13032, and the Chevrolet Sedan, No. 13028, and made minor repairs to the Ford dump truck, No. 13039.

Public Service Contractors. Some public pressure was brought to bear to try and get the Maui Grand Hotel to start operating saddle horse trips in the Crater. Nothing has been done about it by the Maui Grand, however.

RECEIVED AS FOLLOWS

Approaches to the Park. The Territorial Board of Forestry and Agriculture has begun work on the fence from Puu Nianiau to Koolau Gap. The right-of-way requested by the board for a road in the park over which to haul the fence posts was not needed. The road has already been built on Territorial land. ✓

Ranger Guide Service. The Girl Scout Executive and ten Girl Scout Leaders were conducted through the Crater on a three day trip. The purpose of the trip was to familiarize the leaders with the Crater in order that, they in turn, might conduct Girl Scout parties on future trips. ✓

Birds. The plovers left on their annual flight to the north during May. ✓

Increase or Decrease in Travel. There was a slight decrease in the overall number of visitors this month compared to last month. More than four and one-half times as many civilians visited this section of the park this May compared with the figures of a year ago. There was a decrease from 3990 military visitors to 483. ✓

Visitors. Mr. Edwin G. Arnold, Interior Department Territories Director, was an important visitor this month. ✓

"Miss Mack" made her first visit to Haleakala on the seventeenth. ✓

Accidents. A navy jeep ran off the road a short distance above the 9000 ft. curve. Neither of the two occupants suffered injuries although the front end of the vehicle was damaged. ✓

Destruction of Exotic Animals. Forty goats were destroyed in May. ✓

Miscellaneous. Mr. William Albee, official photographer for the Hawaiian Visitors Bureau spent three days in the Crater taking pictures. Mr. Albee is travelling from island to island photographing points of scenic interest using his family as "visitors" in the pictures. ✓

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

RECEIVED AS FOLLOWS

Section 304
Reports
411 and 420

120905

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*
Hawaii National Park

NUMBER OF PERSONS ENGAGED: Name of Area

	Interpretive	Administrative	Other	<u>May</u>
Permanent	_____	<u>1</u>	<u>2</u>	<u>Month</u>
Temporary	_____	_____	_____	<u>1946</u>
				<u>Year</u>

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	2	180	4 hrs.
Walks or Hikes	3	76	6 hrs.
Ruins or Hist. House			
Other			
Total	5	256	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	7	386	1 hr.
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	7	386	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Thurston Lava Tube, Trailside Exhibit	31	1500	1/2 hr.
Kipuka Puanalu Trailside Exhibit	31	3000	"
Observatory	22	1500	"
Silversword Trail (Haleakala)	31	1000	1/2 hr.
(Give Name or Type) Total	115	7000	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	1	40	1 hr.
Displays and Exhibits			
Replies to Inquiries	3		
Other			

7,682
Total Receiving Interp. Serv.
31,066
Total Number Visitors to Area

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

NAME Gunnar O. Fagerlund
TITLE Acting Superintendent.

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

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

RECEIVED AS FOLLOWS

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 OVERLOOKS, 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.

10-23
(May 1922)

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

FILE NO.

MONTHLY NARRATIVE REPORT

APRIL, 1946.

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.

Summary of April, 1946 4-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- Tidal wave hits Hilo, Island of Hawaii, in early morning April 1, with great loss of life and property.

Weather, p.1.- Precipitation at Kilauea 11.48 inches; at Haleakala 4.91.

Administrative Work, ps. 1& 2.- Chief Ranger Fagerlund assumed duties of Acting Superintendent April 7. With representative of Territorial Tax Office he made two trips to land of Kamoamoa in authorized Kalapana extension for purposes of reappraising all the land of Kamoamoa. The K.M.C. gave a small detail of soldiers to help transport material for new concrete bridge at Lava Tube. Road and trail maintenance estimates for last half 1946 prepared and sent in. Funds were made available for one additional ranger to aid Ranger-in-charge at Haleakala in keeping the park open until 8 or 9 P.M. As soon as additional man can be secured this will be carried out.

Research & Observation, p. 2.- Both Kilauea and Mauna Loa volcanoes continued quiet during the month. Two slight earthquakes perceptible on the 8th and 9th. Seismographs recorded 49 local disturbances at Kilauea and 47 at Mauna Loa during the month.

Ranger Service, p. 2.- Largely routine. Ranger Davis assumed duties of acting chief ranger April 7.

Forest Protection, p.3.- In Kilauea a total of 87 goats and 8 pigs were eliminated and at Haleakala 30 goats were destroyed.

Travel, p.4.- At Kilauea for the month 38,514 visitors of which 10,310 were in the armed forces; at Haleakala these figures were 1268 and 520.

RECEIVED AS FOLLOWS

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

May 8, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of April, 1946:

Introduction.

The first day of the month was a tragic one for this island, as the disastrous tidal wave struck Hilo early that morning, causing some 175 deaths in the Territory and damage to property on Hawaii Island alone of more than ten million dollars. The acting superintendent immediately offered ranger help to the stricken town, but its own civic organizations moved into action with amazing speed and efficiency, while the Army and Navy immediately sent squads of men and equipment to aid in the work of rescue and clearing away the debris and to enforce law and order. We append to this report two snap shots showing part of the railroad bridge swept out and a view of a portion of the main business street taken shortly after the wave occurred.

General Weather Conditions.

Maximum and minimum temperatures at Kilauea headquarters were 72° and 46°. At the Haleakala ranger station these recordings were 65° and 36°. The total rainfall at Kilauea was 11.48" and at Haleakala 2.82".

Administrative Work.

Chief Ranger Fagerlund took over the duties of acting superintendent on the 7th and was on duty at Kilauea practically all the balance of the month. He made two trips with Mr. Nelson Ahuna of the Territorial Tax Office in Hilo to the land of Komoemoa in the authorized Kalapana extension for the purpose of reappraising all the land of Komoemoa. Crating and hauling of former assistant to superintendent Baldwin's furniture delayed start on rebuilding the Lava Tube bridge. K.M.C. has given us a small detail of soldiers to help with transporting material for this new bridge, which has been of material assistance. Foreman Quick prepared the road and trail maintenance estimates for the last half of 1946, which were sent in on the 24th. He went to Honolulu on the 28th to negotiate excess and surplus property, in which he has been fairly successful. Regional Director Tomlinson left here on April 3 for Maui where he spent two days before going on to Honolulu. Ranger Hjort was asked to come to Kilauea to discuss operation of checking-station; it was decided to discontinue the checking-station as soon as possible and to maintain visitor control by attending the observation station. Funds were made available for

RECEIVED AS FOLLOWS

for one additional ranger to aid with this work and as soon as a new man is secured it will be possible to keep the Haleakala section open until 8 or 9 P.M. Headquarters building at Kilauea is being kept open week-ends by headquarters staff rotating duty.

Research and Observation.

A fuma cloud was observed near Mokuaweewe on April 30. Two slight earthquakes on April 8 and 9 were the only ones that were perceptible. The seismographs recorded 49 local disturbances at Kilauea and 47 at Mauna Loa during April. The Aleutian earthquake that induced the tidal wave which caused so much destruction in Hawaii started being recorded on the Observatory seismographs a little after 2 A.M., or nearly 5 hours before the water waves arrived. As our seismographs are not inspected during the night after 8 P.M., no warning of the possibility of a tidal wave was made.

There was a slight accumulation of south tilt during the month. West tilt for the month was normal. The tilt curve for the first four months of the year may be taken as indicating a slight build up of internal pressure under Kilauea.

There was but little movement at the cracks around the Halemauau rim and along the Chain of Craters Road.

A large part of the volcanologist's time was taken up with seismographical routine, on working up back records and moving the library. The statistical portion of the Volcano Letter was compiled. Geologist Powers spent much of his time on seismographical work; three days were spent in tidal wave effects investigation. He prepared an article on the tidal wave for the Volcano Letter and sent it to the printer. Assignee Omer spent some time on a paper on Volcano Tremor. He assisted in the measurement of cracks and in reading rain gauges, and spent considerable time on various jobs in the ranger division, repairing the 16 mm. projector and working on telephone maintenance.

Ranger Service

Ranger Davis took over the duties of acting chief ranger on the 7th, having returned on the 5th from several weeks tour of duty at Haleakala. Ranger Medeiros was detailed to Haleakala from April 11 to 29, where he assisted the ranger-in-charge in checking station duties, installing telephone cables, repairing fences, cutting out firewood, sawing, splitting and hauling it. Made trips to the summit, cleaned out rest house and hauled rubbish. Helped in goat control.

At Kilauea considerable time was spent by the ranger force in repairing telephone lines and installing new poles, as well as devoting many days to a thorough cleanup of park roadsides. Two man-days travel count was made. Regular patrols and week-end duty were attended to.

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Maintenance.

Repairs to Quarters No.1, such as painting, carpentry, sanding floors, laying new linoleum, were started. This building has been unoccupied for some years and needs complete renovation. This project is now 40% complete. Repairs to ice-boxes and stoves in several other quarters were made. 10 man-days were expended in crating former assistant to superintendent Baldwin's household effects preparatory to shipping them to Honolulu, which work had been ordered done by Mr. Baldwin when he was acting superintendent the first week of April. Routine maintenance to passenger carrying vehicles was made; the Hilo telephone line was changed from Quarters No.17 to No.15. Other routine work, such as garbage disposal, janitor work, servicing outlying rest stations, caring for grounds around the administration building, delivering wood, kept the maintenance division busy. Minor patching was done on the Mamalahoa highway.

New Construction.

Construction of a reinforced concrete bridge at the Lava Tube was started and is now 90% complete. This replaces the old wooden bridge formerly there which rotted out and became unsafe to use some eight months or so ago.

Building Fire Protection.

Fire equipment was checked weekly and the fire engine continues to perform unsatisfactorily.

Forest Protection.

The Koa plots were checked and found to be free of cattle. A total of 87 goats and 8 pigs were eliminated from Kilauea section, while 30 goats were destroyed at Haleakala.

Insects and Tree Diseases.

D.D.T. was used for mite control on Erythrina monosperma (Wiliwili) at Hilina Pali and although some improvement of the plants has been observed, it is believed that control will be more effective if sulphur is added to the D.D.T.

The aphids which have been injurious to young native seedlings at the park nursery have been identified by Professor Essig as Myzus convolvuli (Kalt.).

The identification of a caterpillar, Ethmia colonella, destructive to the foliage of Cordia subcordata (kou), was confirmed by Dr. O. H. Swazey of the Experimental Station, H.S.P.A., which is the first record of this insect on the Island of Hawaii. Kou is a native tree.

RECEIVED AS FOLLOWS

Cooperating Governmental Agencies.

The U.S.E.D. is restoring areas in the park altered by military use during the war.

Interpretation.

At Kilauea 9 illustrated lectures were given in the park, with an attendance of 251; 3 conducted trips with attendance of 77. At Haleakala one illustrated lecture was given to an audience of 100, and one conducted trip was made with an attendance of 14.

Travel

At Kilauea there were 38,514 visitors, of which 8,012 were in the armed forces, and at Haleakala these figures were 1268 and 520.

Natural History Association.

Regular quarterly meeting was held on April 26 with a good attendance. Mr. Eugene Horner gave a very interesting talk on Land Shells of Hawaii and supplemented his lecture by passing around at least a dozen trays of shells he has collected through the years.

Visitors.

Mr. & Mrs. Cannon of Cannon's School of Business in Honolulu;
Dr. & Mrs. E.L. Willett, of Honolulu. Dr. Willett is Animal Husbandry Specialist at the University of Hawaii.
Lt. Comdr. Jack C. Lang, U.S.N.R., of the Bureau of Navy Personnel, Washington, D.C., visited Haleakala section of the park during the month.

CAM

Gunnar C. Fagerlund,
Acting Superintendent.

605F

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

May 8, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Foreman's Monthly Report.

The first half of the month was spent in completing estimates on road and trail for the period July through December 1946. The last week in the month was spent in Honolulu on procurement of excess property. Other accomplishments were as follows by account number.

201. Repairs to quarters number (1) one such as painting, carpentry, sanding floors and laying new linoleum. This project is 40% complete. Ten man days were expended in crating of acting Superintendent Baldwin's household effects.
202. Minor patching was accomplished on Mamalahoa highway.
206. Construction of a reinforced concrete bridge at the lava tube was started and is now 90% complete.
207. Routine maintenance of grounds around administration building.
208. None.
209. The Hilo system line was changed from quarters #17 to quarters #15.
211. Several minor jobs such as floor drains, sinks, etc., were cleaned.
212. Routine prumping of water to high tanks.
217. Routine maintenance to passenger coming vehicles.
218. Routine maintenance such as janitor work, garbage disposal, and servicing, outlying rest stations.
226. Delivering of wood, kerosene, repairs to ice boxes and stoves.

Respectfully submitted,


Herbert J. Quick,
Foreman of Const. and Maintenance.

May 8, 1946.

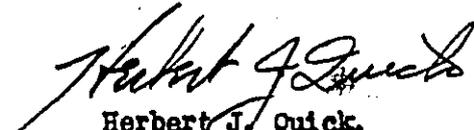
MEMORANDUM for the Acting Superintendent.

SUBJECT: Foreman's Monthly Report.

The first half of the month was spent in completing estimates on road and trail for the period July through December 1946. The last week in the month was spent in Honolulu on procurement of excess property. Other accomplishments were as follows by account number.

201. Repairs to quarters number (1) one such as painting, carpentry, sanding floors and laying new linoleum. This project is 40% complete. Ten man days were expended in crating of acting Superintendent Baldwin's household effects.
202. Minor patching was accomplished on Mamalahoe highway.
206. Construction of a reinforced concrete bridge at the lava tube was started and is now 90% complete.
207. Routine maintenance of grounds around administration building.
208. None.
209. The Hilo system line was changed from quarters #17 to quarters #15.
211. Several minor jobs such as floor drains, sinks, etc., were cleaned.
212. Routine pumping of water to high tanks.
217. Routine maintenance to passenger coming vehicles.
218. Routine maintenance such as janitor work, garbage disposal, and servicing, outlying rest stations.
226. Delivering of wood, kerosene, repairs to ice boxes and stoves.

Respectfully submitted,


Herbert J. Quick,
Foreman of Const. and Maintenance.

HAWAII NATIONAL PARK

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

May 2, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Report of activities for the month of April 1946 is as follows:

Maintenance
April 1, 1946 through April 10, 1946, performed duties at the Kilauea section. Checking and repairing telephone lines and telephones. Checking and repairing the telephone lines #9 and #11 along the Chain of Craters and Lava Tube.

Haleakala
April 11, 1946 through April 29 1946, performed duties at the Haleakala section. Checking station duties, installation of telephone cable, repairing fence, hauling fire wood, saw and splitting, making trips to the summit, cleaning out rest house and hauling rubbish, also made a trip to the crater. Hauled some fire wood.

Did some goat hunting accompanied by some Navy personnel. Fourteen goats were destroyed on this hunt.

Returned to Hilo on April 30, 1946.

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

ABM:mp

RECEIVED AS FOLLOWS

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

May 2, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Report of activities for the month of April 1946 is as follows:

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Did some goat hunting accompanied by some Navy personnel. Fourteen goats were destroyed on this hunt.

Returned to Hilo on April 30, 1946.

A. B. Medeiros

A. B. Medeiros,
Park Ranger.

AIM:mp

cc: Chief Ranger
cc: Files

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

May 2, 1946.

MEMORANDUM: For the Acting Superintendent.
Through the Chief Ranger.

SUBJECT: Report and activities for the month of April, 1946.

Repairing and installing telephone poles at Devils Throat section and at Alealea Crater. Checking telephones from Makaopuhi to end of Truck Trail, Mauna Loa section, also posting up new code rings.

Rubbish picking was performed, within the month, extending from Hilo Entrance to Peter Lee's junction, and around crater rim Halemaumau to Makaopuhi, accompanied by Ranger Davis and Assignee Guy Omer.

A goat drive was performed once in the month of April. Helped Jack Hamili, starting from Kipuka Nene, to Hilina Pali and covering Kaone and the Makahanau area, assisted by Bill Pele.

Put in two hours, helping B. Loucks remove his furniture to the former Baldwin's cottage.

Travel count and weekend duty were also performed during the month.

Goats destroyed-----19
Pigs ----- 1

John F. Hauanio, Jr.
J. F. Hauanio, Jr.
Park Ranger.

JFH:mp

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



May 6, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Report of Hawaiian Volcano Observatory for April.

(A fume cloud was observed over Mokuaweoweo on April 30.

Two slight earthquakes that occurred on April 8 and 9 were the only ones that were perceptible. The seismographs recorded 49 local disturbances at Kilauea and 47 at Mauna Loa during April. The Aleutian earthquake that induced the tidal wave which caused so much destruction in Hawaii started being recorded on the Observatory seismographs a little after 2 am, or nearly 5 hours before the water waves arrived. As our seismographs are not inspected during the night after 8 pm, no warning of the possibility of a tidal wave was made.

There was a slight accumulation of south tilt during the month. West tilt for the month was normal. The tilt curve for the first 4 months of the year may be taken as indicating a slight build up of internal pressure under Kilauea.

There was but little movement at the cracks around the Halemaumau rim and along the Chain of Craters Road.

Work of R. H. Finch

Some time was spent on back records and in moving the library. The statistical portion of the Volcano Letter was compiled.

Work of H. A. Powers

A large part of his time was taken up with seismological routine. Three days were spent in Tidal wave affects investigation. An article on the tidal wave was completed for the Volcano Letter and sent to the printer.

Work of Guy C. Omer

Some time was spent on a paper on Volcanic Tremor. He assisted in the measurement of cracks and reading rain gauges. One trip to Hilo was made. Some janitor work was done in the Observatory. Considerable time was spent on various jobs in the ranger division.

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

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



Wailuku Maui
May 2, 1946.

Memorandum to the Superintendent Gunnar O. Fagerlund (Acting);

The following narrative report for the month of April 1946 is respectfully submitted;

News of the allotment of funds with which to open the park in the evening was well received on Maui. All the organizations that sent in complaints about the park being closed felt gratified.

General Weather Conditions in the Park. The wind has continued to blow most of this month, but there has not been as much rainfall as last month.

Maximum temperature----65 degrees on the 3rd, 6th, and 5th.
Minimum temperature----36 degrees on the 9th and 17th.
Rainfall total-----2.82 inches
Clear days-----10
Partly Cloudy Days-----19
Cloudy days-----1

Park Inspections by National Park Service Officers.

Major Tomlinson, Director of region IV, visited this section of the park on the 3rd and 4th of the month.

While here the Director attended the meeting of the officers of the Maui Chamber of Commerce and the Hawaii Visitors Bureau where the future of what was to be offered the visitors to Maui was discussed.

VJ-11 flew the Director over Mauna Kea, Mauna Loa, and Haleakala while enroute to Maui from Hilo.

Maintenance. Two days were spent by Ranger Davis, Warden Hjort, and myself in picking up all the rubbish along the highway to the summit. Three dump truck loads of debris were gathered.

Ranger Guide Service. Twelve girl scouts and two teachers from Baldwin High School were conducted on a three day trip into the crater as the final phase of the Rangers Aide course.

Increase or Decrease in Travel.

Over three times as many civilians visited the park as this month last year but there were less than one fourth as many military personnel as this month last year.

Visitors. Lt. Comdr. Jack C. Lang U.S.N.R. of the Bureau of Naval Personnel Washington D. C. visited the park this month. Mr. Lang is a former naturalist from Yellowstone Park.

Destruction of Exotic Animals.

✓ Thirty goats were killed in the crater this month.

Our daughter Anne and I had the good luck to catch a herd of goats on the flat above Kapalaoa Cabin while riding into the crater. We took after the goats on our saddle animals and caught them before they could get to the cliffs. I got thirteen of them with twenty-four shots from a carbine. This I think is another talking point for this gun as a means of destroying goats.

Frank A. Hjort

Frank A. Hjort
Ranger-in-Charge

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

May 1, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Acting Chief Ranger's Narrative Report for April, 1946.

100 - Administrative

Rangers Davis and Medeiros were on duty at Haleakala throughout the month, the former returning to headquarters on April 5th and the latter on April 30th.

Some correspondence was necessary to thank those who have been identifying insect material for the park.

200 - Maintenance

About four days have been spent cleaning up roadside trash throughout the park by Rangers Davis, Hauanio, and Assignee Omer. About two days will be required to complete the clean up.

Assignee Omer repaired the 16mm. projector and worked on telephone maintenance.

Ranger Hauanio replaced several telephone poles in the Chain of Craters sector and restored communications to some of the lines which were inoperative.

400 - Interpretation

In addition to the scheduled programs at the observatory the undersigned handled two special programs and two hikes. A break down is as follows:

<u>Talks</u>	<u>No.</u>	<u>Attend.</u>	<u>Duration</u>
Observatory	4	14	4 hrs.
<u>Hikes</u>			
Kilauea Iki)	2	63	9 hrs.
Bird Park)			

Forest Protection

430 - Research

D.D.T. was used for mite control on *Erythrina monosperma* (Wiliwili) at Hilina Pali and although some improvement of the plants has been observed it is believed that control will be more effective if sulfur is added to the D.D.T.

The aphids which have been injurious to young native seedlings at the park nursery have been identified by Professor Essig as *Myzus convolvuli* (Kalt.). This is an immigrant species and in continental U. S. is known as the foxglove aphid.

The identification of a caterpillar, *Ethmia colonella*, destructive to the foliage of *Gordia subcordata* (kou), was confirmed by Dr. O. H. Swezey of the Experiment Station, H.S.P.A., which is the first record of this insect on the Island of Hawaii. Kou is a native tree.

600 - Protection

The Koa plots were checked and found to be free of cattle.

✓ Fire equipment was checked weekly and the fire engine continues to perform unsatisfactorily.

Weekly motor patrols were made and several visitors were warned about removing native shrubbery.

A total of 87 goats and 8 pigs were eliminated from the park.

Miscellaneous

Two man days were spent on travel count.

Clifton J. Davis
Clifton J. Davis
Acting Chief Ranger.

CJD:mp

Section 304
Reports
411 and 420

MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS*

120905

Haleakala Section, Hawaii N.P.

NUMBER OF PERSONS ENGAGED:

Interpretive Administrative Other
Permanent _____ / _____
Temporary _____ / _____

Name of Area

April
Month
1956
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans			
Walks or Hikes <i>(Girl Scouts)</i>	<i>1</i>	<i>14</i>	<i>3 days</i>
Ruins or Hist. House			
Other			
Total	<i>1</i>	<i>14</i>	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
*Other (Not connected with conducted trip)	<i>1</i>	<i>100</i>	<i>1/2 hr.</i>
*Teachers Convention at Observation Station			
Total	<i>1</i>	<i>100</i>	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type)	Total

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
<i>Silversword Trail</i>	<i>30</i>	<i>1341</i>	<i>1/2 hr.</i>
(Give Name or Type)	Total		

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks			
Displays and Exhibits			
Replies to Inquiries			
Other			

1465
Total Receiving Interp. Serv.
1788
Total Number Visitors to Area

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

NAME *Frank A. Hjort*
TITLE *Ranger-in-Charge*

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

*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 OVERLOOKS, 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.

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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

RECEIVED AS FOLLOWS

Section 304
Reports
411 and 420

**MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS***

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other
Permanent	_____	3	_____
Temporary	_____	_____	_____

April
Month
1946
Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans			
Walks or Hikes	3	77	5
Ruins or Hist. House			
Other			
Total	3	77	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	9	251	1 hour
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip) Haleakala	1	100	1/2 hour
Total	10	351	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Kipuka Puuulu Trailside Exhibit	30	2000	1/2 hour
Thurston Lava Tube Trailside Exhibit	30	4,000	1/2 hour
Observatory	22	2,000	1/2 hour
Silversword Trail (Haleakala)	30	1,341	1/2 hour
(Give Name or Type) Total	112	9,341	

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

9,769
Total Receiving Interp. Serv.
40,303
Total Number Visitors to Area

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

NAME Gunnar O. Fagerlund
TITLE Acting Superintendent

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

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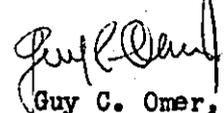
120905

Memorandum to: Acting Superintendent G. O. Fagerlund

Subject: Job report, Guy C. Omer, Jr., April, 1946

1. Repaired Bell-Howell 16 mm. projector.
2. Paper-pickup work with Ranger staff.
3. Two shifts of Traffic Count at Hilo Entrance.
4. Gave one Mauna Loa Eruption (1942) lecture with movies.
5. Telephone work:
 - a) new batteries to switchboard
 - b) replaced fuses on lines #7 & #10
 - c) Lines checks on #7 & #10 looking for trouble
6. Developed plan for simple and inexpensive remote recording of seismographs (to use at end of Truck Trail, Pit seismograph, 10,000 ft., etc.) -- prepared a memorandum to Finch
7. A great deal of research work on volcanic tremors -- began writing first draft for a joint paper upon this subject in collaboration with Finch.
8. Hilo trips:
 - a) Food for Omer
 - b) Clothing for Omer
 - c) Transportation of Finch to plane
 - d) Dentist (Omer)
9. Some janitor service at Obs. Bldg.
10. Signal Corps property suggestion for Quick:
 - a) arranged conference with Lt. Swift as to available property
 - b) prepared memo for Quick on useful property for both Park & Obs.
11. Assist Davis in setting up research office at Obs. Bldg. (moving, etc.)
12. One radio time check of the Obs. master clock.
13. Assisted Powers in reading rain gauges and cracks ($\frac{1}{2}$ day)
14. Minor Obs. routine -- seismic, visitors, etc.

Submitted,


Guy C. Omer, Jr.
May 1, 1946

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Hawaii NATIONAL PARK

FILE NO.

MONTHLY NARRATIVE REPORT

MARCH, 1946

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

Summary of March, 1946 3-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- Superintendent Wingate resigns from National Park Service effective March 31, 1946.

Weather, p.1.- Precipitation at Kilauea 17.26 inches; at Haleakala 4.91.

Supt's Special Activities, p.1.- Made one complete inspection of traveled portions of park; accompanied Regional Director on inspection of Pohakuloa area in the saddle between Mauna Loa and Mauna Kea, this being a site suggested as desirable for army to use if decision is made to remove K.M.C. from park. Also made trip with Regional Director to Kona.

Administrative Work, pp.1 & 2.- Special travel data prepared for P.R.A. District Engineer for use in preparing estimates for reconstruction of parts of Mamalahoe highway thru the park. Article prepared for Audubon Magazine on preservation of birdlife at Midway Islands. Assistant to the superintendent, Paul H. Baldwin, tendered his resignation from the Park Service on March 29, to become effective April 6, in order to accept the position of Curator of Collections at the Bishop Museum in Honolulu.

Research and Observation, p.2.- Both Kilauea and Mauna Loa volcanoes were quiet during month. No perceptible earthquakes recorded altho 51 seismic disturbances were recorded at Mauna Loa and 44 at Kilauea.

Ranger Service, p.2.- Largely routine, with Chief Ranger making two inspections of portions of the Kau Desert to check on restoration work being done by U.S.E.D., and trip to Kona with Superintendent and Regional Director.

Forest Protection, p.3.- In Kilauea 20 goats and 6 pigs were destroyed; at Haleakala 27 goats were destroyed.

Travel, p.3.- At Kilauea for the month 37,029 visitors of which 10,510 were in the armed forces; at Haleakala these figures were 1633 and 405.

Visitors, p.3.- Regional Director Tomlinson was in the park from March 19 to April 3.

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

April 11, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of March, 1946:

Introduction

After over thirteen years service in Hawaii National Park, Superintendent Wingate submitted his resignation effective at close of business March 31. At the final meeting of the entire park staff he expressed his appreciation of the faithful service they had given these many years, particularly during the war period. He assured them he would maintain an active interest in the park service, especially Hawaii National Park, and would always be available when called upon for any help he might be able to give.

General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 69° and 46°. At the Haleakala ranger station these recordings were 66° and 39°. The month of March, like February, was cloudy and rainy throughout. The total rainfall at Kilauea was 17.25" and at Haleakala 4.91 inches.

Superintendent's Special Activities

Following his return from the hospital, the superintendent made one complete inspection of the traveled portions of the park; attended routine Selective Service board meetings and one meeting of the executive committee of B.S.A. in Hilo. During Regional Director Tomlinson's visit he accompanied him on the inspection of the Pohakuloa area in the saddle between Mauna Loa and Mauna Kea. This site had been suggested as possibly being desirable for use by the army if decision is made to remove K. M. C. from the park. He also accompanied Major Tomlinson to Kona, visiting points of interest on the way, returning by way of the mountain road.

Administrative Work

From March 1 to 17 the assistant to the Superintendent was on duty at Kilauea attending to routine and administrative affairs. Special travel data was submitted to the superintendent for the information of the P.R.A. District Engineer in preparing estimates for the reconstruction of parts of the Mamalahoa Highway through the park. A collection of land shells from the park was sent to the

RECEIVED AS FOLLOWS

Bishop Museum in Honolulu for identification. At the request of the editor of Audubon Magazine, an article was prepared on the preservation of the famous bird-life at the Midway Islands. March 18-21 he spent at Honolulu completing a co-operative research project on the foods of the Hawaiian Goose. March 22 to 31 was given to conducting Regional Director Tomlinson to various points within the park and about the Island. On March 29 the assistant to the superintendent asked to be released from the National Park Service as of April 6 in order to accept the position of Curator of Collections at the Bernice P. Bishop Museum in Honolulu.

Research and Observation

No perceptible earthquakes were recorded during March, though 51 seismic disturbances were recorded at Mauna Loa and 44 at Kilauea. There was a moderate accumulation of north tilt during the month or opposite to the normal for this season of the year. This is not so surprising when one considers that the mean temperature for March was about 20° F. below that for January and February. Westerly tilt was quite uniform and about normal for March. A few of the cracks around the Halemauau rim opened slightly. A large block at the SW rim which had been in a precarious position since last September finally fell in.

In addition to doing some seismological routine, the volcanologist started work on bringing some back records up to date, and the manuscript for a Volcano Letter was completed and sent to the publisher.

The Chief Ranger spent some time on the revision of the Circular of General Information. He also spent some time on the exotic plant paper and identified numerous plants for Mr. Charles Schwartz of the T. H. Board of Agriculture and Forestry.

Ranger Service

The Chief Ranger spent a few days in the Haleakala section of the park at the beginning of the month and Ranger Davis was on a tour of duty there from March 22 through the end of the month. Ranger Medeiros was on sick leave for two weeks in March.

The Chief Ranger made two inspections of portions of the Kau Desert to check on progress of restoration work being done by the U.S.E.D. The road ruts on the open desert have been fairly well obliterated by dragging, but where the ruts made by heavy military vehicles extend into the forest they have not been obliterated. It probably would be inadvisable to drag in the forest margin as much vegetation might be destroyed thereby; hand labor being the only practicable means of obliterating the ruts. One inspection was made of the Crater Rim portion of the bridle trail with Lt. Dorsey of K.M.C. and the Chief Ranger approved some minor changes in order to minimize hazards for inexperienced riders. A trip was made by the Chief Ranger to Kona with Major Tomlinson, Superintendent Wingate, and Mr. Baldwin. One ranger meeting was held during the month. Travel count and week-end duty were also attended to.

RECEIVED AS FOLLOWS

Maintenance

Rangers Hanania and Medeiros spent considerable time preparing lumber to be used for constructing a shelter for horses at Mauna Loa summit rest house. They also spent several days on patrol of the outlying sections of the park during which they repaired the boundary fence in a number of places. The Kipuka Puaula fence was also repaired. The rangers as well as Assignee Omer spent several days on telephone maintenance.

Fire and Sanitation Inspection

In this quarterly inspection all fire extinguishers and other fire fighting equipment were checked and sanitation conditions in the park investigated. It was pointed out that the fire engine is unserviceable.

Forest Protection

Ranger Davis having successfully set out 40 wiliwili trees Erythrina monosperma has for the present at least completed this part of the rare tree propagation project. All but 7 of these 40 trees have been adequately fenced to prevent goat injury. All plants were dusted with D.D.T. for mite control.

In cooperation with the T.H. Board of Agriculture, Ranger Davis reared 145 fern weevil parasites Ischiogonus syagrii and released them on forest reserve land on Hualalai in North Kona. Davis found the parasite well established there, however, which makes further rearing of the parasite unnecessary.

Pig and goat control in Kilauea section was performed once during the month, resulting in 20 goats destroyed and 6 pigs, while at Haleakala 27 goats were destroyed.

Interpretation

The scheduled interpretive program remained unchanged. Mr. Earl Finch, the Mississippi rancher who befriended American soldiers of Japanese ancestry, many of them from Hawaii, was conducted on a tour of the park on March 16. At Kilauea 4 illustrated lectures were given in the park with an attendance of 170, and two outside the park with an attendance of 110. One conducted 2-hour auto caravan trip was made with 9 persons, and one 2-hour conducted hike with 14. The Ranger-in-Charge at Haleakala reports several lectures given to the Girl Scouts of Maui; also the 1942 Mauna Loa eruption film was shown to Spreckelsville school with 140 in attendance, and to Baldwin High School with an attendance of 1,000. The Chief Ranger gave an illustrated talk on National Parks to the Maalehu Community Club on the 25th.

Travel

At Kilauea there were 37,029 visitors of which 10,310 were in the armed forces, and at Haleakala these figures were 1635 and 405.

Visitors

Regional Director Tomlinson was with us from March 19 to April 3.

CAM

HAWAII NATIONAL PARK

Gunnar O. Fagerlund,
Acting Superintendent.

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

April 5, 1946.

MEMORANDUM for the Acting Superintendent.

The Monthly report on activities of the Asistant to the Supt. for March 1946 is submitted.

✓ From March 1 to 17, the Assistant to the Superintendent was on duty at Kilauea tending to routine administrative matters. Special travel data was submitted to the Superintendent for the information of R.R.A. District Engineer, Carlson in preparing estimates for the reconstruction of parts of the Mamalahoa Highway through the park. A collection of land shells from the park was sent to Dr. C. M. Cooke, Jr., at the Bishop Museum for identification. At the request of the Editor of Audubon Magazine, an article was prepared on the preservation of the famous birdlife at the Midway Islands with Dr. Fisher.

✓ March 18-21 was spent at Honolulu completing a cooperative research project on the foods of the Hawaiian Goose and other park affairs. One day of annual leave was taken.

✓ From March 21 to 31, time was given to conducting Regional Director Tomlinson to various points within the park and about the island and in discussing many matters of consequence to the park.

✓ On March 29 the assistant to the Superintendent asked to be released from the National Park Service as of April 6, 1946, in order to accept an offer from the Bernice P. Bishop Museum in Honolulu to join its staff as Curator of Collections. He expressed his sincere appreciation of the interest taken in his work by the National Park Service and expressed the desire to maintain contacts with it in the future.

Movies were shown to 40 persons on March 24 and to 30 persons on March 31.

Paul H. Baldwin
Paul H. Baldwin
Acting Superintendent.

PHB:mp

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

April 8, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Chief Ranger's Narrative Report for March, 1946.

000 - General

✓ The Chief Ranger spent a few days in the Haleakala section of the park at the beginning of the month and Ranger Davis was on a tour of duty there from March 22 through the end of the month.

✓ Ranger Medeiros was on sick leave for two weeks in March.

100 - Administration

The Chief Ranger made two inspections of portions of the Kau Desert to check on progress of restoration work being done by the U.S.E.D. The road ruts on the ^{200'} desert house have fairly well been obliterated by dragging, but where the ruts made by heavy military vehicles extend into the forest they have not been obliterated. It probably would be inadvisable to ^{drop} in the forest margin as much vegetation might be destroyed, thereby; hand labor being the only practicable means of obliterating the ruts. One inspection was made of the Crater Rim portion of the bridle trail with Lt. Dorsey of K.M.C. and the Chief Ranger approved some minor changes in order to minimize hazards for inexperienced riders.

(The rangers held one meeting during March.

(The Chief Ranger spent some time on the revision of the Circular of General Information.

(A trip was made to Kona with Major Tomlinson, Mr. Wingate and Mr. Baldwin, and a trip to Kalapana with Major Tomlinson and Mr. Baldwin.

200 - Maintenance

(Rangers Hauanio and Medeiros spent considerable time preparing lumber to be ^{used} and for constructing a shelter for horses at Mauna Loa summit rest house.

(The rangers as well as Assignee Omer spent ^{several} days on telephone maintenance.

(Several days were spent by Rangers Hauanio and Medeiros on a patrol of the outlying sections of the park during which they repaired the boundary

(fence in a number of places. The Kipuka Puaua fence was also repaired.

400 - Interpretation

(The scheduled interpretive program remained unchanged. Mr. Earl Finch, the Mississippi Rancher who befriended American soldiers of Japanese ancestry, many of them from Hawaii, was conducted on "tours" of the park on March 16.

(The Chief Ranger gave an illustrated talk on National Parks to the Naalehu Community Club on March 25.

Research

(The Chief Ranger spent some time on the exotic plant paper and identified numerous plants for Mr. Charles Schwartz of the T. H. Board of Agriculture and Forestry.

500 - Use of Park Facilities by the Public

(One 48^{-hour} continuous travel count was made during March.

(Mr. Earl Finch of Mississippi visited the park on March 16.

600 - Protection

(Rangers Davis and Hanania made the Quarterly Fire and Sanitation Inspection. It was pointed out that the fire engine is unserviceable.

X Unreported last month was the trapping of 14 domestic cats mostly in the vicinity of park residential area.

(Ranger Davis having successfully set out 40 wiliwili trees Erythrina monosperma has for the present at least completed this part of the rare tree propagation project.

(In cooperation with the T. H. Board of Agriculture Ranger Davis reared 145 fern weevil parasites Ischiogonus syagrii and released them on forest reserve land on Hualalai in North Kona. Davis found the parasite well established there, however, which makes further rearing of the parasite unnecessary.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

GOF:mp

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Section 304
Reports
411 and 420

**MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS***

120905

Hawaii National Park

NUMBER OF PERSONS ENGAGED:

	Interpretive	Administrative	Other
Permanent	_____	1	1
Temporary	_____	_____	_____

March

Month

1945

Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans	1	9	2 hours
Walks or Hikes	1	14	2 hours
Ruins or Hist. House			
Other			
Total	2	23	

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	4	170	1 hour
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	4	170	

ATTENDED INTERPRETIVE STATIONS	DAYS
(Give Name or Type) Total	

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Kipuka Pumalu Trailside Exhibit	31	2,000	1/2 hour
Thruston Iawa Tube Trailside Exhibit	31	4,000	1/2 hour
Observatory	21	2,000	1/2 hour
(Give Name or Type) Total	83	8,000	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	2	110	1 hour
Displays and Exhibits			
Replies to Inquiries			
Other			

8,303
Total Receiving Interp. Serv.
37,029
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.)

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

RECEIVED AS FOLLOWS

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 OVERLOOKS, 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

RECEIVED AS FOLLOWS

April 1, 1946

MEMORANDUM: For the Superintendent.
Through the Chief Ranger.

SUBJECT: Daily report for the month of March.

Jobs which were done in March. Attended telephone lines extending from Hilina Pali, Makaopuhi and up to the end of the track trail, Manna loa section, installing poles, also testing telephones.

A Fire inspection was made in the Utility area, Volcano House, and up the old Dormitory, accompanied by Ranger Davis. Found that five C.T. qt. size were unsatisfactory and were put aside to be surveyed.

One day was spent helping Ranger Davis putting up fence around Wilwill plants, to protect them from goats locating the plants at Hilina Pali.

Spent five days at Halape, working on boundry line fence, Makahansu, putting up Hog proof wire, also blocking goats trail at the end of boundry line near sea coast Keauhau. One roll of Hogproof wire was installed. Fence is incomplete, needs more steel poles and one more roll of wire to complete the job.

Travel count, and Weekend duty were also attended to.

Goat control was performed once during the month. Goats destroyed---20.
Pigs---6---5 unborn.

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

JH:mp

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

April 8, 1946.

MEMORANDUM for the Acting Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for March.

No perceptible earthquakes were recorded during March, though 51 seismic disturbances were recorded at Mauna Loa and 44 at Kilauea.

There was a moderate accumulation of north tilt during the month or opposite to the normal for this season of the year. This^{is} not so surprising when one considers that the mean temperature for March was about 2°F below that for January and February. Westerly tilt was quite uniform and about normal for March.

A few of the cracks around the Halemauau rim opened slightly. A large block at the SW rim which had been in a precarious position since last September finally fell in.

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

<u>Week end</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
March 3	Slight NW	13	3.75
10	Very slight N	5	1.50
17	Slight WNW	14	4.00
24	Very slight NE	6	1.75
31	Very slight WNW	12	4.50

Work of R. E. Finch

In addition to doing some seismological routine, work was started in bringing some back records up to date. The manuscript for a Volcano Letter was completed and sent to the publisher.

Work of Howard A. Powers

A large part of his time was spent on seismological routine. Some time was spent in the computation and plotting of old tilt records. One trip was made to Kona to work on the seismograph. Three trips were made to the Hilo seismograph. The old drum clock was replaced by a synchronous motor. He talked to the Hilo rotary club on March 29.

Work of Guy C. Omer

During the time that he was at the Observatory he made trips to the Kona and Hilo seismographs. Some time was spent on a manuscript entitled "Differential Motion Seismograph." He was on leave March 8 - 22 inclusive.

R.H. Finch

R. H. Finch
Volcanologist.

REF:mp

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

April 8, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for March, 1946.

I. Maintenance

With the help of Ranger Hauanio the east fence of Bird Park was repaired in several places. Fallen Koa logs were responsible for the fence being knocked down.

II. Fire and Sanitation Inspection.

In this quarterly inspection all fire extinguishers and other fire fighting equipment were checked and sanitation conditions in the park investigated. (Seperate report has been prepared and submitted).

III. Reforestation project at Hilina Pali.

All but seven of the 40 trees that have been set out have been fenced adequately to prevent goat injury. All plants were dusted with D.D.T. for mite control.

IV. Liberation of fern weevil parasites at Hualalai.

On the 18 of March, 145 fern weevil parasites (*Ischiogonus syagrii*) were liberated on the south slope of Hualalai. These parasites were requested by the Board of Agriculture and Forestry through Mr. Fullaway, Territorial Entomologist. No further liberation of parasites will be necessary as the parasite was found established in the fern forest of Hualalai.

V. Miscellaneous activities

Travel Count, checking Koa plots, motor patrol, and rearing fern weevil parasites for liberation at Hualalai.

VI. Tour of duty at Haleakala.

The undersigned left for Haleakala on March 22d and engaged in the following activities through March 31:

Cleaning up observation house at summit; checking visitors into park, rolling boulders off park highway and shovelling debris off same, removing insulators and cross arms ~~6~~⁵ telephone poles at summit, moving telephone poles to a point near sliding sands trail and removing stone pillars at entrance to Army Radar Station.

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
HALEAKALA SECTION

Wailuku, Maui
April 6, 1946

Momorandum to the Acting Superintendent Gunnar O. Fagerlund:

The following narrative report for the month of March 1946, is respectfully submitted.

The announcement of the resignation of Superintendent Edward G. Wingate caused no comment on Maui. Mr. Wingate visited this island so seldom that few associated him with this section of the park. The announcement was not even carried in the Maui News.

The Lions Club, Chamber of Commerce, Rotary Club, and Business Womens Club have all written protests to the Director of the Park Service and to the Delegate to Congress over the lack of funds here at Haleakala. They are urging some kind of emergency funds in order that the park be open after 5:00 P. M. for sunset. All letters of protest were first shown to me in order that they be so worded as to not place the blame on this office.

General Weather Conditions in the Park. Strong winds have blown almost every day this month and have been accompanied by 21 days of rain.

Maximum Temperature-----66 degrees on the 4th.

Minimum Temperature-----39 degrees on the 8th and 9th.

Rainfall Total-----4.91 inches

Clear Days-----7

Partly Cloudy Days-----22

Cloudy Days-----2

Status of Work. With the aid of Ranger Davis the road was cleared of many large rocks dislodged by frost, all the rubbish along the road picked up, and the area around the Observation Station thoroughly cleaned. This work was done in winds that were estimated to blow at 40 miles per hour and accompanied by driving rain. Such work as this has lagged behind but is gradually being caught up so the park once more begins to look as though it were being cared for.

Park Inspection. Chief Ranger Gunnar O. Fagerlund made a short trip to this section during the month.

Labor Situation. Assignee A. L. Mitchell after being given time off to straighten up his affairs on Hawaii in preparation for his expected release came back to Haleakala very disgruntled and unhappy. After doing good work

here for so long it was surprising to see the change. He twice failed to come back up the mountain after taking his compensatory time. I finally was forced to restrict the man to the park in order to be sure he would not run away and try to go home--which he informed me were his intentions. A good talking to convinced Mr. Mitchell that the penalty he would receive if he deserted would be very severe and this finally brought him around so he did some work.

Equipment and Supplies. The old model A Ford power plant motor has been utilized to run the compressor so we are now able to blow up our tires and use a spray gun for painting. Formerly we used the Army Base Camp air for tires and the Ford power plant was used to generate D.C. for running the grinding wheel which has a D.C. motor.

Improvement of Approaches to Park. Although the Territorial Forestry's fencing project is not an improvement to the approach to the park it comes under this heading. The posts are in and some of the wire is up all the way from the rain forest south to the road at Puu Nianiau and from there parallel and below the road to the park entrance sign and east to Waikamoi gulch. Construction on the section from Waikamoi gulch along the park boundary to the edge of Koolau Gap has not yet been started.

Some of the new land owners along the road near the junction with the Kula Road have started to build houses with second-hand lumber acquired from Army surplus. Most of the houses started are of a cheap shack variety and will certainly not add to the beauty of the landscape.

Public Service Contractors. Messers. Buxton and Taliaferro were up to look at the Army Base Camp with an eye to using it for accommodations for park visitors. Although the camp has not yet been turned over to the park its release is expected any day.

Ranger, Naturalist and Guide Service. The 1942 Mauna Loa Eruption pictures were shown to Spreckelsville School (140 attendance) and to Baldwin High School (1000 attendance).

19 Boy Scouts were escorted through the crater on an overnight trip. Nature talks were given them on the way as well as a few of the stories of the crater, etc. An article appeared later in the Maui News describing the trip.

Several lectures were given to the Girl Scouts taking the ranger aid course. Help was also given this group in presenting their pennies to the Juliette Low World Friendship Fund. With the help of the Navy the pennies were dropped by parachute to the girls at the Paia athletic field. This stunt won the honors for the day as being the most unusual manner of presentation. A nice article appeared in the Maui News headlined "PENNIES FROM HEAVEN" which gave proper credit to the park and navy personnel.

Insect Control. Ranger Davis found an insect which is damaging the *Railiardia* at the higher altitudes here. He collected some specimens for further study.

Increase or Decrease in Travel. Bad weather caused a slight slump in the travel figures this month.

There were three times as many civilian visitors as in March last year while there were less than one-fourth the number of military visitors as this month last year.

Police Protection. Seven enlisted men from CASU 32 at N. A. S. Kahului were placed under arrest on the last day of the month for deliberately hiking into the crater and going off the trails. The outcome of this arrest will not be known for a time due to the confusion caused by the change in the law regarding civilian jurisdiction over military personnel on certain offences.

Accidents. Two accidents took place on the park road this month.

A Marine recon. truck ran off the road directly above our water-shed area. One man was killed, two were injured, while the remaining four were treated for shock. This accident was investigated by a board composed of Marine personnel and myself. A complete report will be sent in as soon as all information is tabulated. Loss of the Marine headquarters building in the seismic wave may have caused the loss of the pictures and part of the testimony on this accident.

One of the two men stationed at Red Hill wrecked his truck between 7,000 and 8,000 feet while coming down the hill. He escaped injury. A complete report on this accident will be sent in as soon as time permits.

Destruction of Exotic Animals. 27 goats were killed in the crater this month. Lt. Asher, U.S.M.C., and former park ranger from Yellowstone accompanied me on the only goat hunting trip this month.

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

10-23
(May 1923)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Hawaii NATIONAL PARK

FILE NO.

MONTHLY NARRATIVE REPORT

FEBRUARY 1946

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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Summary of February 1946 5-page Monthly Narrative Report for
Hawaii National Park

Introduction, p.1.- Secretary Ickes' resignation shock to Territory; U.S. Supreme Court decision holding martial law did not give military authority right to usurp functions of civil courts; Army order closed Kilauea Military Camp theatre to civilians; during 3 years of payroll deduction plan park employees purchased bonds at average of 14.9% per month, with average of 93.2% participation.

Weather, p.2.- Precipitation at Kilauea 16.29"; at Haleakala 4.55". Heavy rainstorm damages property in Kau district, record in two years.

Special Activities, p.2.- Superintendent out on sick leave practically entire month; awarded Congressional Selective Service medal; made major road maintenance estimate inspection with P.R.A. engineer.

Administrative Work, p.3.- Plans for feed shed at Kilauea Military Camp discussed and recommended for approval; complaint sent Commandant K.M.C. by Dept. of Interior of unauthorized construction in progress outside camp lease boundaries investigated and found to be not a fact. Report on Kipahulu Valley trip was submitted to superintendent by Mr. Baldwin February 4.

Research and Observation, p. 4.- Both Kilauea and Mauna Loa volcanoes quiet throughout month; two earthquakes felt locally.

Ranger Service, p.4.- Largely routine, with considerable time spent on telephone maintenance.

Cooperating Government Agencies, p. 5.- Territorial Entomologist requested park cooperation in rearing parasites to control the fern weevil, which is being given. Entomologists of U.S. Public Health Service are gathering data throughout the Islands on mosquitoes, and at their request an insect collection night trap has been put in operation at park headquarters.

Army Use of Haleakala Section, p.5.- Army A.M.S. Base Camp at Puu Niianian evacuated. U.S. Engineers have taken over but buildings not yet released to Park Service.

Forest Protection, p.5.- In Kilauea 9 pigs were destroyed and 31 goats; at Haleakala 5 goats.

Natural History Association, p.7.- 25 copies kodachrome film "Mauna Loa" received from Eastman Kodak; also 25 copies "Flora Hawaii National Park" by Otto Degener, and 20 copies Dr. Jagger's "Volcanoes Declare War". All for sale to public.

Travel, p.6.- At Kilauea for the month 35,109 visitors, of which 11,441 were in armed forces; at Haleakala these figures were 1,543 and 534.

Personnel, p. 7.- Howard A. Powers returned on February 1 after military furlough to his former job of Geologist, and Herbert J. Quick returned on the 25th on war transfer to resume his work as Foreman on Construction and Maintenance.

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March 1E, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of February, 1946.

Introduction

The abrupt resignation of Secretary Ickes on February 15 was a shock to many park employees and residents of the Territory. Throughout the Islands he had been generally held in high esteem and regarded as a staunch friend to the Territory. The following is quoted from an editorial in the Hilo Tribune Herald of February 15: "Secretary Ickes' characteristically blunt exit from the cabinet of President Truman is a matter of deep concern to Hawaii. The Territory has had a staunch friend through the years in the 'Old Curmudgeon' whose ability to use words like hammer blows made him famous over the world. But also known, among his enemies as well as his friends, was his unflinching honesty, no matter what the cost, and in his current squabble with President Truman over the nomination of Edwin Faulcy this reputation for honesty has weighed the scales of public opinion heavily in his favor."

Of great interest throughout the Territory was the decision of the U. S. Supreme Court on February 23 in the historic Harry E. White and Lloyd Duncan habeas corpus cases that arose during the time the islands were under martial law and the writ of habeas corpus was superseded by order of the military governor. The supreme court held in brief, in a 6 to 2 decision, that martial law does not give the military authorities the right to usurp the functions of civil courts even in wartime.

Acting on an order from army headquarters in Honolulu, the commanding officer at the Kilauea Military Camp closed the camp's moving picture theatre to civilians. Inasmuch as the theatre intruded an undesirable atmosphere into the park, the order met with our approval and it was recommended to the Regional Director that the Service express its concurrence in the order.

Following the Victory Loan Bond drive, a check up by the chief clerk showed that from September, 1942 when the payroll deduction plan went into effect to the end of December, 1945 employees purchased by payroll allotments \$28,742 in bonds, an average percentage per month of 14.9%, and in addition purchased \$2,171 in bonds outside of payroll deduction. The average percentage of employees participating per month was 93.2%.

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General Weather Conditions

Maximum and minimum temperatures at Kilauea headquarters were 72° and 42°. At the Haleakala ranger station these recordings were 65° and 37°. At Kilauea the month was uniformly wet, only one clear day being recorded. The total rainfall at Kilauea was 16.39" and at Haleakala 4.55". There were several heavy frosts at Haleakala.

Beginning the night of January 29-30 the entire island of Hawaii, but particularly the western portion of the Kau district, experienced excessively heavy rainfall. This particular storm lasted until the 3rd in Kau, causing an estimated \$200,000 damage to buildings, roads, telephone and power lines, growing crops, and ploughed fields. The road between Kapapala and Naalehu that was destroyed in part by the flood in April last year was still further damaged. During the four days of this storm at Kilauea 17.47" of rain fell but the fall was much greater in the vicinity of Naalehu. Except for Waiohinu, residents and visitors to the Kau district were marooned by floods for about 24 hours. From January 21 to February 14 there was a spell of 54 days during which the lowest daily rainfall was .05" and the total for the 24 days was 28.54". The last nine days of February were relatively dry.

Deep snow was deposited on Mauna Loa and Mauna Kea during the heavy storm, though the fall did not reach very low elevation. The lowest observed was about 10,000 ft. The mountain remained snow capped above 12,000 feet throughout the month.

Superintendent's Special Activities

The superintendent was out on sick leave from February 7 through the balance of the month, as a result of a wetting he got on January 31.

With P.R.A. Engineer Frank Carlson and the assistant to the superintendent he made an inspection of park major roads on January 31 and February 1 for the purpose of preparing maintenance estimates. At his suggestion the party also inspected the Kau section of the round-the-island road on the 31st during the heavy rain storm in order to evaluate drainage requirement for the reconstruction job that is to be advertised shortly. Flood waters prevented the party's return directly to headquarters and in attempting to return by going around the island, they succeeded in getting stalled in strong flood waters just before reaching Naalehu. The night was finally spent at Waiohinu after much wading, and the return to Kilauea made late the next day by way of Kau and the new across island road and Mountain View out-off road, both built by the army during the war.

Quick action by Engineer Frank Carlson, assisted by Mr. Baldwin, saved a young girl from possible serious injury or drowning. The car in which the girl and her family were riding had stalled in the rising flood. In attempting to jump across the ditch beside the road to the higher bank, the girl was knocked down by the force of the water running on the road and slipped into the ditch where she was swept down hill in the muddy water that was carrying large stones, etc. The driver of the mail car jumped in but missed her. Carlson, who was standing farther down, fortunately jumped in time to grab her, but the force of

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the water carried the two of them on a short distance until Mr. Baldwin jumped in and their combined weight slowed them enough to get hand holds on the bank and the girl was pulled out. With the help of Mr. and Mrs. Bradford Sumner of Kapapala ranch, who were also held up, the girl and her family were taken to Pahala hospital where it was found that Carlson had received numerous cuts and bruises. The girl was also cut but suffered most from shock and exposure. She has since completely recovered.

Together with other members of Selective Service local boards on the Island of Hawaii who have served for two or more years, the superintendent was awarded the Congressional Selective Service medal and certificate of merit at a public ceremony in Hilo on February 1. Local Board No. 1 of Oahu, Hawaii, of which he has been chairman, had the local distinction of being the only board that has served continuously since the beginning of Selective Service in 1940 without a change in membership.

Administrative Work

The assistant to the superintendent was at headquarters throughout the month. He had conferences with Colonel P.H. Wollaston, the new Commandant of Kilauea Military Camp, and his representatives concerning authorization to erect a feed shed at the camp. Plans for the shed were forwarded to the Director on February 20. Col. Wollaston received a notice from his superiors that the Interior Department had complained of unauthorized construction in progress outside of the K.M.C. lease boundaries. Col. Wollaston replied that no such construction was in progress but that several buildings - the motor pool, the prisoner-of-war compound, and the blacksmith shop - had been erected without first obtaining clearance through the park superintendent.

Recommendation was made to the Regional Director that steps be taken to get back the Hilina Pali bombing range from the Army, since it appears the War Department is trying to have it transferred to the Navy Department for cleaning up.

Surplus property procedure was looked into and letters written requesting transfer of Marine Corps expanded lumber now in Hilo to the park. Foreman Quick was assigned the job of handling surplus property acquisition.

Non-employee residents of park houses were notified to be prepared to vacate their quarters upon request any time after the next 30 days.

A report on the Kipahulu Valley trip was submitted by Mr. Baldwin to the superintendent on February 4.

Assignee Omer was assigned to the maintenance department for the last two weeks of February and alternate periods of two weeks thereafter.

The assistant to the superintendent and his wife made a courtesy call on Colonel Wollaston and his wife at K.M.C. on Sunday, February 24.

Research and Observation

Both Kilauea and Mauna Loa were quiet throughout the month. Two earthquakes were felt locally during the month. One of the shakes appears to have originated near the coast below Pahala and the other along the NE rift of Mauna Loa. A good record was obtained of a shake which originated along the lower SW rift of Mauna Loa. It was felt as Pahoehe in South Kona as a vertical drop without conspicuous horizontal motion. A total of 51 shakes was recorded at Mauna Loa and 27 at Kilauea. There was very little movement at any of the cracks measured either at the Halemaumau rim or along the Chain of Craters road.

Besides seismological routine and correspondence which took up most of the volcanologist's time, several days were spent in moving into another office in the Observatory building. Assignee Omer spent the first half of the month assisting in usual seismographic work. This was taken over by Geologist Powers upon his return to duty at Kilauea on the 18th.

An article on the Bulwer Petrel breeding on Keaoi Island off the shore of Hawaii National Park by Assistant to the Superintendent Baldwin was published in the January issue of Condor. In the same issue the report on the Midway Island bird survey of Fisher and Baldwin appeared.

The Chief Ranger spent practically his entire leave time on the exotic plant paper. He spent two days in the field with A. L. Mitchell checking and photographing Dr. Skottsberg's plots for studying plant colonization of lava flows, and also gave some assistance to Mr. Charles Schwartz of the Territorial Board of Agriculture and Forestry, who is studying game birds here.

Ranger Service

The Chief Ranger was on annual leave from February 18 to 31 inclusive. He devoted considerable time to revising the circular of general information, handling numerous items of correspondence, attended one meeting of the Toastmasters Club in Hilo, and spent one day in Hilo with the assistant to the superintendent and chief clerk in connection with obtaining surplus property. Rangers spent a great deal of time on telephone line maintenance, installing poles, and checking telephones. Phones tested extended from Makaopuhi, Hilina Pali, Mauna Loa. Some time was put in by two of the rangers building cat traps in order to get rid of stray cats running around the area. As a result 14 cats and 5 mongooses were destroyed. Two days were spent dismantling a garage at the CCC Camp, the lumber in which will be hauled up to the 13,000 ft. shelter to be used for horse stables. Painting and installing signs, week-end duty, and travel count were taken care of. Also motor patrol, checking fire equipment, checking Koa plots, pig and goat control.

Publicity

Following an interview with the superintendent, the Hilo Tribune Herald on February 10 carried a favorable front page story on the Kalapana addition and proposed road. Publicity was also given to the recreational possibilities of Mauna Kea where several parties have been to enjoy the excellent skiing.

Interpretation

At Kilauea 5 illustrated lectures were given in the park with an attendance of 84, and two outside with an attendance of 162. No lectures reported at Haleakala.

Forest Protection

Watering, weeding and dusting nursery plants continued throughout the month. No further propagation took place during this period.

At Hilina Pali considerable time was devoted to fencing the larger wiliwili plants (*Erythrina monosperma*). These were also dusted with D.D.T. for mite control.

Pig control around the Mauna Loa section and Chain-of-Craters resulted in 9 pigs being destroyed. Also goat control during the month diminished the goat population at Kilauea by 31, and in the Haleakala section by 5.

Cooperating Government Agencies

An insect collecting night trap was put in operation at park headquarters at the request of entomologists of the U.S. Public Health Service. Data is being gathered throughout the islands on the occurrence of mosquitoes.

Water samples from the park system were analyzed by the Public Health Service.

Charles Schwartz, recently employed by the Territorial Board of Agriculture and Forestry to make a game bird survey, called at the park office February 12 with his wife and two children. His wife holds a Doctor's degree in zoology. Assistant to Superintendent Baldwin spent considerable time with them orienting them on Hawaiian bird problems. Mr. Schwartz expressed interest in the native species and will gather data on the Hawaiian Goose if he can arrange to be in Hawaiian Goose range while working on the pheasant and quail.

Mr. David T. Fullaway, Territorial Entomologist, reported severe damage by the fern weevil at Hualalai and asked for Park Service cooperation in rearing the parasites (*Ischiogonus syagrii*) for liberation at this locality. Accordingly, 200 fern stipes (*Sadleria cyatheoides*) were collected and from this material over 50 parasites have already issued. Also emerging from this material is another parasite (*Eupelmus* sp.) which is also believed to be parasitic on the fern weevil larvae (*Syagrius fulvitaris*).

At Haleakala Mr. Colin G. Lennox, Chairman of the Board of Forestry and Agriculture, talked over visitor problems and suggested several plans for Territorial improvement of recreational areas in some of the Maui Forest Reserves.

The Ranger-in-charge at the Haleakala section reports the last man finally left the Army A.W.S. Base Camp at Puu Nianiau. When the company headquarters moved to the radar site at Kailua two enlisted men were left to guard the equipment at the Base Camp. One of these guards was released on points and the other stayed along for a few days, when he too was released and sent home. The 581st Company which controls the camp moved most of the gear out. The U.S.E.D. has now taken over and is in process of moving the last odds and ends down the mountain. The buildings have not been released to the park at this writing.

Mr. Nicholas Lycurgus, manager of the Volcano House in the park, was elected chairman of the County of Hawaii Police Commission at its annual meeting on February 8.

Improvements to Approaches to Park

The Territorial Forest Service has started fencing the land recently taken from Haleakala Ranch. The fence starts at the road on the north side of Puu Nianiau and runs almost north in line with the park boundary west of the ranger station. To avoid inserting another cattle guard on the territorial road, permission was given to place the fence parallel to the road up to our cattle guard just outside the park boundary.

Ranger Naturalist and Guide Service

Also at Haleakala the Girl Scouts enrolled in the Ranger Aide course were taken into the rain forest below Puu Nianiau to see if they could identify the native birds they had been studying. The weather was good and the class was able to see and identify the Pacific Golden Plover in the pastureland as well as Apapane, Iiwi, Maui Creeper, and Amakihi in the forest. The girls were pleased and a bit surprised as most were of the opinion that forest birds were so rare they were seldom seen.

Police Protection

On February 27 three men, all from Hilo, were questioned regarding their activities at Kalua and Hilina Pali. The men stated they arrived at Hilina Pali on February 25 and had camped at Kalua for two days. During this time they were gathering opihis. They were found to be ignorant of the park domain and of the park rules and regulations.

A complaint that persons in a car bearing the license number A2598 were shooting in the park was investigated. Since neither the offenders nor the complainant could be located in the park, the owner of the car was written warning him against such offenses.

Numerous patrols of park roads were made during the month.

Travel

At Kilauea there were 35,109 visitors of which 11,441 were in the armed forces, and at Haleakala these figures were 1,543 and 534.

Papers throughout the islands have been full of stories dealing with the expected influx of post-war visitors. Travel agencies estimate over 100,000 visitors annually and are much concerned over the serious shortage of hotel rooms, and are urging new hotel construction on all the islands. It is said that 1,000 new rooms are urgently needed.

Personnel

Two of our former employees returned this month to resume their former jobs after military furloughs, i.e., Howard A. Powers, Geologist, and Herbert J. Quick, Foreman of Construction and Maintenance. Both were warmly welcomed home.

Former Ranger (now Sgt.) Thompson Keahi, on military furlough, arrived in the park on January 30 to spend a period of leave. He had seen action in Italy, France and Germany and brought home interesting trophies and stories of his travels.

Natural History Association

Twenty copies of the kodachrome film "Mauna Loa" were received from Eastman Kodak Co.

Twenty-five copies of "Plants Hawaii National Park" were received from Otto Daganer, and 20 copies of Dr. Jagger's "Volcanoes Declare War" were received. All these items are for sale to the public. The Chief Ranger conferred with Mr. R. I. Baldwin of Hilo regarding the making of kodachrome slides for Natural History Magazines.

Visitors

Mr. Colin G. Lennox, Chairman of the Board of Forestry and Agriculture, paid a visit to both Kilauea and Haleakala.

Mr. and Mrs. Charles Schwartz and two children, Territorial Board of Agriculture and Forestry.

CAM

Edward G. Kingate,
Superintendent.

CORRECTION

THE PRECEDING DOCUMENT(S) HAS
BEEN REPHOTOGRAPHED TO ASSURE
LEGIBILITY
SEE FRAME(S)
IMMEDIATELY FOLLOWING

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Mr. and Mrs. Charles Schwartz and two children, Territorial Board of Agriculture and Forestry.

CAM

Edward G. Wingate,
Superintendent.

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March 12, 1946.

MEMORANDUM for Ranger Hjort.

Your monthly report for February mentions the fencing and planting that is to be done by the Territory on the land taken away from the ranch joining the park on the north boundary east of Puu Nianiau. You mention that the fence will parallel the road a short distance on park land to where the old fence line crosses at our cattle guard and that this is to be done to obviate a second cattle guard on the Territorial road.

I see no particular objection to the Territory erecting this short piece of fence on park land if it is necessary, though it should be handled by a permit from the Park Service approved by the Director. The thing that bothers me is your statement that thereby the park will lose the small triangular piece of land between the fence line and the park corner on Puu Nianiau. We of course have no authority to lose the use of any portion of the park either directly or indirectly and no planting of exotics may be done by the Territory in its reforestation program on any park land.

It is not clear in my mind just what the whole proposition is and before recommending approval of a permit to construct the fence, I would like to have a sketch map of the area in question showing the boundary of the land taken out of ranching by the Territory, the proposed fence line and any existing fences. It appears that the Territory proposes to join its fence to the Baldwin's fence at our cattle guard and that all the reforestry work will be done on the east side of the road north of our boundary. Is this correct? Or is it proposed to reforest on the Puu Nianiau side and plant up the hill?

You had best hold up any work by the Territory until this gets untangled and, if necessary, a permit approved by the Director.

Edward G. Wingate,
Superintendent.

Edward G. Wingate

to EGW:cm K. any further.
my of Gunnat. We found a good way to fence park.
This is all in error due to. poor wording in my Feb. report. The Terr. is losing the land in that they are not going to fence in Puu Nianiau above the road although this

March 12, 1946

MEMORANDUM FOR HARRY H. HORT

Your monthly report for February mentions the fencing and planting that is to be done by the Territory on the land taken away from the ranch joining the park on the north boundary east of Fun Mountain. You mention that the fence will parallel the road a short distance on park land to where the old fence line crosses at our cattle guard and that this is to be done to obviate a second cattle guard on the Territorial road.

I see no particular objection to the Territory erecting this short piece of fence on park land if it is necessary, though it should be handled by a permit from the Park Service approved by the Director. The thing that bothers me is your statement that thereby the park will lose the small triangular piece of land between the fence line and the park corner on Fun Mountain. We of course have no authority to lose the use of any portion of the park either directly or indirectly and no planting or excising may be done by the Territory in the restoration program on any park land.

It is not clear in my mind just what the whole proposition is and before recommending approval of a permit to construct the fence, I would like to have a sketch map of the area in question showing the boundary of the land taken out of ranching by the Territory, the proposed fence line and any existing fences. It appears that the Territory proposes to join its fence to the Baldwin's fence at our cattle guard and that all the restoration work will be done on the east side of the road north of our boundary. Is this correct? Or is it proposed to relocate on the Fun Mountain side and plant up the hill?

You had best hold up any work by the Territory until this gets unstalled and, if necessary, a permit approved by the Director.

Edward G. Wiggate,
Superintendent.

Edward G. Wiggate

*to W.H.H.: OK and proper.
with question. The fencing is being done on park land. It
action of land would cover 1/2 of the land and the fence
is being done on park land. The fence is being done on park land.
The fence is being done on park land. The fence is being done on park land.*

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

March 4, 1946.

MEMORANDUM for the Superintendent.

The monthly report for February 1946 for the Assistant to the Superintendent is submitted.

Administrative work

In the absence of the Superintendent for most of the month, many matters which came up were disposed of. The more important items included the following:

Conferences were held at KMC and at the park office with Col. P. H. Wollaston and his representatives concerning authorization to erect a feed shed at KMC. Plans for the shed were forwarded to the Director on Feb. 20. Col. Wollaston received a notice from his superiors that the Interior Department had complained of unauthorized construction in progress outside of the KMC lease boundaries. Col. Wollaston replied that no such construction was in progress but that several buildings - the motor pool, the prisoner-of-war compound, and the blacksmith shop - had been erected without first obtaining clearance through Supt. Wingate.

The park service expressed its approval of the action taken by military authorities to close the army theatre at KMC to the civilian public.

The recommendation was made to the Regional Director that steps be taken to get back the Hilina Pali bombing range from the Army, since it appears the War Dept. is trying to have it transferred to the Navy Department for cleaning up.

Surplus property procedure was looked into and letters written requesting transfer of Marine Corps expended lumber now at the Schultz Siding to the park. Foreman Quick was assigned the job of handling surplus property acquisition.

Non-employee residents of park houses were notified by memoranda handed to the occupants by the Chief Clerk to be prepared to vacate their quarters upon request any time after the next 30 days.

The Assistant to the Superintendent and his wife called upon Col. Wollaston and his wife at KMC on Sunday, Feb. 24.

A report on the Kipahulu Valley trip was submitted on Feb. 4.

Assignee Omer was assigned to the maintenance department for the last 2 weeks of February and alternate periods of two weeks thereafter.

Police work

A complaint that persons in a car bearing the license number A2598 were shooting in the park was investigated. Since neither the offenders nor the complainant could be located in the park, the owner of the car was written warning him against such offenses.

Patrols of park roads were made on the 4th, 16th, 18th, and 25th of the month.

Interpretation

The Mauna Loa movies were shown at the Observatory on Feb. 23 to 35 persons. A talk on Midway birdlife was given before the Mamūiki Audubon Society of Hilo on the 14th. This society held its reorganization meeting on that date. The following officers were elected.

President	Mrs. H. S. Baldwin
Vice President	G. O. Fagerlund
Secretary	R. I. Baldwin
Treasurer	Miss E. Tomoguchi

Cooperation with other agencies

An insect collecting night trap was put in operation at the park headquarters at the request of entomologists of the U. S. Public Health Service. Data is being gathered throughout the islands on the occurrence of mosquitos.

Water samples from the park system were analyzed by the public health service.

Charles Schwartz, recently employed by the Territorial Board of Agriculture and Forestry to make a game bird survey, called at the park office on Feb. 12 with his wife and two children. His wife holds a Doctor's degree in Zoology. Assistant to the Superintendent Baldwin spent considerable time with them orienting them on Hawaiian bird problems. Mr. Schwartz expressed interest in the native species and will gather data on the Hawaiian Goose if he can arrange to be in Hawaiian Goose range while working on the pheasant and quail.

Research

No time was available for research in February.

An article on the Bulwer Petrel breeding on Keaoi Island off the shore of Hawaii National Park by the Assistant to the Superintendent was published in the January issue of Condor. In the same issue the report on the Midway Island bird survey by Fisher and Baldwin appeared.

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

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

March 4, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for February, 1946.

000 General ✓

The Chief Ranger was on annual leave from February 18 to 21 inclusive.

Attended one meeting of Toastmasters Club. ✓

100 Administration ✓

The Chief Ranger spent considerable time revising the circular of general information.

Numerous items of correspondence ^{were} handled. One day was spent in Hilo with Mr. Baldwin and Mr. Kim in connection with obtaining surplus property.

200 Maintenance

Assignee Omer spent three days on telephone line maintenance.

400 Interpretation ✓

The scheduled program consisted of one illustrated talk each week. The Chief Ranger gave an illustrated talk at Hilo Center Youth Forum to 150 on February 11th. Mr. Baldwin talked on Midway Birds at the meeting of the Manu Iki Society in Hilo.

Research

The Chief Ranger spent practically his entire leave time on the exotic plant paper. Two days were spent in the field with A. L. Mitchell checking and photographing Dr. Skottsberg's plots for studying plant colonization of lava flows. The Chief Ranger gave some assistance to Mr. Charles Schwartz of the Territorial Board of Agriculture and Forestry, who is studying game birds here. ✓

Natural History Association

Twenty copies of the Kodachrome film "Mauna Loa 1942" were received from Eastman Kodak Co.

Twenty five copies of "Plants Hawaii National Park" were received from Otto Degener, and 20 copies of Jagger's "Volcanoes Declare War" were received. All these items are for sale to the public. The Chief Ranger conferred with R. I. Baldwin of Hilo regarding the making of Kodasides for Natural History Magazine.

600 Protection

Fire equipment was checked weekly. ✓

Several cattle were found in the 100-acre Koa plot. Though the fence is not broken it does not adequately exclude cattle. The vegetation has been damaged and the value of the enclosure for research purposes is thereby diminished.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

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Section 304
Reports
411 and 420

**MONTHLY STATISTICAL REPORT OF INTERPRETIVE SERVICES
IN NATIONAL PARK AREAS***
Hawaii National Park

120905

NUMBER OF PERSONS ENGAGED: Name of Area February
Interpretive Administrative Other Month
 Permanent 1 2 1946
 Temporary Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other			
Total			

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge	5	84	1 hour
Museum (Not connected with conducted trip)			
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	5	84	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
Total			

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Kipuka Puaulu Trailside Exhibit	28	1000	1/4 hour
Thorston Lava Tube Trailside Exhibit	28	2000	" "
Observatory	20	1000	" "
Total	76	4000	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	2	162	1 hour
Displays and Exhibits			
Replies to Inquiries	4		
Other			

4246

Total Receiving Interp. Serv.
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.)

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

RECEIVED AS FOLLOWS

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 TRAIL 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 OVERLOOKS, 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
HALEAKALA SECTION



Wailuku, Maui
March 1, 1946

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of February 1946 is respectfully submitted;

The last man finally left the Army A. W. S. Base Camp at Puu Nianiau. When the company headquarters moved to the radar site at Kailua two enlisted men were left to guard the equipment at the Base Camp. One of these guards was released on points and the other stayed alone for a few days. Finally the last survivor was released and sent home.

The 581st Co. which controls the camp moved most of the gear out. The U.S.E.D. has now taken over and is in the process of moving the last few loads of odds and ends down the mountain.

In spite of the fact that the forest of antenna poles and improperly placed buildings have been an eye-sore in the park we rather miss the activity that went on there. The camp has lost its appeal at night especially, as no lights are to be seen and there is usually a door or two banging away in the wind to make the place seem eerie.

The buildings have not been released to the park at this writing.

General Weather Conditions in the Park.

Maximum Temperature-----65 degrees on the 12th and 16th.
Minimum Temperature-----37 degrees on the 18th.
Rainfall Total-----4.55 inches.
Clear Days-----8
Partly Cloudy Days-----17
Cloudy Days-----3

Park Inspections by Other Governmental Officers. Mr. Colin G. Lennox, Chairman of the Board of Forestry and Agriculture, visited the park this month. He talked of the visitor problems and suggested several plans for Territorial improvement of recreational areas in some of the Maui Forest Reserves.

Maintenance. Several heavy frosts and one heavy rain again filled the road with rocks necessitating several man days labor to clear the highway.

Several days were also spent in hauling wood from the Naval Air Station

*Visitor
at 12
+ 14*

at Kahului to the saw at the Haleakala Ranch office where the wood was sawed with the help of some Navy men. The wood after being sawed is shared with the crew that helps cut it.

Improvements of Approaches to Park. The Territorial Forest Service has started fencing the land recently taken from Haleakala Ranch. The fence starts at the road on the north side of Puu Nianiau and runs almost north in line with the park boundary west of the Ranger Station. ✓

To avoid inserting another cattle guard on the Territorial road the fence is going to parallel the road up to our cattle guard just inside the park boundary. This will cause the loss of the piece of land above the road on Puu Nianiau but will be much better looking than having all of this hill planted but our pie shaped section.

Ranger Naturalist and Guide Service. The Girl Scouts enrolled in the Ranger Aid course were taken into the rain forest below Puu Nianiau to see if they could identify the native birds they had been studying. The weather was good and the class was able to see and identify the Pacific Golden Plover in the pastureland as well as Apapane, Iiwi, Maui Creeper, and Amakihi in the forest. The girls were pleased and a bit surprised as most were of the opinion that the forest birds were so rare they were seldom seen. ✓

Increase or Decrease in Travel. This short month did not equal last month in civilian figures but almost held its own on military figures. The arrival of two Naval Air Groups at N.A.S. Kahului helped keep military figures up.

It rained over three inches on Saturday the 16th and was windy and wet on the following Sunday so not many people ventured up the mountain on that weekend.

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

Four }
Prat }

Frank A. Hoyt
Frank A. Hoyt
Ranger-in-Charge

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

March 5, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for February.

Both Kilauea and Mauna Loa were quiet throughout the month.

Two earthquakes were felt locally during the month. One of the shakes appears to have originated near the coast below Pahala and the other along the NE rift of Mauna Loa. A good record was obtained of a shake which originated along the lower SW rift of Mauna Loa. It was felt at Pahoehe in S Kona as a vertical drop without conspicuous horizontal motion. A total of 51 shakes were recorded at Mauna Loa and 27 at Kilauea. Tilt was about normal.

There was but very little movement at any of the cracks measured either at the Halemaunau rim or along the Chain of Craters road.

Some of the data obtained during the month are shown in the following table.

<u>Week Ended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Feb. 3	Mod. SSE	5	1.25
10	Slight SW	6	5.00
17	Very slight WNW	8	4.75
24	Slight WSW	8	2.00

Work of R. H. Finch

Seismological routine and correspondence took up most of my time. Parts of several days were spent in moving into another office.

Work of Howard A. Powers

He arrived on Feb. 18 and has been occupied by seismological routine and in arranging his equipment.

Work of Guy C. Omer

He spent most of his time on normal seismograph and other routine prior to the return of Dr. Powers.

R. H. Finch

R. H. Finch
Volcanologist.

RHF:mp

RECEIVED AS FOLLOWS

February 28, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for February, 1946.

Public Contacts

<u>Talks</u>	<u>No.</u>	<u>Attend.</u>	<u>Duration</u>
Observatory	1	12	1 hour

Nursery

Watering, weeding and dusting nursery plants continued throughout the month. No further propagation took place during this period.

At Hilina Pali considerable time was devoted to fencing the larger wiliwili plants (*Erythrina monosperma*). These were also dusted with D.D.T. for mite control.

Cooperative project with Board of Agriculture and Forestry

Mr. David T. Fullaway, Territorial Entomologist reported severe damage by the fern weevil at Kualalal and asked for Park Service cooperation in rearing the parasites (*Tschigonus syagrii*) for liberation at this locality.

Accordingly, 200 fern stipes (*Sadleria cyatheoides*) were collected, and from this material over 50 parasites have already issued.

Also emerging from this material is another parasite (*Eupelmus* sp) which is also believed to be parasitic on the fern weevil larvae (*Syagrus fulvitaris*).

Protection

On February 27th three men namely, Samuel Kanapua, David Hoe, and Paul Kapu, all from Hilo were questioned regarding their activities at Kalua and Hilina Pali. The men stated that they arrived at Hilina Pali on Monday, Feb. 25th and had camped at Kalua for two days. During this time they were gathering opihi. They were found to be ignorant of the park domain and of the park rules and regulations.

Forest Protection

Since no flagrant violation had been committed the men were warned of the park rules and regulations and that any further poaching on their part would be subject to court action.

Miscellaneous activities

Motor patrol, checking fire equipment, travel count, checking koa plots, and goat control.

Six or more cattle are in the large Koa plot and are doing considerable damage to the Koa reproduction.

Eight goats were shot during the month.

Respectfully submitted,

C. J. Davis,
Park Ranger.

CJD/mp

CC - Chief Ranger

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

March 2, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Report of activities for the month of February, 1946.

A large proportion of my time was spent on telephone lines and phones checking up and repairing, covering the Mauna Loa - Mamalahoa, Uwekahuna, Halemaumau, Chain of Craters, Ainahou, and the Utility areas. An overhead line was installed from the park office to Hilo line across road, due to poor under ground cable on line No. 7.

New wiring and also a telephone was installed in Quarters No. 19.

Some time was spent posting telephone codes on all telephones within the park areas. A few patrols were performed and also, cats and pig control. Within the park areas, 14 cats and five mongoose were trapped and destroyed.

Eight traps were built for this work.

The dog control work, some have been removed to the pound by the K.M.C. But there are a few more left in camp. These are pending on the Colonel which he asked to wait till Mr. Wingate would be contacted for approval, to keep them in camp. Same as the Surigao's to this effect.

A few pig controls were performed, and 9 pigs were destroyed around the Mauna Loa section and the Chain of Craters. Performed one travel count at the Hilo Entrance.

A trip was made to Hilo to pick up Dr. Powers. One weekend duty was performed. Some time was spent on checking the K.M.C. boundary lines accompanied by Mr. Baldwin.

Some sign work was done, and also taking down some of the part taken down garage at CCC camp. This material is to be used for the horse shed at 13,000 ft. at Mauna Loa. A few telephone poles were installed at the Kokoalau section.

During some of my patrols, I observed that some of the top of Pali Aloha stone wall had been knocked out. To my estimation and according to evidence shown at that time, a car was backed up and bumped it off. Two pickup loads of rubbish was picked up along the Mamalahoa highway on the Kau section. Such as papers, empty paper boxes, wood boxes and empty bottles.

Suggest that a cleaning trip be made once a week on all park roads.

At the CCC camp, I observed that a rubbish dump was made. Scrap lumber, broken canec, papers, empty paper boxes, piled high, and is considered a serious fire hazard. Also, scrap iron, which I believe was hauled from the target range.

Most of the above work was accompanied by Ranger Hauanio, Jr.

Antonio B. Medeiros

A. B. Medeiros
Park Ranger.

ABM;mp

CC - Chief Ranger.

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

March 5, 1946.

MEMORANDUM: For the Superintendent.
Through the Chief Ranger.

SUBJECT: Daily report for the month of February. ✓

Work which was done in the month of February. Practically most of my time was spent on checking telephone lines, 10 - 11 - 9 - installing poles and also checking telephones. Phones tested extended from Makaopuhi - Hilina Pali - Mauna Loa. ✓

Building up cat traps in order to get rid of stray cats running around the area, setting traps in Utility area, Hotel, Dormitory, CCC Camp, and up at KMC were done. Fourteen cats and 5 mungoose^s were destroyed. Accompanied by Ranger Medeiros. ✓

Two days were spent with Ranger Medeiros, breaking down garage at CCC Camp. Lumber was piled up in work shed, prepared to be hauled to 13,000 shelter, to be used for horse stables. ✓

Painting and installing signs, week end duty, and also travel count were taken care off. ✓

Goat control was performed once during the month. Goats destroyed - 31. Accompanied by Thompson Kauhi. Pigs destroyed - 2. ✓

J. P. Hauanio, Jr.
J. P. Hauanio, Jr.
Park Ranger.

JPH:mp

CC - Chief Ranger.

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

Subject: Job Journal, Guy C. Omer, Jr., Month of February, 1946

I was not able to keep a daily diary during the time that I was working with the Maintenance gang, so I shall simplify this report by listing some of the jobs that I did during the Month of February

1. All normal seismograph and other M.V.O. routine up to the return of Dr. Powers.

2. One shift of Traffic Count at the Hilo Entrance.

3. worked on Telephone Line #7 (Milo Line). This line was repaired at two different times during the month. The cable across the road has developed a short. A simple replacement of drop wires on the cable poles was used to restore service the first time -- but after a conference with the Mutual Telephone trouble shooter, it was agreed to remove the defective cable from their lines at the next sign of trouble. Consequently, Tony and I strung a new aerial temporary lead (of army field wire) across the road later in the month. This cable must be replaced quite soon. The army field wire is good only for about six months of service.

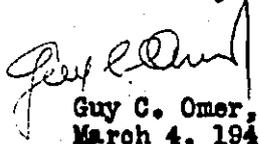
4. Report of trouble on Line #10. Searched line, found spur down to Jagger's office. Cut spur out of circuit since it was shorting the other telephones.

5. Worked on Telephone Line #8. Found a short which put entire Park residential system out of order. After search found short to be in defective wiring under Quarters #18. Tony and I made a complete replacement of this defective wiring and installed a telephone again in Quarters #18.

6. On Maintenance Gang during the last two weeks of February. Work done was mainly house painting.

7. Many other odds and ends, such as showing visitors around the Observatory; etc.

Submitted,



Guy C. Omer, Jr.
March 4, 1946

10-23
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Hawaii NATIONAL PARK

FILE NO.

SUPERINTENDENT'S MONTHLY REPORT

JANUARY, 1946

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

February 12, 1946.

MEMORANDUM for the Director.

There follows the report of activities in Hawaii National Park for the month of January, 1946:

General Weather Conditions

For the month maximum and minimum temperatures at Kilauea were 74° and 44° and at Haleakala ranger station these readings were 69° and 36°. Rainfall at Kilauea totalled 17.22" and at Haleakala 13.56". The snow storm on Mauna Loa which began on the 25th was observed on the 30th to have deposited snow as far down as the 9500 ft. level.

Superintendent's Special Activities

The superintendent was at Kilauea headquarters throughout the month. He attended two Selective Service Draft Board meetings at Olaa and one Y.M.C.A. Board of Directors meeting in Hilo.

The superintendent and assistant superintendent spent several days with Mr. Frank R. Carlson, Highway Engineer, Public Roads Administration, from Honolulu, who arrived at park headquarters on the 30th after spending a day on Maui inspecting the roads in the Haleakala section in company with Ranger Hjort. The heavy rains prevailing on the days Mr. Carlson was here made road inspection a hazardous job and in some places impossible. On the first day out, after they had inspected roads within the park area, they proceeded to inspect the Mamalahoa highway which Mr. Carlson was anxious to go over as it had suffered severely from a previous torrential downpour. They had not gone very far on that road when they were marooned by a flood ahead and on retracing their steps found the road had become blocked by a car having skidded sideways and completely blocking the road. They spent the remainder of that day and all next day getting back to headquarters as they were obliged to take a much longer route around the island, having to spend a night on the way.

A Staff Meeting was held on the 29th and various problems were discussed and action outlined.

Research and Observation

The volcanologist and one CPS assignee were entirely occupied with routine work and correspondence. The assignee gave one talk to the Rotary Club in Hilo.

RECEIVED AS FOLLOWS

- 2 -

column

A fume was observed over Mokuaweoweo from the north side of the mountain on the 26th.

During and following heavy rains on the 31st, dense steam clouds arose from the Halemaumau floor. Steam was escaping from nearly all cracks in the floor. The velocity of escape was sufficient to set up a swishing roar that could be heard a few feet back from the rim.

One large landslide from the NW notch of Halemaumau was observed at 4:25 PM on the 3rd. No perceptible earthquake occurred during the month, which is somewhat unusual. A total of 29 seismic disturbances were recorded at Kilauea and 30 at Mauna Ioa.

A slight opening was recorded at a few of the cracks along the Halemaumau rim. There was a slight SW tilt during the month.

The Chief Ranger spent several days preparing a report for the regional office on petroglyphs and spent some of his own time on the exotic plant paper. One package of plants was sent to Bishop Museum.

Two samples of Hene foods, collected on Sunday afternoons, were sent to Miss C. D. Miller for chemical analysis. A total of 8 samples has now been sent, and this completes the list. It remains to receive results of the analysis.

Two more new insects from the park have been described by Mr. Fred Bianchi, Assistant Entomologist of the U.S.P.A. They are Euplothrina davisii (Bianchi) and Karyothrips californica (Bianchi). Another insect, Heriothrips normani (Hood) is a surprising new record for the Territory.

Ranger Service

Ranger Medeiros was on annual leave from January 1 through January 29. Ranger Davis spent considerable time on the reappraisal of government quarters. Sketches of floor plans were completed for the appraisal committee. One two-day travel count was made. The Chief Ranger prepared the annual report on Grazing of pack and saddle stock, the Fire Atlas, and with Ranger Davis prepared the Annual Forestry Report. A considerable amount of time was given to handling correspondence. One Ranger meeting was held.

Maintenance

Assignee Omer installed replacement ringer at switchboard. Ranger Hauanio spent considerable time on telephone line maintenance, which is becoming more difficult because new poles are needed throughout. Hauanio also prepared and installed a number of signs. The sand process now used appears to deter name writers from using the signs for this purpose. The process consists of applying a coat of varnish after the sign is painted and sprinkling white sand on the wet varnish. When dry another coat of varnish is put on.

RECEIVED AS FOLLOWS

- 3 -

Interpretation

The scheduled interpretive program for January consisted of one illustrated talk per week. The Chief Ranger gave one illustrated lecture to 70 members of the 477th Observation Battalion in Hilo, and on the 17-18th gave 8 illustrated lectures in the Kona district for 6 schools, one P.T.A., and a group of Kona Waena teachers, the total attendance of which was 665. The talks in the Kona district were arranged by the Supervising Principal of West Hawaii Schools. In all a total of 19 lectures were given, with a total attendance of 965.

A bird talk was given to 8 persons on January 20 and a talk on Kipahulu Valley by Mr. Paul E. Baldwin before the Journal Club.

Mr. & Mrs. Osbourne, of Honolulu, were taken out on a nature walk at the request of Mr. Duncan of Olae.

Forest Protection

Ranger Davis made a trip to Hilina Pali for the purpose of checking the wiliwili seedlings. All were found to be growing well.

He also visited the rare Hibiscadelphus on the Keauhou Ranch and it was found to be free of thrips and in good vegetative growth. It was dusted with 3% rotenone as the thrips population on nearby vegetation was moderately heavy.

About three dozen hibiscus cuttings were set out at the nursery in the early part of the month to serve as grafting stock for the Hibiscadelphus sciona.

Six Hau Kuahuna (Hibiscadelphus malalainensis) seedlings were transferred to the Board of Agriculture and Forestry Nursery at Hilo.

One "pig control" operation was performed around the Punahuluhulu and Aloi areas with 10 pigs destroyed, while on the slopes on Mauna Loa 1 pig and 8 goats were likewise disposed of. At Haleakala section 9 goats were destroyed.

Protection

A few patrols were made. The fire equipment was inspected weekly. The Observatory and Naturalist Building was cleaned up and the fire hazard there reduced considerably. The Chief Ranger spent three fourths of a day giving instructions on use, care, and operation of the M-1 carbine.

Ranger Davis checked the Mauna Loa Koa plots.

Cooperating Government Agencies

U.S.E.D. commenced obliteration of war/ damage on the Kau Desert. The Chief Ranger inspected the work and found the dragging with rail to be effective.

RECEIVED AS FOLLOWS

- 4 -

Use of Park Facilities

On the basis of counts made during December and January, it appears that the lunch time use of picnic grounds averaged around 250 persons for each of these months. Places recorded as used were Kipuka Puauku, Summer Camp, Alealea, Makaopuhi, Puhimau, Bird Park, and Mauna Loa gate. The last five are outside of designated areas. Perhaps the public has a tendency to use (1) places of natural attractiveness, (2) places not marred by physical improvements, and (3) places away from other people. Nevertheless, most picnickers conformed to regulations, as the Kipuka Puauku picnic ground received much more use than any other place. We plan to have some evening counts made so that the evening use of the picnic areas can be estimated.

Travel

At Kilauea there were 26,755 visitors of which 6,878 were in the armed forces, and at Haleakala these figures were 2,055 and 575.

An analysis of a series of travel counts taken in November was made for the purpose of revising the computation procedure. It is found that the ratio of civilian travel during the evening and early morning to travel during the day has increased by 29 per cent since February 1944, while military travel has remained the same in this respect.

Natural History Association Activities

With the help of Ranger Davis all Natural History Association property was inventoried. The Association held a meeting in the Observatory and Naturalist Building on the evening of January 11. Officers were elected and considerable business was handled. The President prepared and forwarded to the Directors the annual report of the Hawaii Natural History Association.

Visitors

Commander C. E. Peterson, U.S.N.R., architect, on military leave from the park service, was in the park a few days at the beginning of the month.

The Postmasters of the Island of Hawaii held a convention at the Volcano House on Sunday, January 20, with dinner in the evening. They were addressed by the superintendent and Ranger Davis gave an illustrated talk on the 1942 eruption.

The Lions International group gathered at the Volcano House on Saturday afternoon, January 26, for a meeting. Some very worthwhile talks were made by a number of the prominent visitors, the most outstanding being that of Dr. Romero Collazo of Havana, Cuba, President of Lions International, to whom the superintendent presented a Hui-O-Pele membership certificate. Dinner was served at six o'clock, followed by a pleasant social evening. Dr. Collazo was given special attention by the superintendent on the 26th and 27th, including a talk on the park service and conservation and a park tour. Ranger Davis showed the group the 1942 eruption film.

Edward G. Wingate
Superintendent.

CAM

Original & 5 carbons to Director
2 cc's to Regional Director
1 white file copy
1 yellow copy

HAWAII NATIONAL PARK



Picture of Supt. Wingate presenting a Hui-O-Pele membership certificate to Dr. Romero Collazo

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

HAWAII NATIONAL PARK

HAWAII

February 11, 1946.

MEMORANDUM for the Superintendent.

SUBJECT: Chief Ranger's Narrative Report for January, 1946.

100 - Administrative.

Ranger Medeiros was on annual leave from January 1 through January 29. Ranger Davis spent considerable time on the reappraisal of government quarters. One two-day travel count was made. The Chief Ranger prepared the annual report of Grazing of pack and saddle stock, the Fire Atlas, and with Ranger Davis prepared the Annual Forestry Report.

A considerable amount of time was given to handling correspondence.

One Ranger meeting was held.

200 - Maintenance.

Assignee Omer installed replacement ringer at switchboard.

Ranger Hauanio spent considerable time on telephone line maintenance, which is becoming more difficult because new poles are needed throughout. Hauanio also prepared and installed a number of signs. The sand process now used appears to deter name writers from using the signs for this purpose. The process consists of applying a coat of varnish after the sign is painted and sprinkling white sand on the wet varnish. When dry another coat of varnish is put on.

300 - Activities of Other Agencies in the Park.

U.S.E.D. commenced obliteration of ^{war damage} roads on the Kau Desert. The Chief Ranger inspected the work and found the dragging with rail to be effective.

400 - Interpretation

The scheduled interpretive program for January consisted of one illustrated talk per week. The Chief Ranger gave the following talks outside the park:

Jan 4	Hilo to	70	477th Obs. Bn.
17	Napoopoo	160	Napoopoo School.

Jan	17	Kealahakua	to	30	Konawaena Teachers
	17	Hookena		100	P.T.A.
	18	Kealahakua		35	Konawaena students
	18	"		40	" "
	18	"		40	" "
	18	Holualoa		200	Holualoa School
	18	Keauhou		60	Keauhou School

All but the first were talks given during a two-day trip to Kona and were arranged by Cecil Dotts, Supervising Principal of West Hawaii Schools.

Natural History Association Activities.

With the help of Ranger Davis all Natural History Association property was inventoried. The Association held a meeting in the Observatory and Naturalist Building in the evening of January 11. Officers were elected and considerable business was handled. The President prepared and forwarded to the Directors the annual report of the Hawaii Natural History Association.

Research.

The Chief Ranger spent several days preparing a report for the regional office on petroglyphs and spent some of his own time on the exotic plant paper. One package of plants was sent to Bishop Museum.

500 - Use of Park Facilities.

Visitors

Cmdr. C.E. Peterson, U.S.N.R., architect, on military leave from the park service was in the park a few days at the beginning of the month.

600 - Protection.

A few patrols were made. The fire equipment was inspected weekly. The Observatory and Naturalist Building was cleaned up and the fire hazard there reduced considerably. The Chief Ranger spent three fourths of a day giving instructions on use, care, and operation of the M-1 carbine.

Ranger Davis checked the Mauna Loa Koa plots.

Gunnar O. Fagerlund
Gunnar O. Fagerlund
Chief Ranger.

GOF:mp

RECEIVED AS FOLLOWS

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

January

Interpretive Administrative Other
Permanent one two
Temporary

Month
1946

Year

CONDUCTED TRIPS	NO.	ATTENDANCE	DURATION
Auto Caravans			
Walks or Hikes			
Ruins or Hist. House			
Other			
Total			

TALKS	NO.	ATTENDANCE	DURATION
Campfire			
Hotel or Lodge			
Museum (Not connected with conducted trip)	6	87	1 hr.
Orientation (Not connected with conducted trip)			
Other (Not connected with conducted trip)			
Total	1	87	

ATTENDED INTERPRETIVE STATIONS	DAYS	ATTENDANCE	DURATION
(Give Name or Type) Total			

UNATTENDED INTERPRETIVE DEVICES	DAYS	ATTENDANCE	DURATION
Kipuka Puulu, Trailside Exhibit	31	1,300	1/2 hr.
Thurston Lava Tube, Trailside Exhibit	31	2,600	"
Observatory	24	1,300	"
(Give Name or Type) Total	86	5,200	

INTERPRETIVE ACTIVITIES OUTSIDE OF PARK AREA			
	NO.	ATTENDANCE	DURATION
Broadcasts			
Talks	9	745	1 hr.
Displays and Exhibits			
Replies to Inquiries	3		
Other			

6,032
Total Receiving Interp. Serv.
26,755
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.)

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

RECEIVED AS FOLLOWS

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 OVERLOOKS, MAYSIDE 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 ENCLOSED 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 5TH OF THE MONTH FOLLOWING THAT COVERED BY THE REPORT.

120905

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



Wailuku Maui
Feb. 1, 1946

Memorandum to the Superintendent Edward G. Wingate:

The following narrative report for the month of January 1946 is respectfully submitted;

Two fighter squadrons have arrived at the Kahului Naval Air Station. These squadrons are to train at this base. More are expected soon and if they arrive it may cause the reopening of Puunene Naval Air Station. These men are the first to arrive since the end of hostilities.

General Weather Contitions

For the first time in four years a normal amount of rain has fallen during this month. The 13.56 inches that fell this month was spead over so many days that except for one heavy spurt on the 17th there was hardly any washing.

The entire island received its share of rain as the anti-trade storm was of a general nature.

Snow fell on for different days at the summit. There was 6 inches on the parking area on Saturday the 26th at 11:30 p.m. but heavy rains melted it down to less than 2 inches by the time the Sunday crowd arrived.

Maximum temperature-----69 degrees on the 1st or 2nd.
Minimum temperature-----36 degrees on the 18th.
Rainfall total-----13.56 inches
Clear days-----20
Partly cloudy days-----2
Cloudy days-----9

Park inspections by Other Governmental Agencies

Frank R. Carlson of the Public Roads Administration visited the park on the 29th to inspect the park road.

Labor Situation

Mrs. Hjort who has been acting as park warden for a year decided to take up houskeeping again.

Help is still very scarce on Maui. With the Naval Air Stations booming there are plenty of high pay jobs available. The navy is busy converting unused buildings into apartments for navy families. This type of work was formerly done by the See Bees but is now handled entirely by civilian employees.

The Plantations are badly in need of men too so they grab up every returning veteran to the extent that only one person could be found that was interested in the park warden job open here. Many vetrans have been contacted and the employment office has helped but no other intrested parties have been found.

Equipment and Supplies

The ten new tires and tubes ordered in October arrived this month.

Maintenance

Unusually heavy freezing has caused many rocks to fall onto the road thus necessitating several man days labor in order to keep the road open to the public.

Ranger Service

The 1942 Mauna Loa Eruption pictures were shown at three U.S.O. halls this month to a total of about 300 servicemen.

Every Wednesday on which there was school the ranger aid course was taught to a group of girl scouts at Baldwin High School.

Two boy scout meetings were attended. Aid was given the cubs in the form of Mrs. Hjort volunteering her services as a den mother and I as a den dad for cub pack 8.

Visitors

Dr. Ramiro Collazo, president of Lions International, visited the park on the 28th. He gave his address as Havana Cuba.

Destruction of Exotic Animals

Nine goats were killed in the park this month. One trip was made into the crater with the Howard Powers family and mine along. Powers and I killed 8 goats. The other goat was killed Kalahaku Pali later in the month.

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

Baldwin

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

^{February}
January 8, 1946

MEMORANDUM for the Superintendent:

The monthly report for the Assistant to the Superintendent for January 1946 is submitted.

Monthly travel

An analysis of a series of travel counts taken in November was made for the purpose of revising the computation procedure. It is found that the ratio of civilian travel during the evening and early morning to travel during the day has increased by 29 percent since February 1944, while military travel has remained the same in this respect.

Use of picnic grounds

On the basis of counts made during December and January, it appears that the use of picnic grounds averaged around 250 persons for each of these months. Places recorded as used were Kipuka Puaulu, Summer Camp, Alealea, Makaopuhi, Puhimau, Bird Park, and Mauna Loa gate. The last five are outside of designated areas. Namakani Paio, though a designated area, was not used. Perhaps the public has a tendency to use (1) places of natural attractiveness, (2) places not marred by physical improvements, and (3) places away from other people. Nevertheless, most picnickers conformed to regulations, as the Kipuka Puaulu picnic ground received much more use than any other place. ✓

Some evening counts should be made so that evening use of the picnic areas can be estimated. ✓

Administrative work

Letters were written on various items of park business. Patrols were made on the main park roads and the Mauna Loa truck trail. A report was submitted on the use of park cars during October, November, and December. Two pig hunting passes were issued to Alfred Pauline. Miss Mack was given two driving lessons.

A ranger meeting and a staff meeting were attended on Jan. 25. As a result of a discussion in the latter, the park office was held open on Sat. morning, Jan. 26. The only visitor to the office during this rainy morning was Alfred Pauline in quest of a permit. ✓

Sketches of floor plans were completed for the appraisal committee. ✓

A subcycle converter ringer was borrowed temporarily from the Mutual Telephone Company and installed at the park switchboard. ✓

Interpretation

A bird talk was given to 8 persons on Jan. 20, and the Mauna Loa movies were shown to 30 persons on Jan. 30, at the Observatory. A talk on Kipahulu Valley was given before the Journal Club. ✓

Mr. and Mrs. Osbourne, of Honolulu, were taken out on a nature walk at the request of Mr. Duncan, of Oloa. ✓

Research

Two samples of Nene foods, collected on Sunday afternoons, were sent to Miss C. D. Miller for chemical analysis. A total of 8 samples has now been sent, and this completes the list. It remains to receive results of the analysis. ✓

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

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

HAWAII

February 5, 1946

MEMORANDUM for the Superintendent.

SUBJECT: Report of the Hawaiian Volcano Observatory for January.

✓ Fume was observed over Mokuaweoweo from the north side of the mountain on January 26.

✓ During and following heavy rains on January 31 dense steam clouds arose from the Halemaumau floor. Steam was escaping from nearly all cracks in the floor. The velocity of escape was sufficient to set up a swishing roar that could be heard a few feet back from the rim.

✓ One large landslide from the NW notch of Halemaumau was observed at 4:25 pm on January 3.

✓ No perceptible earthquake occurred during the month which is somewhat unusual. A total of 25 seismic disturbances were recorded at Kilauea and 30 at Mauna Loa.

✓ A slight opening was recorded at a few of the cracks along the Halemaumau rim.

✓ There was a slight SW tilt during the month.

Some of the data obtained during the month are shown in the following table:

<u>Weekended</u>	<u>Tilt</u>	<u>Seismic disturbances</u>	<u>Seismicity</u>
Jan 6	Very slight NW	9	4.00
13	" " N	3	1.50
20	" " WNW	3	1.25
27	Slight SSE	8	3.00

Work of R. H. Finch

Some time was spent in filing seismograms. Most of my time was taken up in seismological routine and in tending to correspondence.

Work of Guy C. Omer

✓ He assisted in the seismological routine tended to the radio time checks, did some janitor work around the Observatory. Most of one day was taken up in giving a talk to the Hilo Rotary Club. He was absent 2½ days on leave and 2 days on sick leave.

R.H. Finch

R. H. Finch
Volcanologist.

REF:mp

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

February 5, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Daily report for the month of January.

Jobs done during the month of January, helping Ranger Davis on fire inspection, checking fire extinguisher's around residencial area, utility, Volcano House, Dormitory, and on all park vehicle's, practically all were found in working order with the exception of three, which were put out to be surveyed.

Most of my time was spent on checking shorted telephone lines and also phones. By checking the lines, I walked in the Kilauea Iki crater line to Summer Camp part way to Devil's Throat, also part way to Makaopuhi. To Ainahou and down to Hilina Pali. I found that lots of poles were out and should be replaced.

End of truck trail, a new garter was installed, also water tank, checked and forset replaced. Fire Catche No. 2, while jacking up water tank, I found that the bottom part of the tank was leaking and if we have a spare tank, I think it would be better to put up a new one.

Painting and installing sign's at craters and speed limits signs at Halemauani were put up.

Pigs and goats destroyed.

One pig and 8 goats, Mauna Loa section. ✓


John Hauanio, Jr.
Park Ranger.

CC - Chief Ranger
Files

JH:mp

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

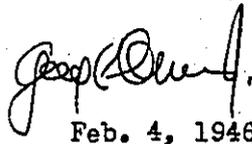
Subject: Job Journal, Guy C. Omer, Jr., Month of January, 1946

- Jan. 1 - Tue - Holiday, but went to Mt. View Hospital with other Park families for examination.
- Jan. 2 - Wed - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph. Was sick in afternoon.
- Jan. 3 - Thu - Home sick in morning. went to Mt. View Hospital with Fagerlund in afternoon. Made the morning change of the Bosch-Omori seismograph.
- Jan. 4 - Fri - Went to Hilo and picked up monthly Food order. Had a short conference with Bill Eller about his seismograph.
- Jan. 5 - Sat - Prepared this Job Journal for Dec. Copies to Wingate; short copies to Finch & Fagerlund. Prepared Food requestion for Kim. Checked the operation of a motor for use in the Eller seismograph. Made the morning change of the Bosch-Omori seismograph.
- Jan. 6 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Jan. 7 - Mon - Made the morning change of the Bosch-Omori seismograph. Worked on a mathematical analysis of a seismograph operation.
- Jan. 8 - Tue - Janitor work in Obs. Bldg. Made the morning change of the Bosch-Omori seismograph. Further analysis of seismograph.
- Jan. 9 - Wed - Prepared fixing fluid and kerosene for the Bosch-Omori cellar. Made a radio time check of our standard clock. Made the morning change of the Bosch-Omori seismograph. Some work on seismograph analysis.
- Jan. 10 - Thu - Made the Mauna Loa seismograph trip. More Janitor work in Obs. Bldg. Made the morning change of the Bosch-Omori seismograph.
- Jan. 11 - Fri - Picked up 5 gals. of kerosene for Obs. use. Serviced Car #35 for Sat. Mauna Loa trips. Collected materials for Halemaumau survey. Started to prepare talk for Rotarians. Made the morning change of the Bosch-Omori seismograph.
- Jan. 12 - Sat - Made the Mauna Loa seismograph trip. Halemaumau survey from one bench-mark until rain made work impossible. Made the morning change of the Bosch-Omori seismograph.
- Jan. 13 - Sun - Day off - but made the evening change of the Bosch-Omori seismograph.
- Jan. 14 - Mon - Walked the Halemaumau spur telephone line. Found 2 poles down. Reported this to Fagerlund. Took Plane Table shots from the other bench-mark for halemaumau survey. Made the morning change of the Bosch-Omori seismograph.
- Jan. 15 - Tue - Worked on the Halemaumau map. Computed elevations. Made the morning change of the Bosch-Omori seismograph.
- Jan. 16 - Wed - Attempted a radio time check of our standard clock (no signal) Completed computations, etc. on the Halemaumau survey. Made the morning change of the Bosch-Omori seismograph.

Omer - pg. 2

- Jan. 17 - Thu - Prepared talk to be given before Rotarians. Made the morning change of the Bosch-Omori seismograph.
- Jan. 18 - Fri - Drove Dr. Flowers to Hilo N.A.S. Gave talk before Rotarians. Picked up latter part of my Food order. Made the morning change of the Bosch-Omori seismograph.
- Jan. 19 - Sat - Made a radio time check of our standard clock. Reset and readjusted clock. Other work on clock. Made the morning change of the Bosch-Omori seismograph.
- Jan. 20 - Sun - Made the Mauna Loa seismograph trip. Made the morning change of the Bosch-Omori seismograph.
- Jan. 21 - Mon - With Finch, made pictures of the side walls of Halemaumau for use in survey. Made a radio time check of our standard clock. Prepared fixing fluid for the Bosch-Omori seismograph. Installed a temporary ringer into permanent position at the Park Office Telephone switchboard. Made both morning and evening changes of the Bosch-Omori seismograph.
- Jan. 22 - Tue - Cleaned up the Obs. Bldg. Made the morning change of the Bosch-Omori seismograph.
- Jan. 23 - Wed - With Finch, hauled paper for use in the Obs. Some theoretical work. Made the morning change of the Bosch-Omori seismograph.
- Jan. 24 - Thu - On leave for $2\frac{1}{2}$ days -- but came down sick!
- Jan. 25 - Fri - On leave, but sick
- Jan. 26 - Sat - On leave, but sick (more of the dysentery!)
- Jan. 27 - Sun - Day off, but sick
- Jan. 28 - Mon - sick
- Jan. 29 - Tue - recovering from sickness
- Jan. 30 - Wed - Attempted radio time check of our standard clock (radio not working). Return U. of H. Book. Brought records up-to-date. Cleaned up master clock and relay contacts (no hour marks). Made the morning change of the Bosch-Omori seismograph.
- Jan. 31 - Thu - Made the morning change of the Bosch-Omori seismograph. Some special work. On Traffic Count at Hilo Entrance during afternoon.

Submitted,


Feb. 4, 1946

Jarvis

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HAWAII NATIONAL PARK
HAWAII February 1, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Monthly narrative report for January, 1946.

Public Contacts

<u>Talks</u>	<u>No.</u>	<u>attend.</u>	<u>duration</u>
Observatory	3	40	2½ hrs.

Nursery

Six Hau Kuahiwi (*Hibiscadelphus kahalalensis*) seedlings were transferred to the Board of Agriculture and Forestry Nursery at Hilo on January 3rd.

The rare *Hibiscadelphus* on the Keauhou Ranch was visited on January 11th and was found to be free of thrips and in good vegetative growth. It was dusted with 3% rotenone as the thrip population on nearby vegetation was moderately heavy.

About three dozen hibiscus cuttings were set out at the nursery on January 10th to serve as grafting stock for the *Hibiscadelphus* scions. The latter will be obtained when the tree is large enough. (About three months).

One trip was made to Hilina Fali for the purpose of checking the wiliwili seedlings. All were found to be growing well.

Reappraisal of Government Quarters

Considerable time was devoted to this assignment during the month. Sketches in triplicate of all quarters have been completed.

Inspection of desert impact area

The undersigned was on hand January 15th to pass on instructions regarding the restoration of this area and to inspect dragging operations. Of the several types of drags used the heavy rail drag seems to be giving the best results.

Instruction in firearms (Carbines)

Some time was devoted to receiving instruction from Chief Ranger Fagerlund on the use and care of carbines. A trip was made to the target range where we practiced what the chief preached.

Miscellaneous activities

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

While patrolling the Bird Park area it was observed that a koa tree had fallen across the fence in the north east section.

Two more new insects from the park have been described by Mr. Fred Bianchi, Assistant Entomologist of the H.S.P.A. They are *Haplothrips davisii* (Bianchi) and *Karnyothrips dollicornis* (Bianchi). Another insect, *Merothrips Morgani* (Hood) is a surprising new record for the Territory. ✓

Respectfully submitted,

Clifton J. Davis
Clifton J. Davis
Park Ranger.

CC - Chief Ranger.
CC - Files.

CJD:mp

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

February 1, 1946.

MEMORANDUM for the Superintendent.
Through the Chief Ranger.

SUBJECT: Report of activities for the month of January, 1946.

From January 1, 1946 through January 29, 1946,
off on annual leave.

One travel count was performed at the Hilo entrance.
Some repair work was done on the saddle room roof, and also
some time was spent on sign painting work.

Respectfully submitted,

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

ABM:mp



MEMORANDUM FOR THE SUPERINTENDENT

(Through the Chief Ranger)

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

A considerable amount of time was spent on checking and re-pairing the telephone line along the Mauna Loa section. One travel count was performed at the Hilo entrance, and also a weekend duty.

Some time was spent bringing back riding, pack equipment, and horses from end of Mauna Loa truck trail to saddle room corral.

Some sign painting work was done at the paint shop.

Two patrols were performed, covering the Chain-of-Craters, Halemaumau, Bird Park, the old Alanhow road from the Lava Tube to Puuhuluhulu and the Mamalahoa highway within the park areas.

One "pig control" work was performed around the Puuhuluhulu and Aloi areas. Ten pigs were destroyed. Of these, seven were un-born.

From December 19, through December 31, 1945, on leave.

*Use in your Report
Forest Protection*

*A. B. Medeiros
Ranger*

*10 + 1 = 11
4 goats*