

**1966-1967**

# **REPORT**

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**DEPARTMENT OF LAND AND NATURAL RESOURCES  
STATE OF HAWAII**

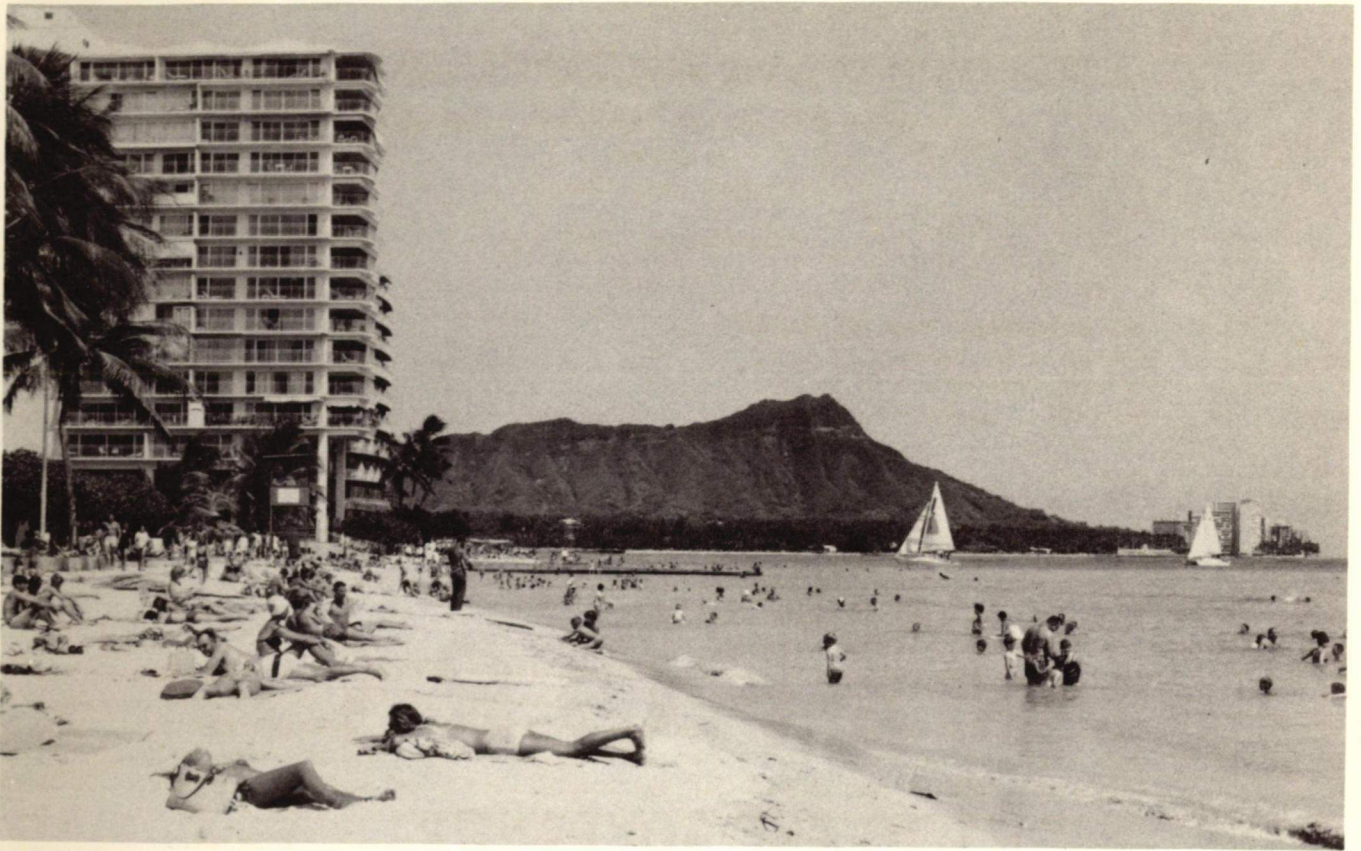
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DEPARTMENT OF LAND AND NATURAL RESOURCES  
STATE OF HAWAII

**1966-1967**  
**REPORT**  
**TO THE GOVERNOR**

**July 1, 1966 to June 30, 1967**  
(inclusive)

**HONOLULU, HAWAII**  
**December, 1967**



*"Truly effective conservation is that which is intelligently conceived and carried out for the development, enhancement, and protection of our natural resources for the present and future use and enjoyment of the people."*

JOHN A. BURNS  
GOVERNOR OF HAWAII



DIVISIONS:  
CONVEYANCES  
FISH AND GAME  
FORESTRY  
LAND MANAGEMENT  
STATE PARKS  
WATER AND LAND DEVELOPMENT

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621  
HONOLULU, HAWAII 96809

November 6, 1967

The Honorable John A. Burns  
Governor of Hawaii  
Iolani Palace  
Honolulu, Hawaii

Dear Sir:

I take great pleasure in submitting herewith, on behalf of the Board of Land and Natural Resources, the report of the Department of Land and Natural Resources covering the period from July 1, 1966 to June 30, 1967.

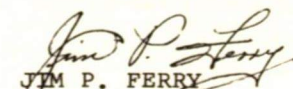
There was no change in the membership of the Board during the period covered by the report. The Board, and the Department, under Legislative mandate, have however assumed the responsibility for administration of the fifteen Soil and Water Conservation Districts within the State and for coordination of State efforts for the preservation of historic sites and structures within the State. The major effects of these changes in responsibility are indicated in more detail in these sections of the report devoted to divisional operations.

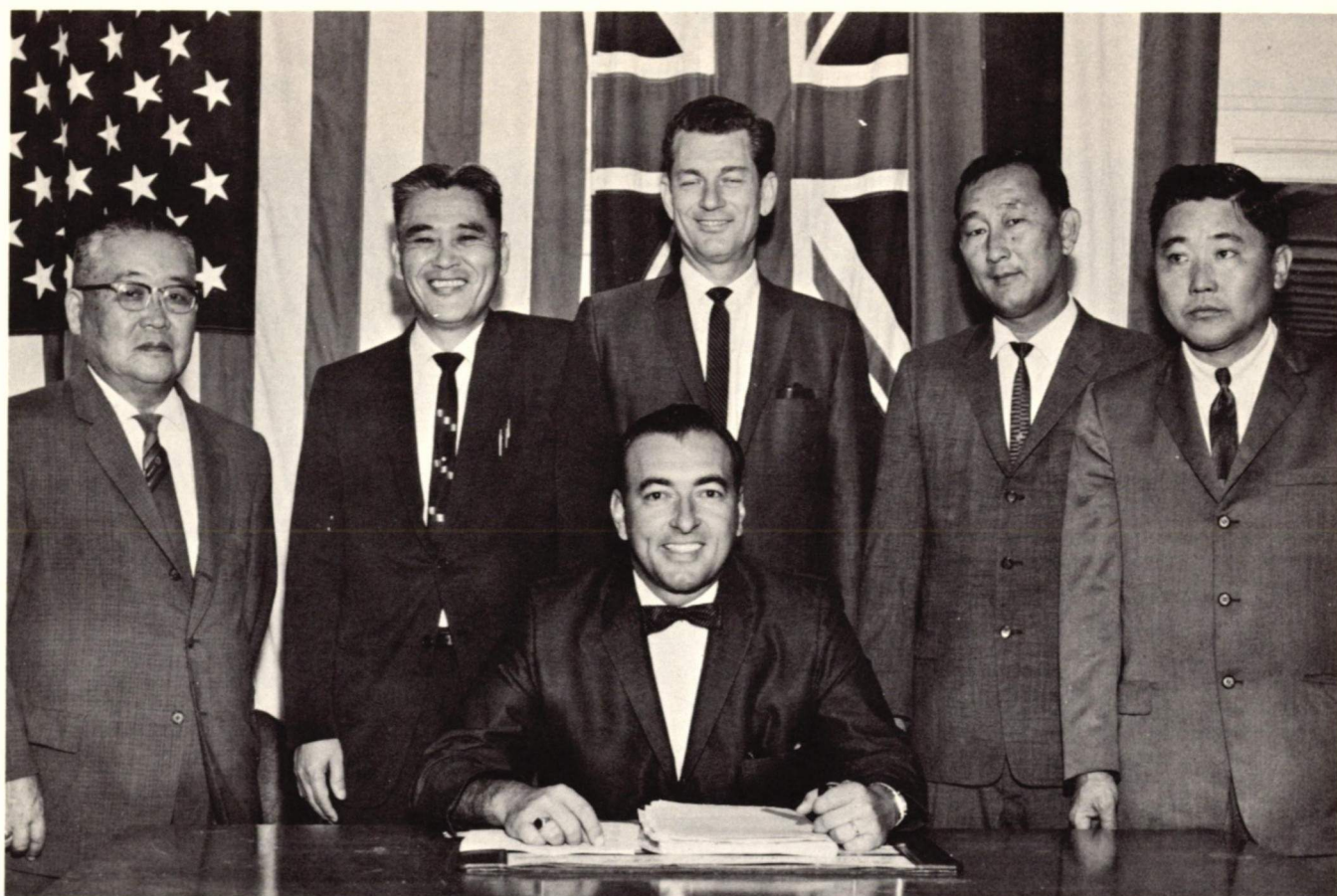
The Board, and the operating Divisions of the Department, have continued to vigorously carry out programs for development, enhancement, and protection of the natural resources of the State in accordance with the broad policies established by the Administration. Particular emphasis has been placed on development of residential subdivisions, development and enhancement of State parks and other recreational projects, and development and distribution of water. In general, projects and programs have been emphasized which support the expanding population and growth of agriculture and industry within the State.

Staff and personnel of the Department have carried out their varied tasks in an excellent and cooperative manner, and I should like to commend them for this. We have continued to enjoy fine cooperative relationships with the Federal, County, and other State agencies with which we work, and with private organizations and individuals, and I should like to express our sincere appreciation for their cooperation and help.

Respectfully submitted,

BOARD OF LAND AND NATURAL RESOURCES

  
JIM P. FERRY  
Chairman and Member



# BOARD OF LAND AND NATURAL RESOURCES

Jim P. Ferry—Chairman

Dr. Nobuichi Masunaga (Kauai), Hiroshi Tanaka (Hawaii), Richard L. Summers (Oahu),  
Tai Sung Yang (Maui), George S. Yamaki (Oahu)

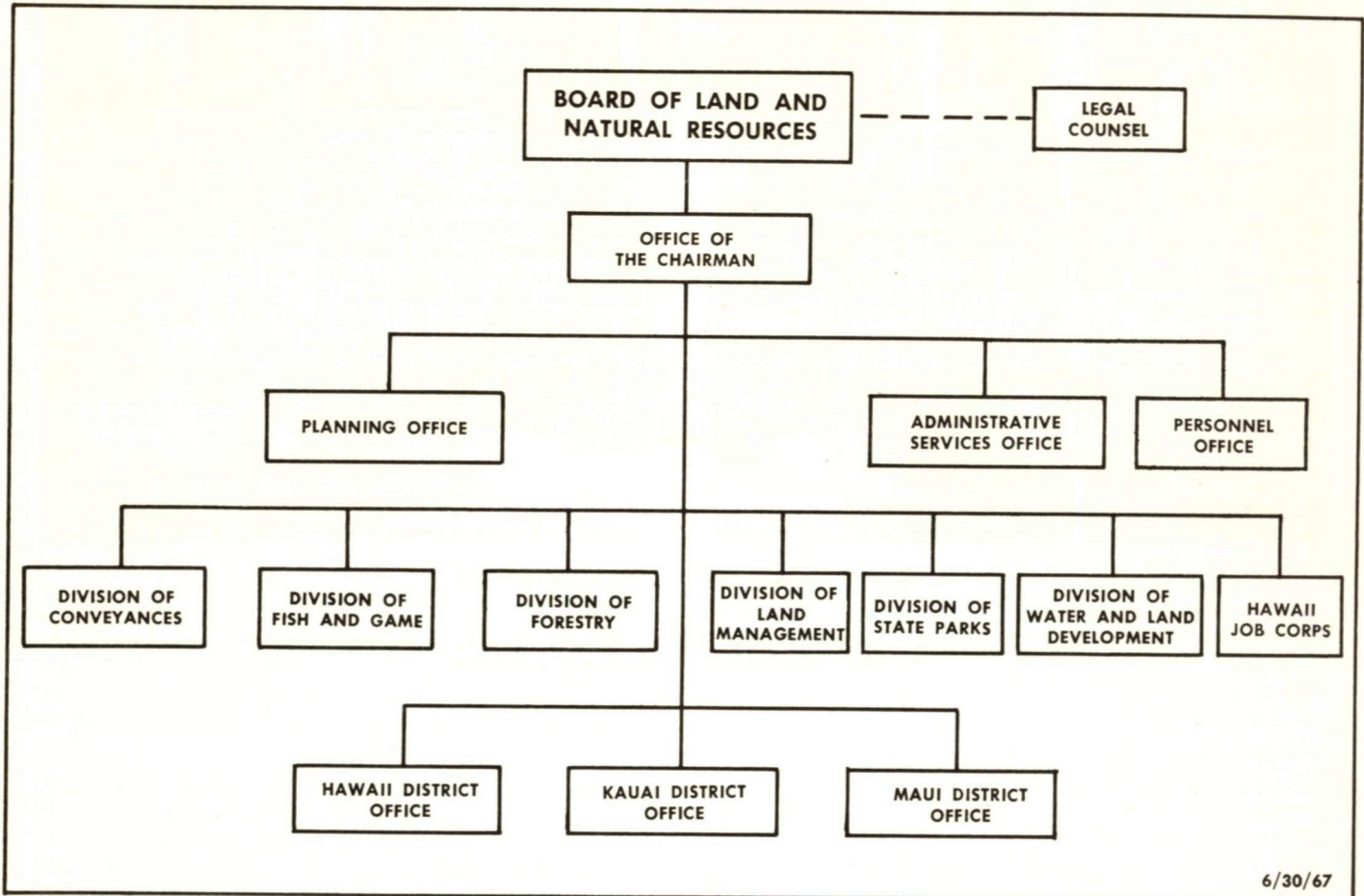
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SECTION 1  
**OFFICE OF THE CHAIRMAN**

Jim P. Ferry, Chairman  
Sunao Kido, Deputy

**ORGANIZATION CHART**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**



6/30/67

The Department of Land and Natural Resources is responsible for the control, administration, management and protection of the natural resources of the State. These broad responsibilities and functions are carried out through the combined efforts of three Staff Offices and seven operating Divisions within the Department. Overall policy guidance and administrative control of the functions and activities of these various offices and divisions are provided directly by the Chairman of the Board, and ultimately by the executive Board of Land and Natural Resources.

The Board of Land and Natural Resources consists of six members, including the Chairman, who are appointed by the Governor of Hawaii with the advice and consent of the State Senate. Two mem-

bers are appointed "At Large" within the State, and one member is appointed from each of the Land Districts of the State. The normal term of office of the members is four years, and no member may serve for more than two consecutive terms, or for more than eight consecutive years.

The Chairman of the Board serves as the representative of the Board to the Office of the Governor and to the State Legislature, and serves also as the full-time paid Executive Officer of the Department. The Chairman is endowed with certain powers and authority by statute, and in addition, may carry out such duties and exercise such power and authority as may be lawfully delegated to him by the Board.

## LEGISLATION

There were no major legislative nor administrative changes during the period which directly affected either the composition or functions of the Board. Membership on the Board remained unchanged during the period. There were, however, a number of statutory and administrative changes at both the State and Federal levels which substantially affect the operations and activities of some of the operating Divisions within the Department. These changes are discussed in some detail in those sections of this report covering the Divisions most directly affected.

## PROGRAMS

The Chairman and members of the Board have continued to place strong emphasis on programs for development of the natural resources of the State, and this interest is reflected in the overall programs which have been initiated, or active, during the period.

The sale of residential houselots in various areas of the State was continued as a means of providing suitable sites to the general public for development of homes. In some areas, this continuing program has been so successful that the current demand for homesites within those areas appears to be temporarily satisfied. Of particular interest to the Board was the sale of campsite leases within the Kokee State Park area to persons who had constructed vacation homes or cabins there on sites which had previously been made available to them on long-term permits. This action not only increased development of the Park, but also provided additional recreational opportunities in one of the most beautiful areas of the State.

The development of resort and tourist destination hotels has been encouraged through the development of essential utilities in areas of State lands set aside for such hotel developments, and also through the sale of leases for resort hotel development. In this connection, the Board was involved in cooperative action with the Bernice P. Bishop Estates for development of resort areas in the Keauhou District of Hawaii, especially in the realignment of roads and other utilities to serve this substantial resort development.

The economic benefits of this new resort and destination area, to the island of Hawaii and to the State as a whole, are expected to be substantial.

The Board's deep interest in public outdoor recreational opportunity was marked by the unique sale of a lease on State lands to a private entrepreneur for development of a golf course. Although the development will be carried out entirely with private capital, the course will be open to the public for play. In effect, the State has obtained what amounts to another much needed public golf course, but without being required to spend capital to acquire it.

The previous outstanding cooperation of the Board with the Federal Government was continued at Kokee, at Barking Sands, and at other areas within the State, making State lands available in connection with development and expansion of the Federal research and development programs in astro-physics and communications, and in military programs. The University of Hawaii has also received the highest consideration in their requirements for space to initiate and expand their programs in the astro-physical, geo-physical, and oceanographic sciences.

A 100-acre site at Hanapi, Honokaa on the island of Hawaii was leased to the Boy Scouts of America for development of a scouting camp. Active development of this site is now underway. This major scouting facility on that island should greatly improve the outdoor facilities of the Boy Scout movement, and will greatly facilitate meaningful Scouting programs.

The Board, on behalf of the State, was involved in a series of land exchanges with the Hawaiian Homes Commission. The exchanges, on the islands of Hawaii, Molokai and Kauai, were carried out to clarify the status of certain public uses of Hawaiian Homes Commission lands.

## Administrative Services Office

**ADELINO COITO**

**Departmental Fiscal Officer**

The Administrative Services Office provides essential support and staff functions for the operating Divisions of the Department, and provides also close staff support for the Chairman and Board of Land and Natural Resources.

Primary functions carried out include such critical operations as centralized purchasing, receipt and accounting for funds, budget preparations for operating funds, expenditure control, maintenance of accounts and records, and fiscal reporting.

The Administrative Services Officer and his staff prepare detailed analyses and recommendations, and advise Division Heads, the Chairman and the Board on problems of fiscal management and control for the Department.

## Planning Office

**PAUL T. TAJIMA**

**Program Planning Coordinator**

The primary functions of the Planning Office are to provide basic staff support to the Chairman and the Board of Land and Natural Resources, and to perform comprehensive central planning for the Department in close coordination with the heads of the operating Divisions of the Department. The Planning Office also provides guidance and advice

to the operating Divisions in the formulation and planning of their programs and major projects.

The Planning Office prepares recommendations covering the objectives, policies, and broad programs necessary to fulfill the Department's role within the State government, and provides systematic evaluations of the accomplishments and effectiveness of these programs.

The staff of the Planning Office conduct studies on economic feasibility and other critical factors of land development projects; establish design criteria and development concepts; and propose alternate solutions to development problems. The staff also conduct studies of land use and land values, review appraisal reports, and coordinate land use and appraisal studies with other public and private agencies and organizations.

The Planning Office prepares public information releases and other reports relating to the activities and accomplishments of the Department, and also maintains a central working library of books, reports, and other published materials relating to natural resource and development programs of the State.

## **Personnel Office**

(.....)  
**Personnel Officer**

The Personnel Office maintains a comprehensive personnel program for the entire Department of Land and Natural Resources. The staff provide advice and assistance to the other Staff Offices, and to the operating Divisions of the Department, in specialized areas such as position classification,

employee relations, and employee training and development; maintain a centralized system for processing, recording, reporting, and filing personnel transactions and payroll records; and, prepare recommendations on policies and procedures for personnel control.

The staff of the Personnel Office also provide personnel and management services for the Neighborhood Youth Corps (NYC) programs within the State, and also the "Operation Mainstream" programs (Nelson Amendment Programs) conducted by the State Parks Division of the Department since July 1966. This program offers job and training opportunities to the chronically unemployed within the City and County of Honolulu who otherwise have little prospect of meaningful training or gainful employment, and which contribute significantly to beautification programs of the State. As of June 30, 1967, there were 11 parks maintenance crewmen and one part-time clerk-typist in the program.

During the summer period, a total of 200 student workers were employed by the Division of State Parks, Division of Forestry, and the Division of Fish and Game, with records processed through the Personnel Office.

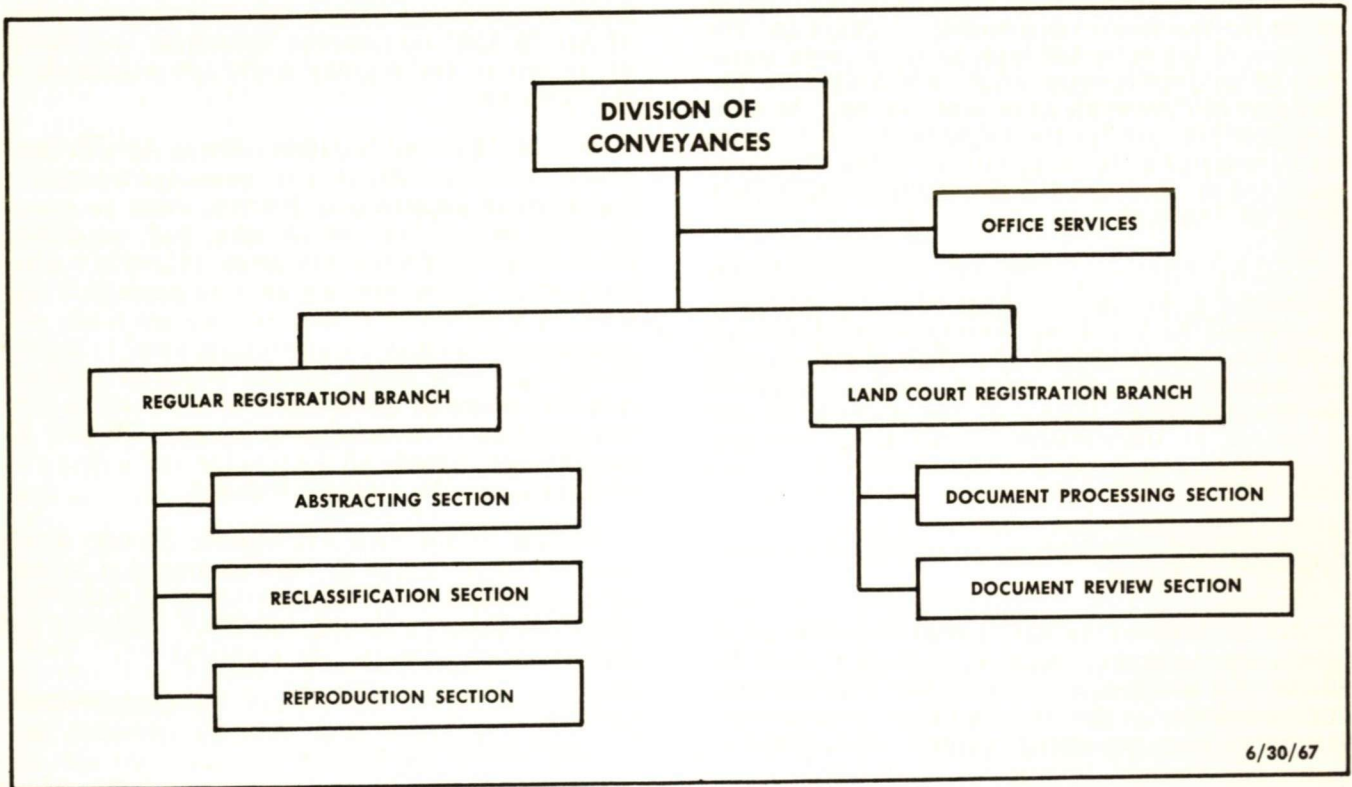
On June 30, 1967, there were 417 full-time employees in the Department, including employees of the Hawaii Job Corps Center.

The Personnel Office is normally staffed with the Personnel Officer and Personnel Clerk, with occasional temporary help when required. However, Mr. Edward Mashima resigned as Personnel Officer on October 31, 1966, to accept a position with the University of Hawaii. The position has remained vacant to this date.

SECTION 2  
**DIVISION OF CONVEYANCES**

MICHIKI ADACHI, Registrar of Conveyances

**ORGANIZATION CHART—DIVISION OF CONVEYANCES**



The principal functions of the Division of Conveyances are to receive, file, index and record all legal documents affecting land titles in the State of Hawaii and all other legal documents of any kind which may be entitled to recordation. The division is also responsible for the preservation and protection of all records and files within the Division, as well as for the preparation and issuance of certified copies of any matters of record.

This Division is the sole agency within the State authorized to record land title documents. Due to differing legal and procedural requirements, and to provide adequate administrative control and management of processing operations, the general functions of the Division are divided into two general groupings of Regular Registrations and Land Court Registrations.

The Regular Registration Branch is primarily concerned with processing of deeds, mortgages, maps and all legal documents entitled to recordation; indexing of file plans and condominium maps;

preservation, protection and maintenance of an orderly reference to all of the records held within the Division; and, with preparation and issuance of certified copies of any matter on record.

The Land Court Registration Branch, which acts under statute as an agent of the State Land Court, has the direct responsibility for filing, indexing, and processing legal instruments, orders and maps on real property and condominium within the State. The Branch prepares and issues certificates of title certifying ownership and outstanding encumbrances affecting property. Here also rests a responsibility for preservation, protection and maintenance of an orderly reference to all the original documents held in file within the Division, and preparation and issuance of certified copies of such upon request.

#### **LEGISLATION**

A substantial number of legislative actions, passed during the 1966 and 1967 Sessions, have

had, and will have significant effect on the operations of the Division.

Act 10/1966, which became effective on January 1, 1967, imposes a conveyance tax on all deeds, leases, sub-leases, assignment of leases, agreements of sale, assignment of agreement of sale, and on other land transfer instruments within the State. The tax rate is \$0.05 per \$100 of value. During the first six-month period, the Division of Conveyances collected a total of \$88,521.05 in taxes for the State Department of Taxation. The amount of tax collected represents property transfers of an approximate value of \$28,966,000. The Division of Conveyances is implementing the Conveyance Tax law for the Department of Taxation as a matter of convenience to the public. All taxes collected are deposited to the credit of the Department of Taxation.

This Act places an additional requirement on the Division by stating, "no document or instrument, on account of which an affidavit or affidavits are required to be filed with the office of the director of taxation under this section, shall be accepted for recordation or filing with the registrar of conveyances or the assistant registrar of the land court, unless such affidavit or affidavits have been duly filed." In the period since the Act went into effect, this office has collected a total of 8,520 conveyance tax affidavit forms identified as Forms P-64-A and P-64-B.

Act 18/1966—This Act amends Act 208, S.L.H. 1965, the Uniform Commercial Code, which became effective January 1, 1967. The Uniform Commercial Code, as the title implies, makes uniform the state laws governing secured transactions on personal property. During the six-month period of the Code, the Division processed 6,086 financing statements and allied documents. Documents pertaining to the Code are indexed and recorded in accordance with Chapter 343, Revised Laws of Hawaii 1955, as amended. To implement this law, the Division, with the aid and approval of the Attorney General's Department, developed forms known as UCC-1 Financing Statement; UCC-2 Financing Statement Change and UCC-3 Information or Copy Request Form.

The Code also provides that the Registrar, upon request of any person, shall issue his certificate showing whether there is on file an effective financing statement or statement of assignment thereof against a particular debtor.

Act 77/1967, effective May 15, 1967, provides that no officer or employee—including the registrar of conveyances and any deputy registrar—shall be subject to personal liability by reason of any error or omission in the performance of any duty under Article 9 of the Uniform Commercial Code, except in case of wilful negligence. To reduce the possibility of error or omission, the Di-

vision has created a special file and is now able to complete a request for information in a matter of minutes. During the first six-month period, the Division processed 345 information requests.

The Code was further amended by Act 79/1967. This Act no longer requires that financing statements relating to the Code be filed in the Land Court Branch. The Act further provided that all documents relating to the Code filed in the Land Court Registration System prior to the enactment of Act 79/1967 be removed therefrom and placed on record in the regular Registration Branch of the Division.

Acts 26/1966 and 33/1966—These Acts became effective July 1, 1967 to streamline recordation in the Regular Registration Branch. Prior to enactment of these Acts, the Division had, depending on the class of documents presented, either a filing system (documents are kept as permanent records) or a recording system (copies are made permanent records and documents returned to person recording). The filing system required separate indexes and metal file cabinets to house these documents. Since the enactment of Acts 26 and 33, the Division records all documents and indexes all documents in the General Indexes.

Act 256/1967—This Act amends Section 336-5, Revised Laws of Hawaii 1955 as amended, whereby the Division is no longer required to make marginal notations on its records when affidavits and notices of foreclosure are recorded.

Act 293/1967—This Act amends Chapter 128A, Revised Laws of Hawaii 1955 as amended, pertaining to the conveyance tax law. We are currently withholding any comments as to the effect of this Act since its effective date is January 1, 1968.

## MICROFILMING

The Division continued to microfilm the current Regular Registration Branch daily documents on its Recordak Planetary Microfilm Camera. It also continued the making of reduced size visual prints on its Bruning Copytron 2000R machine.

The total number of 100-foot 35mm microfilm rolls accumulated for this past fiscal year amount to 114 rolls. This represents 340 libers.

In addition, the Division continued to microfilm the old libers accumulated prior to the acquisition of the microfilm equipment. To date, the first 1,167 libers of a total of 4,542 have been filmed.

With the Bruning Copytron 2000R and Recordak Reader-Printer machines, the Division is able to reproduce copies requested of recorded and filed documents in a matter of minutes. To date, the revenue from this service is \$5,511.60.

## WORKLOAD

The workload of the Division decreased during the latter part of the fiscal year. This can be attributed in large part to the lack of mortgage money, which also had effect on other segments of the real property business. A total of 68,689 documents were processed in 1967 as against 77,011 in 1966. Although the total number of documents recorded and filed decreased, the total workload was not affected due to the additional duties and requirements imposed on the personnel by the Uniform Commercial Code and the Conveyance Tax Law.

The number of condominium declarations registered totaled 57. This represents 2,203 units within these projects. Registration of the Conveyance documents on these units has created a unique situation. Since these documents are recorded or filed on a particular day, the strain placed on the receiving clerks is heavy on that given day. These documents are accepted in addition to their regular work and therefore, staff personnel adjustments must be made.

The Division was fortunate in finally receiving authorization for, and in filling two new positions; that of Cashier, and a contractual position for a Bookbinder.

1. The Cashier's position is within the Office Services Section of the Division. The Cashier is primarily responsible for the collection of fees, and for the daily deposit of the collections. In the past, the responsibility for collections was divided among the several Receiving Clerks, which was difficult to control.

A modern cash register (NCR Model 41-5-8-8-0 (2) has been acquired to expedite the work of the Cashier.

2. The contractual position of Bookbinder was authorized for repair and maintenance of records. As these records age, the wear and tear through usage becomes most noticeable, necessitating repair, and in some cases, re-binding. This is expensive, but a most necessary operational expense. The filling of this position at this time is most welcome as there is a considerable backlog of work on hand.

## MISCELLANEOUS

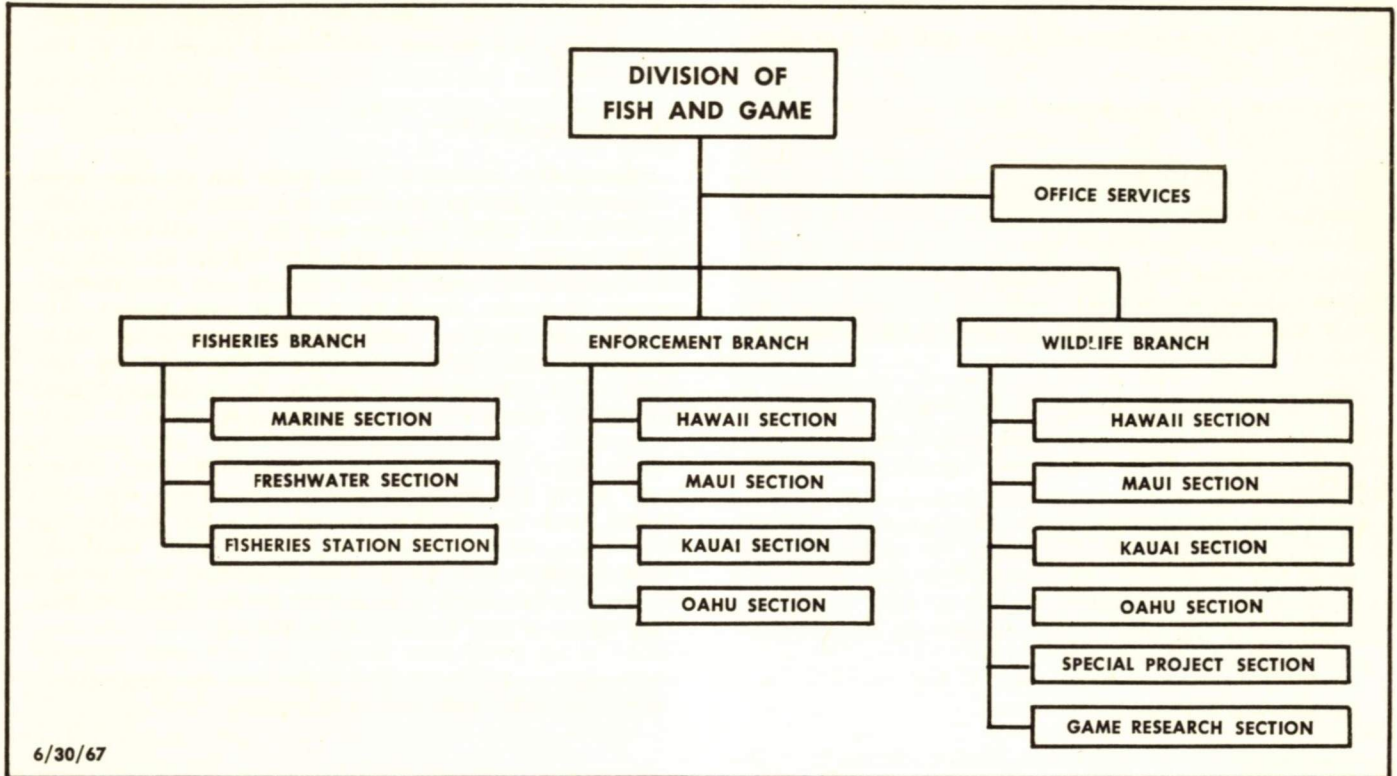
During the course of the past fiscal year, approximately 300 prospective real estate salesmen, brokers, and people interested in real estate were taken on tours through and briefed on the operations of the Division. The reaction and knowledge gained from the tours have been most beneficial to all parties. The public gains ability to help themselves and better understand the work of the Division and in turn saves the time of our personnel in doing their assigned work.

We have been fortunate in having the office work areas enlarged, and air-conditioned. The enlarged area is currently occupied by the Assistant Registrars, providing them with quieter working areas for better concentration and improved work efficiency. Air-conditioning has maintained the file documents under better humidity control, has reduced dust problems on documents and equipment, and in addition, has improved working conditions for the staff and employees.

SECTION 3  
**DIVISION OF FISH AND GAME**

MICHIO TAKATA, State Fish and Game Conservationist

**ORGANIZATION CHART—DIVISION OF FISH AND GAME**



This Division is immediately responsible for development and management of the State's aquatic and terrestrial wildlife resources to serve the best interest of the State and its people. In discharging this responsibility, the Division is guided by the management philosophy of "wise use" of our resources for economic, recreational, esthetic, scientific and cultural enjoyment. This does not preclude, however, "protection and preservation" where warranted as in the case of wildlife species threatened with extinction.

Fine progress was made in all phases of the Division's major programs during the year. Particularly noteworthy is the enjoyment accruing to the fishermen and hunters as a result of the Division's continuing efforts to enrich the fish and game resources of the State through the introduction of exotics. During the year open seasons were declared for a number of introduced species which have become established. Details of the introduction program and other activities are described in

the programs of the three operating branches of the Division, namely, the Fisheries, Wildlife and Enforcement Branches.

#### **LEGISLATION**

There were four legislative measures adopted during the 1967 Session of the State Legislature which directly affect the Division.

Senate Resolution 193 requests the Department of Land and Natural Resources to develop a plan to preserve Paiko Lagoon and Peninsula as habitat areas for native and migratory shorebirds. The development of such a plan is being suspended pending settlement of the question of ownership of the Peninsula, which is presently under litigation.

House Resolution 232 requests the Department of Land and Natural Resources to investigate the possibility of utilizing fresh water reservoirs in the

County of Hawaii, more specifically the Puu Pulehu Reservoir, as public recreational fishing areas. Two fresh water public fishing areas have been established and are being operated in the County of Hawaii and negotiation is being pursued with the Board of Water Supply of the County of Hawaii for acquisition of the fishery management rights to Puu Pulehu Reservoir. Successful negotiation appears to be contingent upon discontinuance of the use of water from this reservoir for domestic purpose, which is expected in the near future.

Act 265 authorizes fish and game wardens to issue summonses or citations to violators of fish and game laws and regulations. This will relieve the wardens from physically transporting the violators to a police station for formal booking after an arrest is made, and should thereby permit more effective utilization of the wardens' patrol time.

Act 268 provides for an appropriation of \$91,500 to be expended by the Department of Land and Natural Resources to conduct studies and programs to develop and improve commercial and sport fisheries in the State. To achieve one of the priority objectives of this Act, the U. S. Bureau of Commercial Fisheries has been contracted to develop improved techniques in bait fish capture and to establish a pilot bait-holding facility for the benefit of the Hawaiian aku fishery at a cost of \$81,500. Further, investigations are presently underway to determine the feasibility of letting a contract, utilizing the remaining \$10,000 for the conduct of studies on the processing of fishery products.

## ADMINISTRATION

Administrative direction and coordination for the programs of the Division were provided by the State Fish and Game Conservationist.

## OFFICE SERVICES

This office provides administrative support to the Fish and Game Conservationist and to the three operating branches to enable them to achieve program objectives. This support consists of typing and clerical services, budgeting, purchasing, maintenance of property inventory, issuance of licenses and permits, and dissemination of program information to the public by telephone and over the service counter.

## Fisheries Branch

The basic goals of the fishery program are the maintenance of Hawaii's fishery resource in a state of abundance that will assure maximum sustained yield and to manage the utilization of this resource so that the greatest possible advantages will accrue to Hawaii as a whole. Thus, the development and management activities of

the Fisheries Branch are concerned with the maintenance, improvement and expansion of both recreational and commercial fishing opportunities.

## FRESH WATER FISH INTRODUCTION AND STOCKING

A milestone was reached this year in work with the tucunare (*Cichla ocellaris*), an extremely desirable game fish introduced from South America when a year-round open season was declared on November 3, 1966. The daily bag limit was set at three per day, and the minimum size limit was set at twelve inches. Fisherman response to this introduction has been enthusiastic, and many fine catches have been made in the Wahiawa Public Fishing Area.

Hatchery facilities were installed at the Keehi Fisheries Station in February and March, 1967. The initial trial of this equipment with rainbow trout eggs received from the Winthrop National Fish Hatchery, was unsuccessful due to the presence of toxic levels of zinc in the water. The source of this zinc contamination was found to be a galvanized pipeline supplying water to the Station. The galvanized pipeline was replaced with a plastic pipeline to eliminate this problem. Subsequently, another shipment of eggs was obtained from the California Department of Fish and Game on April 26. Results were very gratifying this time, with the total mortality of eggs, sac-fry and fry amounting to only 4%, the lowest mortality yet experienced. Thus, the feasibility of carrying on trout hatchery operations at the Keehi Fisheries Station has been demonstrated.



Two tucunare (*Cichla ocellaris*) caught in the Wahiawa Public Fishing Area in process of being checked during a creel census. Division of Fish and Game staff member points to swelling on nape of one tucunare which is typical of males during the spawning season.

On May 18, some 36,000 late sac-fry (about 10 days after hatching) were taken to Kauai and released into the streams of the Kokee Public Fishing Area. On June 1, the balance of some 12,000 fingerlings was released into the Kawaikoi Stream of the Kokee PFA, following a post-hatching rearing period of 26 days. Observations during the latter part of June showed good stocking success in the Kawaikoi and Waiakoali Streams, but results in the Mohihi Stream were very poor, probably due to one or more freshets occurring shortly after the stocking on May 18.

## LIMNOLOGICAL SURVEY

With the completion of limnological surveys on the islands of Oahu, Maui and Kauai, surveys were initiated on the island of Hawaii in December, 1966. A total of eleven streams, all along the Hilo-Hamakua Coast, was surveyed, with the finding that ten of these streams offered good potential for future development as public fishing areas.

A limnological survey of the Pelekunu Stream on the north coast of Molokai was also accomplished, coincident with a search for an introduced shrimp from Guam. In general, the Pelekunu Stream was highly rated.

## PUBLIC FISHING AREA DEVELOPMENT AND MANAGEMENT

Fishermen checking station data collected at Kokee PFA, Kauai during the 1966 trout fishing season showed that 347 fisherman-trips resulted in the taking of 444 trout. An average of 2.56 hours was spent in catching each fish. This was a slight improvement over the 2.64 hours per fish expended during the 1965 season.

Final plans, specifications and estimates for the construction of fisherman facilities at Wahiawa PFA, Oahu, including an access road, parking lot, boat launching ramp and dock, were completed by the Division of Water and Land Development in October, 1966. Approval for 75% Federal Aid financing of this project was received in November. Subsequently, a contract was awarded in April, 1967, and it is expected that actual construction will begin during the early part of the next fiscal period.

Creel census and fishermen interview data collected during calendar year 1966 indicate heavy usage of the Wahiawa PFA by the fishing public. Gross estimates indicate that some 12,650 fisherman-trips were made to this facility during calendar year 1966 with approximately 34,995 hours of recreational fishing. It is further estimated that some 27,680 fish weighing 19,135 pounds were caught during the period.

## EXOTIC MARINE FISH INTRODUCTION

Two snappers, the toau (*Lutjanus vaigiensis*) and the taape (*L. kasmira*), and a grouper, the roi



Participant in a limnological survey stands at head of falls in the Honolii Stream. This is one of the streams along the Hilo-Hamakua Coast of Hawaii that were highly rated as potential public fishing areas.

(*Cephalopholis argus*), having become established in Hawaiian waters, were opened to year-round public fishing in October, 1966. These three fishes were introduced from French Oceania and the Phoenix Islands between 1955 and 1961. Eight other species of snappers and groupers introduced during the same period have yet to establish themselves to the level warranting harvest.

A summary of the status of the introduced species up to June 30, 1967 is presented in Table I.

## ARTIFICIAL SHOALS

The artificial shoals off the coast of Waianae and Maunalua Bay, Oahu and at Keawakapu, Maui were monitored by underwater transecting.

Three hundred and fifty tons of concrete pipes were added to the Waianae Artificial Shoal during the year which increased the total quantity of concrete pipes lowered over the shoal to 2,850 tons. The Waianae Shoal also consists of a section made up of 95 car bodies.

Underwater transects over the pipe section of the Waianae Shoal showed a standing fish population of approximately 267 pounds of fish per acre of shoal area. This is 43 percent lower than the previous count made in May, 1966. These large fluctuations in the standing population are expected, since wandering species such as kala (*Naso hexacanthus*), kahala (*Seriola dumerilii*) and opelu (*Decapterus pinnulatus*) move freely in and out of the shoal area.

The Maunalua Bay Artificial Shoal comprised only of car bodies revealed an estimated 921 pounds

**Table I. Summary of the Status of Groupers and Snappers Introduced to Hawaiian Waters**

	Total No. Released	Year												
		1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967 <sup>2</sup>
GROUPERS														
Roi ( <i>C. argus</i> )	2,385		R	X	X		X	R-X	X	X	X	X	X	X
Tarao <sup>1</sup> ( <i>E. merra</i> & <i>E. hexagonatus</i> )	2,612		R					R-X	X	X	X	X	X	X
Rero ( <i>C. urodelus</i> )	1,811				R-X	X	X	R-X		X	X	X	X	X
Matapuu ( <i>E. fasciatus</i> )	51				R-X	X	X	X						
Pukokoo ( <i>E. spiniger</i> )	22				R-X				?					
SNAPPERS														
Toau ( <i>L. vaigiensis</i> )	2,232	R	R		R-X		X	R-X	X	X	X	X	X	X
Taape ( <i>L. kasmira</i> )	3,168	R			R-X	X	X	R-X	X	X	X	X	X	
Tuhara ( <i>L. gibbus</i> )	177				R			R-X	X				?	?
Aaravi ( <i>Lethrinus</i> sp.)	32		R		R			R						
Mexican snapper ( <i>L. guttatus</i> )	3,439						R-X	X		X				

<sup>1</sup>*E. merra* and *E. hexagonatus* grouped together as "Tarao" due to similarity in appearance.

<sup>2</sup>To June 30, 1967.

R—Year of Release.

X—Species caught or sighted during the year.

?—Unconfirmed report of sighting.

of standing fish population per acre. Among the more desired species of fish present at the shoal was the u'u (*Myripristis berndti*) at concentrations of approximately 100 pounds per acre. Reports were also received that approximately 2,000 pounds of red weke (*Mulloidichthys auriflamma*) were harvested by net fishermen from the Maunaula Bay Shoal during August and September.

The standing population of fish in the Keawakapu artificial Shoal on the island of Maui was estimated at 485 pounds of fish per acre, with relatively high densities noted for the ulua (*Caranx ferdau*), kawelea (*Sphyræna helleri*), sand weke (*Mulloidichthys samoensis*), naenae (*Acanthurus olivaceus*) and palani (*A. dussumieri*).



The grouper, Roi (*Cephalopholis argus*), was opened to public fishing in October, 1966

## MANAGEMENT INVESTIGATIONS

Results of the moi (*Polydactylus sexfilis*) gonad sampling program show that moi function initially as males. Following a process of sex transformation in which the male gonadal tissue is replaced gradually with female reproductive tissue, the moi later spawn as females. A relationship between fork length and sex is clearly evident. Moi smaller than 25 centimeters fork length are predominantly immature or are males, whereas moi larger than 42 centimeters are all females. Hermaphrodites or those with bi-sexual gonads, are intermediate in size and range between 22 and 42 centimeters in fork length. There is a wide range of overlapping sizes, from 28 to 40 centimeters, at which moi can be either male, hermaphrodite or female.

Excellent results obtained from tagging hahalalu, the young of the akule (*Trachurus crumenophthalmus*) along the southern coast of Oahu during fiscal year 1965-1966, encouraged additional tagging this year. The primary objective was to determine whether fish in the southern fishing ground (Diamond Head to Barbers Point), western fishing ground (Waianae and Pokai Bay) and northern fishing ground (Haleiwa Bay) intermingle and also to determine how far they travel.

A total of 5,266 hahalalu was tagged and released in the three akule fishing grounds. To date, 143 tagged akule have been returned by commercial and sportsfishermen. The average length of time between tagging and recapture was 79 days for the southern releases; 52 days for the western releases, and 102 days for the northern releases. All tagged akule were recaptured within the general area of release, giving no indication that akule

intermingle between the southern, western and northern fishing grounds. Further tagging is planned for fiscal year 1967-1968 to obtain data on the growth rate of hahalalu.

A manuscript describing a new method of tagging akule developed by the Fisheries staff, was submitted for publication in the Fishery Bulletin of the U. S. Fish and Wildlife Service.

A total of 1,304 Kona crabs (*Ranina serrata*) was tagged and released in the Haleiwa and Waimea, Oahu crabbing grounds. To date, 207 tagged crabs have been recovered. The recoveries indicate that there is no intermingling of crabs between the Haleiwa and Waimea fishing grounds.

Preliminary analysis of data indicates that Kona crabs at Haleiwa and Waimea spawn during the months of June through September. Within this period, female crabs lay and hatch at least two batches of eggs. The smallest female with eggs had a carapace length of 55 mm. (slightly over 2 1/8 inches), but the average carapace length for all females sampled in the Waimea Bay area was 65 mm. (about 2 1/2 inches). Egg counts from berried females indicate that a female crab measuring 65 mm. carapace length will produce about 24,900 eggs at a time, or a total of about 49,800 eggs for the two spawnings during a season.

Approximately 8,150 pounds of live oysters (*Crassostrea virginica*) were transplanted from West Loch, Pearl Harbor to fishponds on Molokai and Hawaii during the year. Of this total, 1,200 pounds were planted in the Kaopeahina Fishpond on Molokai and 6,950 pounds were planted in the Kapoho Fishpond on the island of Hawaii. These oysters are being sampled at two-month intervals to determine their cycles of fatness and reproductive activity. Thus far, the studies indicate that the oysters at the Kaopeahina Fishpond reach conditions of fatness that are superior to that of the oysters in West Loch, but the rate of growth seems to be the same.

Recent surveys have shown that water quality in Hilo Bay is ideally suited for oyster growing with bacteriological levels within the acceptable range. Thus oysters from Pearl Harbor will be transplanted into Hilo Bay for trial culture utilizing both the raft and bottom culture methods.

The extensive beds of the Manila clam (*Venerupis philippinarum*) extending from Nuupia Fishpond to Kokokahi in Kaneohe Bay, Oahu provided an estimated 85,000 persons with a banner harvest of clams this year. It is estimated that 70,000 gallons of clams were harvested during the season, with a total weight of 490,000 pounds.

Approximately a million seed clams were collected during the year and scattered throughout Kaneohe Bay to extend the distribution range of



Collecting seed Manila clams (*Venerupis philippinarum*) at the clam bed near Nuupia Fishpond in Kaneohe Bay, Oahu.

this desirable shellfish. An additional 10,000 seed clams from Kaneohe Bay were planted in Hilo Bay in an attempt to establish this species on the island of Hawaii. Stocking of other areas on Oahu, such as Pearl Harbor, Keehi Lagoon, and Wailupe will be carried out during the fiscal year 1967-1968.

Studies on the two species of spiny lobsters in Hawaii (*Panulirus japonicus* and *P. penicillatus*) were confined to the analysis of lobster catch statistics and the rearing of juvenile *P. japonicus* to obtain information on molting and growth.

The catch statistics show that the net fishery for lobster supplied 55 percent (163,546 pounds) of the commercial lobsters landed in the State during the period 1948 to 1965. The trap fishery, in this same period, provided 44 percent (129,518 pounds) of the landings. The remaining one percent (3,619 pounds) was caught by other methods. The catch statistics also show that the poundage of net-caught lobsters per fisherman month increased from 1948 to 1965, whereas the poundage of trap-caught lobsters per fisherman month declined.

Juvenile losters were caught in Waimea Bay, Oahu, and reared at the Kewalo facilities. The results of the rearing experiments showed that small lobsters, between 10 to 20 mm. carapace length, molted on the average of once every 23 days. Those between 25 to 35 mm. carapace length molted once every 34 days. The larger juvenile experimental lobsters molted on the average of once every 69 days.

The carapace lengths of the juvenile lobsters increased from one to three millimeters at each molt. For the experimental specimens, there was no relationship between lobster size and increment of growth at each molt. Only the frequency of molts varied for different sized lobsters.

## SHELLFISH INTRODUCTION

In April, a survey was made off Pyramid Rock in Kaneohe Bay to assess the status of trochus (*Trochus niloticus*) planted there in 1963. During a half-hour dive using SCUBA gear, 27 live and one dead trochus were counted. There was no visible evidence to indicate that trochus had spawned. All trochus sighted were probably survivors of the original release since they were relatively large—measuring about five inches in shell diameter.

Three abalones (*Haliotis cracherodii*) were also seen during the trochus survey. This was the first sighting of the abalone since they were planted in 1959 at the Pyramid Rock site. One abalone was about six inches in diameter while the other two were approximately four inches in diameter.

## PRAWN CULTURE AND STOCKING

From the original breeding stock of 30 giant long-legged prawns (*Macrobrachium rosenbergi*) imported from Penang, Malaysia, more than 3,000 second generation prawns were produced and reared successfully to maturity. The breeding of the second generation prawns resulted in the production of an estimated 165,000 prawns to the juvenile stage by the end of the report period. These young prawns will be utilized for testing of commercially applicable rearing methods and for stocking in the wild.

Tests conducted to assess any damage that this species may effect on watercress and taro, two economically important paddy-culture crops, gave no indication that it would prove detrimental to present farming practices. Therefore, a release permit was secured from the Hawaii Department of Agriculture, and following the execution of a cooperative agreement with the pond operator, juvenile prawns were released into the Loko Ea Fishpond located at Heleiwa, Oahu. Through such stockings, under varying environmental conditions, data on the rearing of the prawns to market size together with information on consumer acceptance will be gathered.

## COMMERCIAL FISH LANDINGS

The commercial landings of fish and shellfish in the State of Hawaii during the 1966-1967 fiscal year totaled 12,328,591 pounds valued at \$3,138,575 to the fishermen. Compared with the previous fiscal period, the State catch showed a decrease of 3,659,387 pounds or 22.9% in weight and \$181,342 or 5.5% in value.

The decreases in weight and value were due primarily to the aku (*Katsuwonus pelamis*) fishery which decreased by 4,152,570 pounds or 33.0% in weight and \$440,334 or 25.9% in value.

Species that showed substantial increases in landings were yellowfin tuna (*Neothunnus macropterus*) by 81,793 pounds or 17.0%, stripe marlin (*Makaira audax*) by 70,295 pounds or 26.5%, opa-

kapaka (*Pristipomoides microlepis*) by 53,768 pounds or 73.8%, akule and hahalalu (*Trachurops crumenophthalmus*) by 97,844 pounds or 15.9% and opelu (*Decapterus pinnulatus*) by 56,072 pounds or 30.4%.

Oahu led the islands in landings with 9,848,290 pounds or 79.9% of the total State landings followed by Hawaii with 1,328,154 pounds or 10.8%, Maui with 824,611 pounds or 6.7%, Kauai with 290,950 pounds or 2.4% while Lanai and Molokai contributed the remaining 36,586 pounds.

## Wildlife Branch

The major activities of the Wildlife Branch are concerned with development, maintenance and operation of public hunting areas for game bird and mammal hunting throughout the State; management of game populations to provide sportsmen with good hunting opportunities, consistent with the capacity of the hunting areas to produce game crops, on a sustained yield basis; improvement of the game resources through the introduction and establishment of desirable game birds and mammals; and preservation and perpetuation of economically or esthetically valuable wildlife with special reference to rare and endangered species.

## MANAGEMENT OF PUBLIC HUNTING AREAS

Public hunting areas generally include State lands possessing outstanding capabilities for providing recreational hunting, and privately owned lands on which the State has acquired game management rights through cooperative agreements with the owners. A third class of hunting areas are lands controlled by other government agencies, but on which the wildlife is managed by the Division of Fish and Game by agreement.

Twenty public hunting areas and two special shooting areas, totaling more than 522,000 acres were managed for public hunting during Fiscal Year 1966-1967. These areas, which range in size from five acres to more than 186,000 acres, are located throughout the major islands of the State, including the island of Lanai which is almost entirely privately owned.

There was a slight decrease in the game mammal harvest during the year, primarily due to the complete closure of big game hunting on Mauna Kea, Hawaii, one of the more important public hunting areas in the State. The first pronghorn antelope hunting season held since this species was introduced in 1959 was conducted during August and September on the island of Lanai. Forty permits were issued on the basis of a public drawing involving 400 applications. Twenty-seven bucks and six does were harvested during a two-day season, and hunters reported that the animal was quite easy to hunt. An open season for the hunting of mouflon sheep was also held on Lanai for the third consecutive year, with relatively poor

results. Due to the dense vegetative cover brought on by heavy rains during the spring months, hunters had great difficulty locating trophy rams and only six were harvested. The following table summarizes big game harvest during the period, along with comparable data for the previous year:

**Table 1 Big Game Harvest on Public Hunting Areas During 1965-66 and 1966-67**

Species	1965-1966	1966-1967
Feral Pigs .....	1,151	1,161
Feral Goats .....	2,266	2,107
Axis Deer .....	1,086	867
Feral Sheep .....	358	158
Mouflon Sheep .....	22	6
Pronghorn Antelope .....		33
Total Mammal Harvest	4,883	4,332

Game bird hunting was fair throughout the State during the report period. Of the seven recently established exotic game birds opened to public hunting in the last few years, three species, the Gambel's quail, grey francolin and black francolin, continued to provide good shooting during the 1966-1967 hunting season. A marked increase in the take of doves can be attributed to the fine shooting experienced on the island of Oahu. Two areas, Sand Island and Barber's Point, were opened to public hunting for a total of 26 days during which 937 hunters made 1,551 trips and shot a total of 6,886 doves of two species. The Barber's Point area was opened for the first time through the cooperation of the U. S. Navy, which owns the property, and a private estate through which access was permitted. The success of the season demonstrated the value of intensively managed shooting stake operations, which were employed in these two areas due to their limitation in size.

The following table summarizes the results of the State-wide game bird season during the report period with comparable data for the previous year:

**Table 2. Game Bird Harvest on Public Hunting Areas During the 1965-66 and 1966-67 Seasons**

Species	1965-1966	1966-1967
Pheasants .....	1,610	1,302
Chukar Partridge .....	2,379	1,825
Grey Francolin .....	808	754
Black Francolin .....	287	185
Quail (Gambel's, Japanese, Valley) .....	1,288	760
Lace-necked Dove .....	2,396	3,790
Barred Dove .....	3,743	4,346
Pigeon .....	7	
Total Game Bird Harvest	12,518	12,962

## MAINTENANCE OF PUBLIC HUNTING AREAS

Habitat improvement work included the continued clearing of brushland in strips in the Kaohe Game Management Area on the island of Hawaii. About half of the cleared land was planted to game bird food plants which resulted in a noticeable increase in pheasant and quail populations and in hunter use of the area. A similar range renovation experiment is continuing on the island of Lanai, where in cooperation with the Dole Company, seriously eroded lands are disked and seeded to desirable wildlife food plants. There are several hundred acres of badly eroded areas on this island, which, if revegetated, could add significantly to the wildlife carrying capacity of the land.

Improvements were made to the game watering systems on the islands of Molokai, Lanai, Kauai and Oahu and to the road and trail network on all islands. The maintenance of these facilities, which include some 200 miles of jeep roads and trails and over 150 game watering units, continues to be a major activity for the field staff.

Establishment of hunter checking stations and posting of boundary lines and safety zones were continued during the various hunting seasons throughout the year. These activities assure better hunter compliance with established regulations and promote increased hunter safety on the intensively managed areas. In addition, collection of game harvest information is facilitated through the operation of checking stations.

## GAME INTRODUCTION AND RESEARCH

A total of forty black-tailed deer was released in the Puu Ka Pele Forest Reserve on Kauai from 1961 to 1966. While the majority of the herd remains within a two-mile radius of the release pen, individual deer have traveled as far as six miles in a southerly direction. Studies of their food habits indicate that the diet of the blacktail includes twenty-four species of plants of which twenty are exotics and four are common natives. No census was conducted due to the difficulty of locating the deer in the dense vegetation, but based on field observations and reports received, it is apparent that the deer population is increasing satisfactorily and that no additional releases will be necessary.

Field observations of pronghorn antelope on Lanai continued during the year to determine range extension and population dynamics. Examination of specimens checked in by hunters at the checking station revealed that the animals were in excellent physical condition and virtually disease free; however, indications of mineral deficiency were noted in several animals. This species is now occupying most of the 35 square miles of what appears to be good pronghorn habitat on the



**Successful hunters pose with a handsome trophy buck pronghorn antelope shot during the first season held on the island of Lanai.**

north end of the Island. No major increase in numbers was noted since the hunting season, which was held in August and September of 1966, although known mortality was confined to one male found dead of unknown causes in February.

Axis deer first transplanted from Molokai to Maui in September of 1959 apparently are well established in the Kula area. Ranch cowboys report seeing mature animals consistently in the area of the original release around Puu O Kali.

The mouflon, the most successful big game importation in recent years, continues to extend its range on both Hawaii and Lanai. Although no significant increases in either of these populations were noted during the annual game count, it was felt that this was due to the elusive nature of this species and the dense vegetation in which it is found, rather than any lack of reproductive success.

Big game mammal exclosures constructed in previous years on Hawaii, Lanai, and Kauai to show the effects of mammal feeding on the vegetation were maintained. Routine photographs taken at selected stations illustrate the contrast between the lush plant growth within the exclosures and the grazed and browsed vegetation on the outside. Additional exclosures were constructed during the year to obtain data over a wide range of habitat conditions.

Feral mammal studies were limited to routine field observations by staff members during the

year due to lack of personnel resulting from unfilled vacancies. However, intensified efforts were made to determine the status of the feral sheep population on Mauna Kea during a one-year closure to public hunting. Aerial and ground censuses conducted during the latter part of the year indicated a total population of 3,750 sheep on the mountain with high concentrations from Puu Laau to Kaluamakani. The devastating effects of this large population on the vegetation in the higher elevations in all areas of the mountain were readily apparent in the sharp browse lines, barking of trees and the lack of revegetation. A public hunting season is planned for the early part of the next fiscal year to reduce the sheep population to a level more compatible with the carrying capacity of the range.

**Game Birds.** In September of 1966, 43 Northern Chilean tinamou, a species of South American game bird, were released on the island of Hawaii in the Puu Anahulu Game Management Area. An additional 26 Chilean tinamou of the southern variety were liberated on Kauai in the Puu Ka Pele area during the same month. Although these birds were in poor condition when they arrived due to the long journey from South America, no mortality was noted after their release and it is hoped that they will establish themselves in the brushland regions of these islands.

Other exotic game birds including the Rio Grande turkey, Erckel's francolin partridge and Reeves' pheasant are maintaining limited populations on several islands. Only the Rio Grande turkey on Molokai and Lanai shows any potential for public hunting and it is hoped that a limited "experimental" season may be held soon.

## **NON-GAME BIRD INTRODUCTION AND RESEARCH**

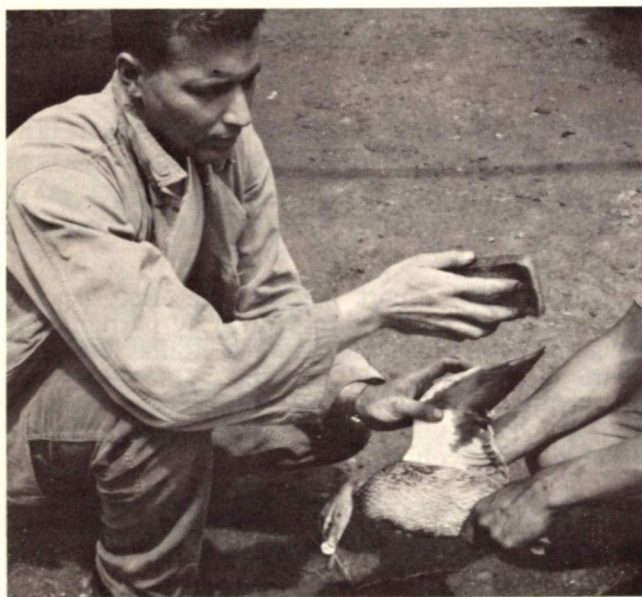
**Nene Project:** The Nene Restoration Project, a program financed largely through a contract with the Bureau of Sport Fisheries and Wildlife, U. S. Fish and Wildlife Service, showed excellent progress during the period. At the Pohakuloa Propagation Project fertility and hatchability were very high, enabling the production of 84 nene during the season, the highest production ever.

A third nene sanctuary and release site was established during the year through a cooperative agreement with the Damon Estate on the Kahuku Ranch in the Kau District of the island of Hawaii. A total of 75 nene was released in this sanctuary in May of 1967. Successful reproduction resulting from the pairing of pen-reared and wild nene was observed in both the Keauhou and Hualalai sanctuaries. The table on page 19 lists the annual production at Pohakuloa and the releases made to date.

**Table 3. Nene production and Release Data from 1949 through 1967**

Years	Number Reared	Number Released Island of Hawaii	Number Released Island of Maui	Total Number Released
1949-1959 .....	54			
1959-1960 .....	17	20		20
1960-1961 .....	32	31		31
1961-1962 .....	45	34	35	69
1962-1963 .....	54	42	29	71
1963-1964 .....	38		27	27
1964-1965 .....	41	48	34	82
1965-1966 .....	69		25	25
1966-1967 .....	84	75		75
Totals .....	434	250	150	400

The Koloa Restoration Project, financed by the World Wildlife Fund, continued with primary emphasis on the collection of life history data. This portion of the project is nearing completion, and a report is in preparation. Koloa are being reared at the Pohakuloa station on Hawaii, and the Jean Delacour Waterfowl Preservation Center in Salt Lake City, Utah. Fifty-three koloa produced at these facilities were marked and released on Kauai. The purpose of this release is to determine the adaptability of pen-reared birds to the wild, determine the success of the marking methods, and study the movement of pen-reared birds released into the wild.



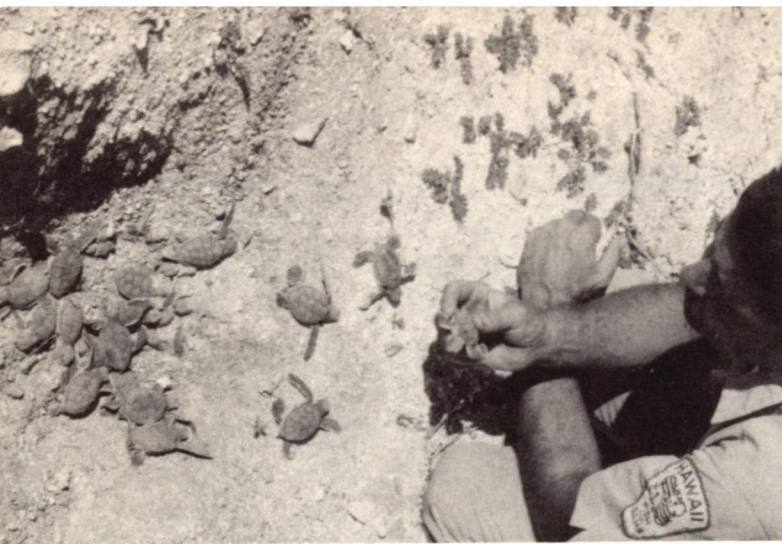
Pen-reared koloa are marked with nasal discs and dyed to provide positive identification for experimental releases on the island of Kauai.

### WILDLIFE REFUGES AND SANCTUARIES

Two expeditions were made to the Hawaiian Islands National Wildlife Refuge, one in September of 1966 and another in March of 1967 in fulfillment of a contract with the U. S. Fish and Wildlife Service. Staff members provided the Federal Wildlife Administrator stationed in Hawaii with assistance in carrying out routine inspections and biological surveys on all seven islands in the refuge. In addition, several rare Nihoa finches, Laysan finches and Laysan ducks were captured and transported to other islands of the refuge in an attempt to establish new populations of these rare species.



A staff biologist assisted the U.S. Fish and Wildlife Service Wildlife Administrator in banding adult green sea turtles as a means to gather longevity and movement information on this species.



A staff wildlife biologist observing the hatching of green sea turtles on an expedition to the Hawaiian Islands National Wildlife Refuge in September of 1966.

In March of 1967 a visit was made to the Kure Wildlife Refuge by a staff biologist to follow up on studies initiated in previous years. Efforts to control the Polynesian rats which had been preying on nesting seabirds resulted in a reduction of rats around the Coast Guard installation, but high populations remain elsewhere on the island. However, predation has been reduced and a continuous rat control program was set up with the assistance of Coast Guard personnel.

Infestations of the weed, *Verbesina enceloides* were surveyed and found not to have spread appreciably since the last inspection. Study plots established to measure the effectiveness of herbicides and the pulling of mature plants were completely overgrown with the offending plant indicating that anything short of repeated follow-up treatment would be ineffective.

## Enforcement Branch

The Enforcement Branch is comprised of eighteen full-time Fish and Game Wardens supplemented by a corps of 112 volunteer Deputy Fish and Game Wardens. The wardens are responsible for the enforcement of all laws and regulations relating to the protection, conservation, and harvest of the fish and wildlife resources of the State.

The activities of the Enforcement Branch are grouped into four major categories, which are discussed separately below.

### PATROL AND SURVEILLANCE

This is the primary activity of the Enforcement Branch. Patrols are conducted and surveillance is maintained over approximately 930,000 acres of public hunting areas, 900 miles of shoreline, 20,000 acres of wildlife sanctuaries and refuges, and six freshwater public fishing areas. In addition, patrol and surveillance activities are maintained over the reef areas and freshwater streams throughout the State. During patrols wardens check hunters and fishermen for licenses and permits, and inspect game and fish bags for protected species, under-

size specimens, and bag limits. Other aspects of the patrol and surveillance function are the conduct of stakeouts and inspection of fish markets, fish peddlers, commercial and sport fishing boats, restaurants, and game bird farms for possible violation of fish and game laws and regulations.

Patrol and surveillance activities conducted in 1966-1967 may be briefly summarized as follows: patrolled 220,912 miles by vehicle, 1,206 miles by boat, and 635 miles on horseback and on foot; contacted 8,588 hunters and 32,101 marine and freshwater fishermen; and inspected 9,301 commercial and sport fishing boats, restaurants, fish markets, and fish peddlers. These enforcement efforts resulted in the arrest of 72 persons for violation of a variety of fishing and hunting laws and regulations.

### PUBLIC INFORMATION

An important activity of the enforcement branch is dissemination of information pertaining to fish and game laws and regulations and other aspects of the fish and game program to the public. This is accomplished through several methods including, (1) personal contact with fishermen and hunters in the field; (2) speaking to fishing and hunting clubs, civic organizations, and schools; (3) participating on radio and TV programs; (4) preparing and issuing written and verbal news releases; and (5) distributing printed informational material during normal patrols or at special occasions such as at a fish and game display booth set-up during fairs and other public events.

### ISSUANCE OF LICENSES AND PERMITS

This activity involves the issuing of 14 different types of fishing and hunting licenses and permits. Emphasis is placed on prompt, courteous, and convenient service to the public. A total of 6,281 licenses and permits was issued by the wardens in 1966-1967.

### PARTICIPATION IN FISHERY AND WILDLIFE MANAGEMENT ACTIVITIES

This activity is concerned with assisting the Fisheries and Wildlife Branches of the Division in various phases of their programs.

During the report period the Enforcement Branch aided the Wildlife Branch by participating in game bird censuses, manning hunter checking stations, trapping and banding game birds and mammals, and making field observations on nesting, brood sizes, movements of game animals and ground cover conditions.

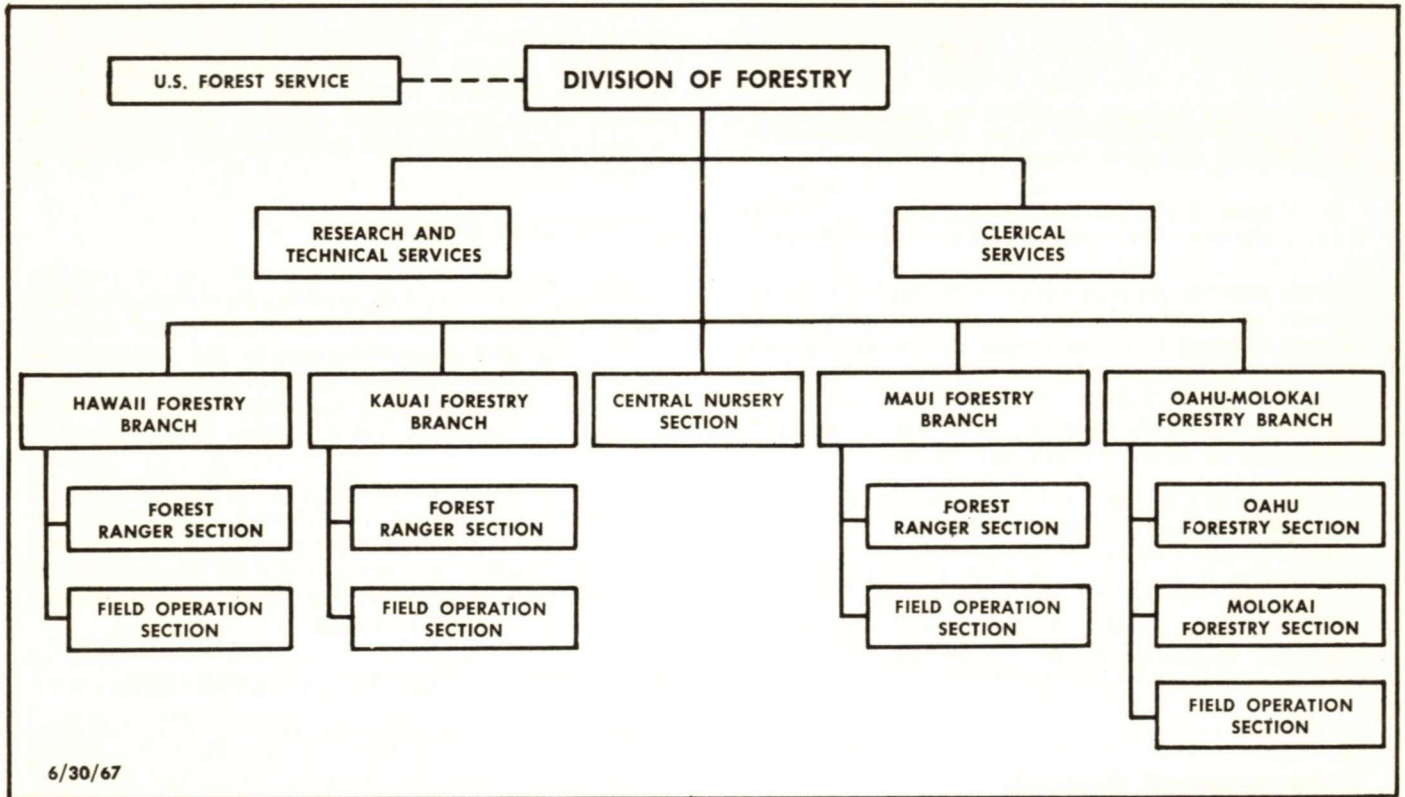
Assistance was provided the Fisheries Branch by participating and at times conducting creel censuses, collecting and measuring fish and shellfish specimens, and transplanting shellfish species. Further, reports of recoveries or sightings of introduced fishes were investigated and all data collected were forwarded to the Fisheries Branch.

# SECTION 4

## DIVISION OF FORESTRY

TOM K. TAGAWA, State Forester

ORGANIZATION CHART—DIVISION OF FORESTRY



### ADMINISTRATION

The Division of Forestry is primarily responsible for the development, management, and protection of the forest resources of the State which include water, timber, forage, recreation and wildlife habitat.

With increasing demands being placed on lands of all types and capabilities, the problem of land use, ownership and management responsibility becomes critical. It might be helpful and interesting to look at the broad land classification of the State. The initial forest survey<sup>1</sup> for Hawaii revealed the following figures:

Commercial Forest Land	1,088,900 acs.
Non-Commercial Forest Land:	
Unproductive, pali.....	91,400
Unproductive, non-pali....	715,900
Productive reserve.....	85,400
Total Non-Commercial Forest Land	892,700
<b>TOTAL FOREST LAND.....</b>	<b>1,981,600</b>

Non-Forest Land:	
Grassland suitable for growing trees.....	289,700
Grassland not suited for trees.....	463,600
Cultivated land and intensive pasture.....	489,700
Urban and industrial.....	98,300
Rockland .....	711,400
Pali marsh, duneland, water	69,400
<b>TOTAL NON-FOREST LAND.....</b>	<b>2,122,100</b>
<b>TOTAL ALL LAND CLASSES.....</b>	<b>4,103,700</b>

<sup>1</sup>Joint project of the State of Hawaii and the U.S. Forest Service, completed and published in 1963.



More than a thousand acres of slash and loblolly pine were planted on Molokai to protect the watershed, provide recreational areas, and to produce usable timber.

The total State land area is 4,103,700 acres of which 1,981,600 acres are classified as forest land. About 54 percent of the forest lands are privately owned and 46 percent State owned. Whether the forest lands of Hawaii are in public or private ownerships they contribute to the State's economy. These forest lands provide the material resources of water for irrigation, domestic and industrial uses; raw material for forest products; habitat for wildlife; and recreation.

The rapidly increasing population and other social and economic changes taking place in Hawaii have a critical bearing on the management of State and private forest lands. Residential, resort, and diversified agricultural development needs have brought about tremendous demand for release of more public and private lands within the Conservation District.<sup>2</sup>

The Board of Land and Natural Resources adopted an administrative policy in consonance with statutes which permits various kinds of uses within the Conservation District under conditions consistent with conservation principles.

The growing pressures on land use require prudent management to increase productivity of our forests, not only for basic manufactured products, but even more so for critical watershed and wildlife protection, and for outdoor recreation.

## PERSONNEL

To adequately fulfill its responsibilities the Division of Forestry recruited three (3) foresters to strengthen its district operations.

**Mr. Clifford D. Ells**, a forestry graduate of the University of Washington and former employee of the State of Alaska and the U. S. Forest Service, was employed as Forester II on February 1, 1967 and assigned to Oahu.

**Mr. Howard H. Horiuchi**, a recent graduate of

Oregon State University was employed as Forester I on February 1, 1967 and assigned to Hawaii.

**Mr. William H. Sager**, a forestry graduate of Oregon State University and former employee of the U. S. Forest Service, was employed as Forester II on March 1, 1967 and assigned to the island of Maui.

**Mr. Russell K. LeBarron**, Resource Management Forester, resigned on August 15, 1966. This vacancy has critically affected the planning and implementation of the Forestry program. His able technical ability in the area of resource management will be sorely missed.

**Mr. M. F. Landgraf**, State Forester, retired on April 30, 1967, after 43 years of government service. He first started in 1924 as Forest Ranger on Oahu and progressively advanced and became State Forester in October of 1964. Mr. Landgraf's vast experience and knowledge relative to Hawaiian forests and their problems will be very hard to replace.

**Mr. Tom K. Tagawa** was named the new State Forester effective May 1, 1967. Up to the time of his appointment he served as principal staff assistant to the State Forester.

**Mr. Nobuo Honda**, Timber Survey Forester, was promoted to the State Forester's staff as Zoning Forester effective June 15, 1967.

These new foresters on the staff and district level will provide the necessary leadership and impetus to meet the division's objective and goals.

## NEIGHBORHOOD YOUTH CORPS

The Division of Forestry continued to administer the Department sponsored Neighborhood Youth Corps program in projects involving not only jobs dealing with conservation of the State's natural resources, but also with work assignments more closely associated with industry. During the period under review the Department administered two separately contracted projects with the Department of Labor, involving an approved allotment of

<sup>2</sup>Land areas zoned primarily for forest and water reserves by Act 187, of 1961.

125 boys and girls between the ages of 16 to 21 years from low income families.

The objective of the Department NYC program is to provide useful work experience in on-the-job training for young men and women within the State, and thus to enhance their employability or to induce additional educational training. Included as participating agencies under an agreement are the State Department of Health, Department of Agriculture, Department of Accounting and General Services, Department of Planning and Economic Development, and, the Department of Regulatory Agencies. Other divisions within the Department of Land and Natural Resources, including Fish and Game, State Parks, and Land and Water Development, also participated.

Work classification categories within the program included office aides, clerical aides, librarian aides, conservation aides, forestry aides, park ranger aides, nurses aides, mechanic aides, tradesmen aides, waterworks aides and accountant aides. These work categories were assigned on a State-wide basis and a considerable degree of personal counseling was rendered each enrollee and competent supervision was a day-to-day necessity at all work stations.

These youths are developing desirable basic work habits, such as neatness, punctuality, following directions and accepting responsibilities. These traits are expected to significantly improve opportunities for their future employment.

## REFORESTATION

Hawaii's forest lands have a latent timber production potential that far exceeds her own needs. Some 80 to 100 million board feet of timber products are used each year in Hawaii. Practically all of this is imported as Hawaii's forest land is not in productive condition.

The State has established a continuing reforestation goal that will create 100,000 acres of productive planted forest over the next 35 years. This acreage will ultimately sustain a harvest of at least 50 million board feet of timber per year as productivity of these forest lands is very high. Much of the State forest land is presently occupied by unmerchantable trees, grass, and shrubs. More than 300,000 acres of State land are in need of reforestation. One of the most economic means of improving commercial value of the native forest lands is by planting more valuable species which will gradually replace species of lesser value. Extended research has firmly established that high quality hardwoods grow rapidly in Hawaii, and that markets, both domestic and overseas, are available. Selection criteria have been narrowed to species of known timber value that are most adaptable to Hawaii's ecological conditions. On the better sites high-value hardwood species such as *Toona ciliata* var. *australis*, *Flindersia brayleyana*, *Pithecellobium saman*, *Eucalyptus saligna* and *E. pilularis* are emphasized. *Araucaria heterophyl-*



Young planted Australian redcedar seedlings grow well in the rich and moist forest soil near Hilo, and will be large enough to harvest for high quality timber in about 35 to 40 years.

la, slash pine, loblolly pine, and cluster pine are planted in relatively drier exposed sites.

The second five-year reforestation program on non-stocked State forest lands is making good progress. During the fiscal year reforestation by hand planting was completed on 2,400 acres, using 917,000 seedlings. Since 1961 the State has planted 12,962 acres with 6,275,000 seedlings to fulfill its objective to make idle State land productive.

## NURSERY

Kamuela Nursery was initially developed by the Division in 1962 for production of planting stocks for reforestation, windbreak, erosion control and Christmas trees for State-wide distribution. Twenty different species for windbreak, erosion control and Christmas tree for farm planting, and eleven species for reforestation are grown at the nursery.

The nursery located on a high plain, has severe wind problems, which will continue until established windbreaks become high enough to be effective. Continued improvement at the nursery



Mechanization replaces hand labor at the Central Tree Nursery in Kamuela. The nursery produces and distributes well over a million seedlings every year.

through improved cultural and mechanical techniques indicate that this site could produce an adequate supply of seedlings for all State and private needs. Over 1,220,000 seedlings were produced and distributed during the last fiscal year. Since 1962, Kamuela nursery has produced and distributed more than 5,000,000 seedlings. Seedlings are sold to farmers and other landowners at a nominal price. Advice and assistance in planting and managing plantings are offered as a part of the Cooperative Forest Management Program, financed in part by the Federal government.

The Division, in cooperation with the University of Hawaii Agricultural Experiment Station, is conducting experiments on soil fumigants, and on use of chemicals for weed control on the nursery bed, which indicate that expenditures for hand weeding may be reduced.

A combined nursery office and seed testing laboratory was constructed during the fiscal year. This seed testing laboratory will facilitate periodic determination of germination capacity and viability of seeds in storage.

## FOREST PROTECTION

### Fire Control

By statute, the State Division of Forestry is responsible for forest fire suppression and control on State and private forest lands. The District Forester who is the Chief Fire Warden for each island equips and maintains fire tool cache units at strategic locations on the islands. He also maintains records on cooperators and on manpower and equipment resources that can be made available in case of fire emergencies.

The Division responded to eighteen (18) forest and brush fires within the conservation districts and lands adjacent to the conservation district boundaries, which burned 4,778 acres. A major forest and brush fire burned over 2,900 acres of critical watershed land at Hanalei, Kauai on June 18, 1967. Even in a high rainfall zone, past experience indicates that a high fire potential exists in Hawaii. The principal causes of forest fires are debris burning and careless smokers. Occasional fires result from military training activities.

Hawaii's dramatic variations of the precipitous and undulating mountains with verdant backdrops are considered as tourist mecca. Generally, the actual monetary value of timber or forage is the smallest part of the loss after each fire. The aesthetic and watershed losses are much greater, since a beautiful forest and verdant backdrop take a long time to develop.

The Division in efforts to provide better protection to local lands acquired an Allis Chalmers HD-21 AC Tractor from the Federal Excess Property Branch. The Division plans to continue this type of procurement in order to develop a more effective fire prevention and suppression organization.

## Insect and Disease

The Division maintains close coordination with State and Federal agencies responsible for the detection and eradication of insects and diseases which may be injurious to forest vegetation.

*Xylosandrus compactus* (Eichhoff) commonly known as black or coffee twig borer was discovered on the Island of Hawaii in December 1966. A total of 55 confirmed host plants were recorded, and of these, 6 species are used in our reforestation program. A continuous surveillance is maintained throughout the planted areas to check on the infestations to determine if they are only isolated cases. At present the University of Hawaii entomologists are conducting chemical studies for control of this black twigborer.

The Division, in cooperation with the University of Hawaii Agricultural Experimental Station is conducting studies of root rot problems of hardwood seedlings, mainly *Toona ciliata* and *Cedrela odorata* caused by *Pythium ultimum*. Studies are also being carried out on biological aspects of *Phytophthora* sp. in the soil.

## ROADS AND TRAILS

Forest roads and trails are maintained to provide access to the forest areas for recreational and hiking use, as well as for fire control and protection of forest lands. A total of 33 miles of secondary road was constructed, 172 miles of road maintained and 86 miles of trail maintenance was accomplished.

## COOPERATIVE FOREST MANAGEMENT

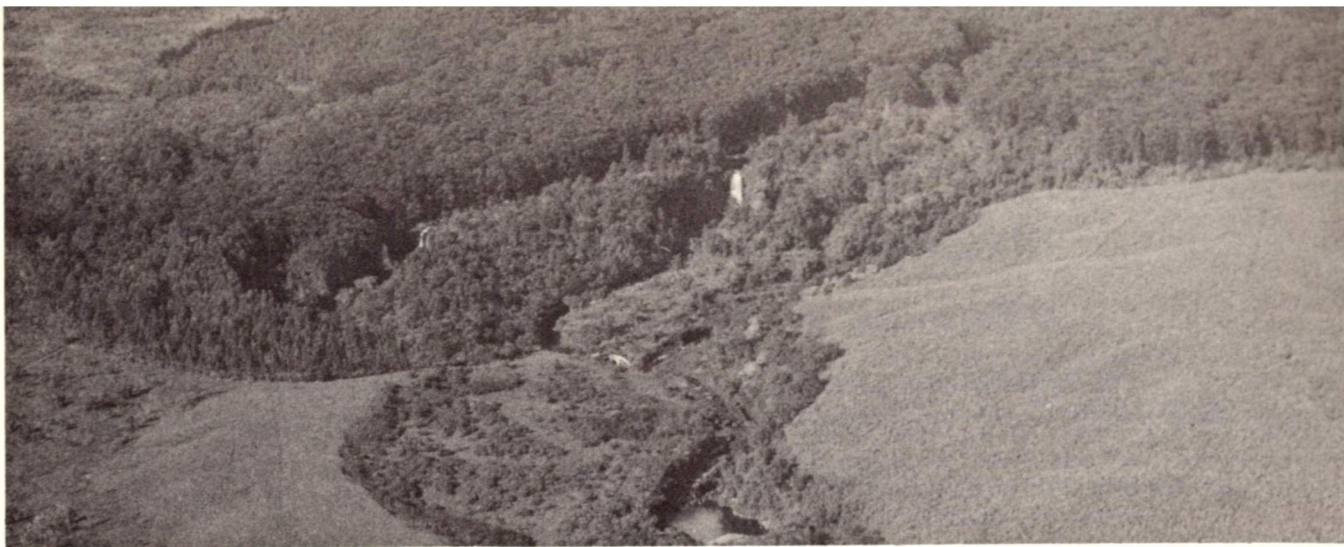
During the fiscal year, 281 requests were serviced by the District Foresters and Service Forester on acreages ranging from 1 to over 300 acres. Service was provided in regard to distribution of planting stock and on windbreak design recommendations for livestock and cropland protection.

Information and guidance on the planting and propagation of Christmas trees (Norfolk-Island-pine) was provided to landowners on all the major islands. Although there have been many inquiries and attempts to start plantations, the major growers are still located on the island of Hawaii. Over 18,000 Norfolk-Island-pine trees were shipped to the mainland last Christmas.

Marketing and utilization of forest products is another service provided by the Cooperative Forest Management program. Assistance was given on existing stands of timber in regard to logging operations, improvement cuttings, potentials and volume estimates by cruising.

## FORESTRY CONFERENCES AND TRAINING

The State Forester, and several foresters of the Division, attended forestry conferences and training programs during the fiscal year. These con-



Vast acreages of forest land, under proper management, can provide us with water, timber, forage, and recreation, as shown in this photo of the slopes of Mauna Kea.

ferences and training programs are necessary to prevent provincialism and broaden the scope of current forest methodology and techniques within the State. Conferences included the Annual Meeting of the National Association of State Foresters in Williamsburg, Virginia in October 1966; World Symposium on Man-Made Forests in Canberra, Australia in April 1967; Western Forest Nurseryman's Association meeting in Placerville and Davis, California in August 1966; on-the-job training for the Timber Survey Forester to discuss and observe forest survey methods and techniques with the U. S. Forest Service Experiment Station in Berkeley, California and Portland, Oregon in September 1966; and on-the-job training for the Service Forester with the U. S. Forest Service in San Francisco and with the California State Division of Forestry at Sacramento, California in August 1966.

### FOREST RESOURCE INVENTORY

The initial Forest Survey for Hawaii, completed in 1963, revealed a substantial inventory of planted timber. No detailed data were obtained, however. Recognizing the potential for utilization of the plantation timber, we have undertaken an intensive survey of location and acreage of each planted stand, its species composition, timber volume and quality, and the ownership of planted timber. This information is fundamental to appraisal of the prospects of expanded milling industry.

We completed the survey for the island of Hawaii first and issued an analytical report in 1966. Similar reports for the islands of Kauai and Lanai will soon be issued. Field work has been completed for planted stands on Oahu and Molokai, and is in progress on Maui. Reports will be issued, summarizing the plantation timber information for each of these islands.

The U. S. Forest Service has provided substantial assistance in the survey and in the analytical phases of the work.

### FORESTRY RESEARCH

Effective management of the forest land resources in the islands requires a foundation of

facts on which to base land-use decisions, management policies, and specific practices. The Division, in cooperation with the U. S. Forest Service, is investigating many questions or problems such as the best type of vegetation on specific watersheds to improve water yield or to decrease floods and erosion, and to enhance recreation environment; regeneration of koa forests to assure a sustained supply of this valuable wood; the potential for economic utilization of local timber species; exotic tree species useful for timber, watershed cover, or wildlife suited to specific sites in Hawaii; and, the consequences—in terms of water yield, flooding, and erosion—of conversion of forest to other uses.

During the past year satisfying progress was made toward answering these questions. Seventeen research papers and reports have been prepared jointly with the U. S. Forest Service and circulated. These are listed in the Appendix.

Here are some research results:

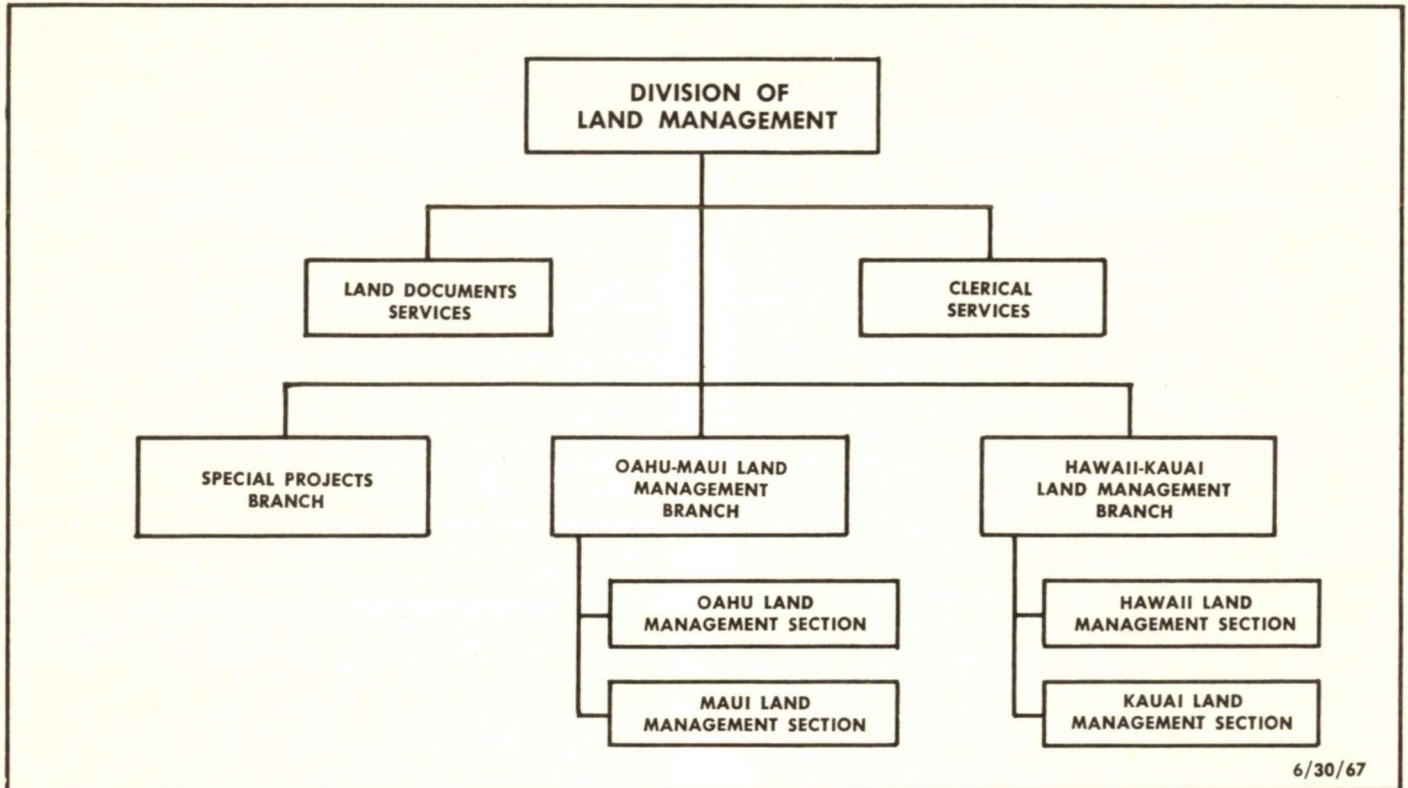
- A study of potential markets for lumber on Oahu shows that a total of 53 to 68 million board feet of wood could be used for flooring, siding, and cabinets in new single-family dwellings on Oahu during the five-year period 1965-1970.
- Planted forest stands on the island of Hawaii contains nearly 117 million board feet of sawtimber. Eucalypts make up 92 percent of this volume. On Kauai, 3,400 acres of planted stands contain nearly 2 million board feet of sawtimber, also mostly eucalypts.
- Contrary to expectations, we have not been able to measure fog drip in the Kula forests on Maui. Apparently the fog there is not wet enough to induce fog drip, although it may affect tree growth and water yield in other ways.
- Although local woods are not as resistant to decay and termites as is redwood, some of the eucalypts are more resistant than imported hardwoods, according to exposure tests underway at Makiki.

## SECTION 5

# DIVISION OF LAND MANAGEMENT

JAMES DETOR, Land Management Program Administrator

### ORGANIZATION CHART—DIVISION OF LAND MANAGEMENT



The Division of Land Management, under the broad policy and administrative direction of the Board, is responsible for the acquisition, management and disposition of the public lands of the State. The principal office of the Division is also an office of record and is responsible for the maintenance and protection of certain public records, such as land patent grants, leases and other documents issuing from this office.

The principal activity of the Division staff is centered around the management of lands under the control of the Department, and their disposition by sale, lease and revocable permit. The acquisition function, however, is rapidly becoming one of the major activities involving, as it does, all school acquisitions and all acquisitions for other departments except where federal monies are involved and the Federal Government requires the using agency to acquire directly.

The State land laws provide, generally, that State lands are to be leased only, and that all

dispositions are to be made at public auction. Permitted exceptions to these basic limitations include sales of residential houselots in fee; sales or leases of agricultural lands by drawing of lots by qualified farmers; and sales in fee of commercial, industrial or resort hotel properties, subject to legislative disapproval at the next regular or special session of the State Legislature after the dispositions are made. Sales and leases of State land may also be effected by direct negotiation which is, in effect, sale by sealed tender following public advertising.

The Department may sell, lease or grant permits, licenses, or easements directly without public auction to the Federal Government, governmental agencies or political subdivisions, and to public utilities. In the case of public utilities however, all such dispositions are subject to the subsequent disapproval of the State Legislature, and all such agreements must contain a repurchase provision

in the case of abandonment or non-use for the proposed utility purpose.

An important function of the Division is the regular inspection and policing of all State lands to insure compliance with the terms and conditions of various dispositions.

## LEGISLATION

The Land Management Division operates under the provisions of Chapter 103A, Revised Laws of Hawaii 1955, as amended, and under the Regulations of the Board, which have the force and effect of law.

Legislative action affecting the management of the public lands at the 1967 session of the Legislature consisted of a few "housekeeping" changes and corrections without any notable changes in content or policy except that the maximum term for land licenses was changed from one (1) year to twenty (20) years.

The administrative function for the State's fifteen Soil and Water Conservation Districts has been transferred by legislative action from the Department of Agriculture to the Department of Land and Natural Resources. This will not necessarily become a Land Management function but affects the Division in that the Division's Agricultural Land Use Specialist has been assigned the temporary responsibility for this function until a proper organization can be budgeted for and set up.

## DISPOSITIONS

During the fiscal year, the Division sold 83 houselots comprising an area of 19.5 acres for a total sales price of \$440,800; \$60,743 above the upset price of \$380,057. Reflecting these sales, 84 Special Sale Agreements were processed and issued covering 19.68 acres and a value of \$442,064. The disparity between the two sets of figures is due to the sale, in addition to the houselots, of a portion of an abandoned railroad right-of-way. The 81-lot Weliweli subdivision on Kauai accounted for practically all of the houselots sold.

One resort hotel lease was sold in the Ocean View Lots on Waiakea Peninsula in Hilo, Hawaii. The lease on the 40,517 square foot lot was sold at public auction. The annual rental bid of \$10,600 was \$3,290 above the upset rental of \$7,310. Term of the lease is 65 years and the lessee is required to invest \$1,000,000 in improvements during the first two years.

General leases sold during the fiscal year totaled 66, covering 7,946 acres for an annual rental of \$164,061.

More than 16,300 acres were encumbered by 125 revocable permits on all islands, with an annual rental of \$133,749.

A total of 143 land patent grants were issued during the year, and 534 acres were made available to various government agencies by 42 executive orders.

One of the more important dispositions of the fiscal year was a sale of a 65-year lease on 130 acres of the Waimanalo proposed Fairgrounds site for a privately operated golf course. The City and County of Honolulu had requested the site and was prepared to develop it as a municipal golf course. A private developer, however, offered to develop the site at no public cost, and to operate it as a public course—rates to be determined by the Chairman, no exclusive memberships, and the public freely admitted to course and club facilities at all times. In effect, the State will obtain a public golf course paid for entirely by private capital, and the land will be taxable.

Another important lease was a 300-acre agricultural lease sold to a local potato chip manufacturer on the Island of Molokai. The lease, with an upset annual rental of \$4,380, was bid to \$28,000. The potato chip manufacturer is raising his own potatoes in an apparently successful operation.

## LAND EXCHANGES

Two land exchanges were negotiated and sent to the State Legislature for decision as to whether to exercise the statutory right of disapproval. The A & B exchange on Maui, involving the State's old Puunene Airport and A & B's community college site and the proposed State prison site, was disapproved. An exchange of lands with Kahua Ranch on Hawaii, however, was not disapproved.

## WATERFRONT ACQUISITION

The staff put in considerable work in preparing an exchange with the Dillingham interests to use State lands for acquisition of a portion of the DILCO waterfront properties. State lands involved had an appraised value of slightly over \$40,000,000.00 and the DILCO lands had an equal value based on 100% of tax assessed value. It was ultimately decided, administratively, to acquire the waterfront lands by outright purchase through bond funding, and the exchange was not presented to the Legislature. The effect of this action was to cancel the exchange.

Acquisition of the waterfront properties has been delegated by the Board to the Department of Transportation with this division held responsible only for the appraisal.

## ACQUISITION

This function is rapidly expanding, due primarily to the recently-acquired responsibility for acquiring properties required by the Department of Education for school sites, playgrounds, library sites and other school purposes.

Another considerable increase in the work load of this section is occasioned by an administrative determination that this division has responsibility for acquisition of all lands required by the Department of Transportation, with the exception of properties needed for Federal Aid Highways and

for projects where federal funds are involved and the Federal Government requires that the using agency make the acquisition directly. Where acquisition is by condemnation, the acquiring agency may, at its option, institute condemnation proceedings.

Land acquisition transactions completed during the fiscal year totaled 12, involving 67.3 acres with a value of \$1,077,790. There were 49 new transactions initiated, with an area of 5,733 acres and a value of \$10,282,010. Transactions now in progress total 67, with an area of 6,229 acres and a value of \$11,459,810.

#### OTHER ACTIVITIES

Staff appraisals made during the year total 119 on all islands. During the period, also, the Staff reviewed and recommended rentals for 576 revocable permits on the various islands.

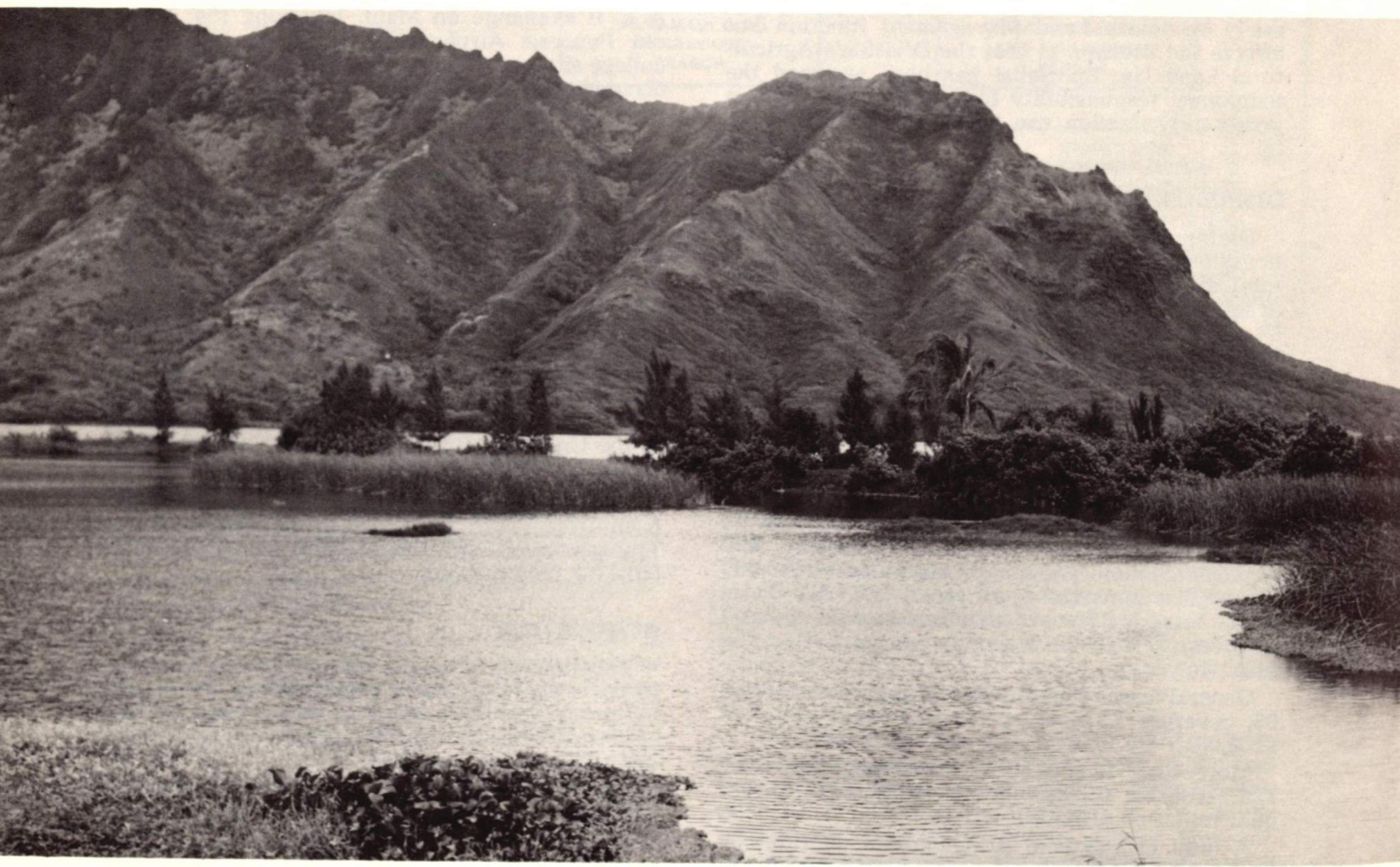
The agricultural lands inspection and report program was stepped up considerably during the fiscal year. The staff Agricultural Land Use Specialist made 21 inspections of leased lands to determine if conditions of dispositions were being com-

plied with. Reports and recommendations for solutions were made in cases of breach or default.

A total of 58 inspections were made of lands proposed to be leased for agricultural purposes on all islands. Eighteen inspections and reports were made on revocable permit areas, with recommendations for updating rentals and conditions.

A major goal of the Division in this area is the establishment of a systematic inspection program which will insure that all encumbered lands will be inspected every year for compliance and technical assistance, and all unencumbered lands proposed for disposition be inspected and recommendations prepared before plans reach the final disposition stage.

Sixteen completed searches of title, six land court citations and five memoranda on roads and easements were completed by the abstracting section during the year. Included in the title searches were Kahana Valley, Oahu, Wainapanapa Caves and Hamoa Beach Lots on Maui, and Waikoloa Water Rights, Kohala, Hawaii. The Department of Transportation provided vital assistance to the Division in several of the more urgent searches.



Huilua, the ancient fishpond of Kahana Bay, is designated as a National Historic Landmark. The pond is included in the acquisition of Kahana Valley State Park.

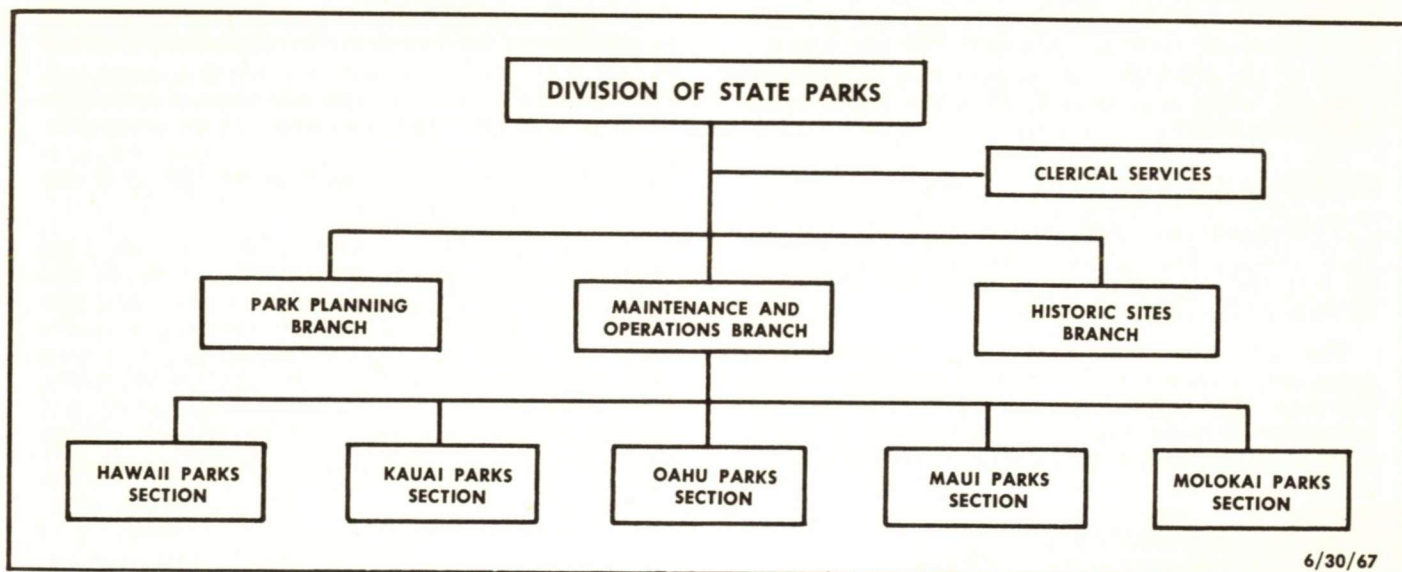
—Division of State Parks photo

## SECTION 6

# DIVISION OF STATE PARKS

JOSEPH M. SOUZA, JR., State Parks Director

## ORGANIZATION CHART—DIVISION OF STATE PARKS



6/30/67

The primary responsibility of the Division of State Parks is development and management of programs and facilities for public enjoyment, and effective protection, of recreational, historical, and archaeological resources on State lands, and to a lesser degree, on private lands within Conservation Districts. The principal objective of the Division is to provide adequate opportunities for outdoor recreation to meet the regional and statewide needs of Hawaii's citizens and visitors alike. The State Parks outdoor recreation program is essentially oriented towards high quality experiences in outstanding scenic, historic, prehistoric and scientific sites. Strong emphasis is placed upon broad-scope recreational facilities, and on ocean beaches of more than limited or local interest. A high priority is placed on acquisition of private lands while these lands may yet be available, to meet future recreational needs of the public.

Hawaii's recreational and scenic features constitute prime attractions for the State's most important growth industry—tourism. Our historic and archaeological structures and sites are unique in the nation, and their potential for attracting and holding the interest of visitors has hardly been touched. An important objective of the Division is to preserve and enhance these cultural features so as to maintain Hawaii's fundamental image.

Trends in outdoor recreation, as affected by population growth, increases in spendable income, increased leisure time, greater mobility and intensified urbanization, in Hawaii as elsewhere, have resulted in greater need for open spaces of high natural scenic qualities and other recreationally important factors. These combined forces require

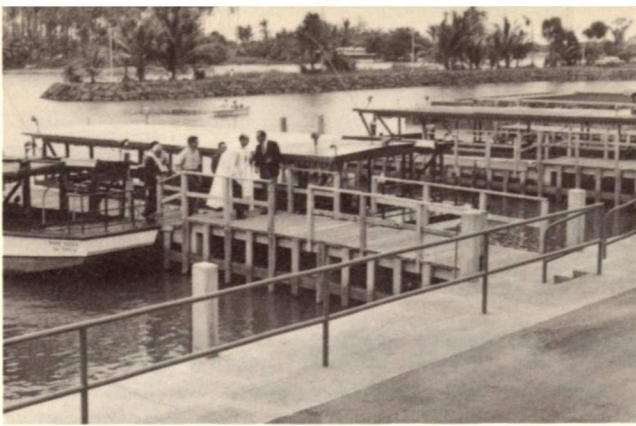
improved planning, acquisition, and management policies for parks and recreational areas to assure that future needs can be met.

An important objective of the Division is to provide low-cost overnight accommodations for inter-island vacationers. Although campgrounds are provided and maintained in a number of State parks and recreational areas, the nature of inter-island transportation is such that use of these camping facilities tends to be limited to local residents. Thus, increasing efforts of the Division are being directed to development of fully equipped camping shelters and cabins for the low-cost accommodation of families and groups on vacation trips. It is expected that this objective will assume increased importance as high volume, low-cost inter-island transportation becomes a reality.

### LEGISLATION

Act 254 of the 1967 Legislative Session places responsibility for coordination of efforts for historic preservation at the State level within the Department of Land and Natural Resources. In the past, this responsibility for State-owned historic sites had been fragmented among a number of agencies, including the Department of Accounting and General Services, the University of Hawaii, and the Department of Land and Natural Resources.

This new law requires that all State historic areas and buildings presently administered by the Department of Accounting and General Services for maintenance purposes, shall be transferred to the Department of Land and Natural Resources on July 1, 1968. In addition, all State projects and



Major marina facilities constructed at Wailua River State Park, from which tours leave for Fern Grotto, one of the State's most popular visitor attractions.

programs planned or currently in progress relating to historic preservation and restoration shall be placed under the authority of the Department. This will involve for example, Iolani Palace and Iolani Barracks, for which a total sum of \$120,000 has been appropriated.

The law also authorizes the Department, in cooperation with the Department of Planning and Economic Development, to prepare statewide historic preservation plans, establish and maintain a register of historic areas, and to establish regulations covering the use of such areas; and, to develop in cooperation with the Department of Planning and Economic Development, a statewide survey of historic sites and a phased preservation and restoration plan. The Department is also authorized to provide for matching grants-in-aid to political subdivisions and private agencies which will fulfill the purpose of the act.

The sum of \$25,000 was appropriated to carry out the purposes of the act, and which will also serve in part to qualify the State for federal aid funds under the National Historic Preservation Act of 1966. Preliminary work has been initiated within the various functions authorized or required by the act, although no federal funds have as yet been made available.

All Departmental functions under Act 254, along with the administration of historic sites and the Antiquities Act, are delegated to the Division of State Parks.

## HISTORIC AND ARCHAEOLOGIC SITES

The Historic Sites Section of the Division was re-activated on October 1, 1966, after being inactive for over four years, when a State Parks Historian was employed first on contract and then on permanent position.

Initial accomplishments of the Section include a research survey of the Kohala District on the island of Hawaii, and a review of the reconstruction plans of Hoku Loa Church at Puako, Hawaii. The program for marking historic and prehistoric sites was also re-activated with the casting of a plaque for Aliiolani Hale (State Judiciary Building) in Honolulu. National Historic Landmark plaques have been received from the National Park Service for ten State-owned sites which have been so designated by the Service. These sites include



The Black Sand Beach at Pailoa Bay, Waianapanapa State Park. The new park cabins here each have a superb view of segments of this rugged shoreline.

the Wailua Complex of Heiaus and the Captain Cook Landing Site on Kauai; Kamakahonu, Honokohau Settlement, Mauna Kea Adze Quarry, and the South Point Complex on the island of Hawaii; Hokukano-Ualapue Complex on Molokai; and, Puu O Mahuka Heiau, Huilua Fishpond, and Iolani Palace on the island of Oahu.

Interpretive efforts of the Section include installation of an interpretive board on the "Kings Highway" in MacKenzie State Park on Hawaii, and the publication of "Monarchy Promenade", a self-guided walking tour guide of central Honolulu historic buildings and sites. At the end of the year, plans were well advanced for the inauguration of this tour guide, to coincide with the dedication of the National Historic Landmark plaque at Iolani Palace early in the 1967-1968 fiscal year.

## PARK ACQUISITION AND DEVELOPMENT

The Division is vigorously pursuing a program for acquisition and development of major State parks on each of the principal islands in the State. These are areas, usually of considerable size, which contain outstanding natural scenic qualities, and they may also contain historic or archaeologic values, areas for recreation accommodations, and other related values.

Major projects of note during the year included the acquisition of 5,260 acre Kahana Valley on the island of Oahu, for a major park. This acquisition is being carried out in five installments with payments of approximately \$1 million on each installment. Two annual payments have been made, and legislative appropriation has been passed for the third. Court action has awarded possession of the site to the State, subject to completion of the two additional installments. The State has received a grant in excess of \$87,000 for Federal Open-Space assistance in a portion of this acquisition. Preliminary plans are now in preparation for this project, which is proposed as the principal site of the federally chartered Pacific National Tropical Botanic Garden, and also of a complete reconstruction of a typical Thai village by the Southeast Asia Foundation.

A major construction accomplishment was spotlighted with the dedication and formal opening, on June 3, 1967, of the Wailua Marina in Wailua River State Park on the island of Kauai. Although

in part still under construction, the facility is in limited operation.

The moorage basin at the Marina, which was excavated from a riverside marsh, provides tie-up space for 16 large tour boats with ample access piers. Smaller piers provide berthing space for up to 20 private recreational craft, with additional space being available for ultimately doubling this capacity if desired. Trailered boat access is provided by a paved launching ramp. Onshore facilities include ample parking space for vehicles and boat trailers, a repair area, and a combination storage-restroom building.

Twin major buildings provide tour boat ticket areas, gift, florist and large restaurant concessions, and ample covered and open waiting areas. These buildings are on a terrace, elevated above flood levels, and separated from the lower levels by massive native stone retaining walls. The end walls of the buildings are also of this native stone, with great sweeping roofs of split cedar shakes.

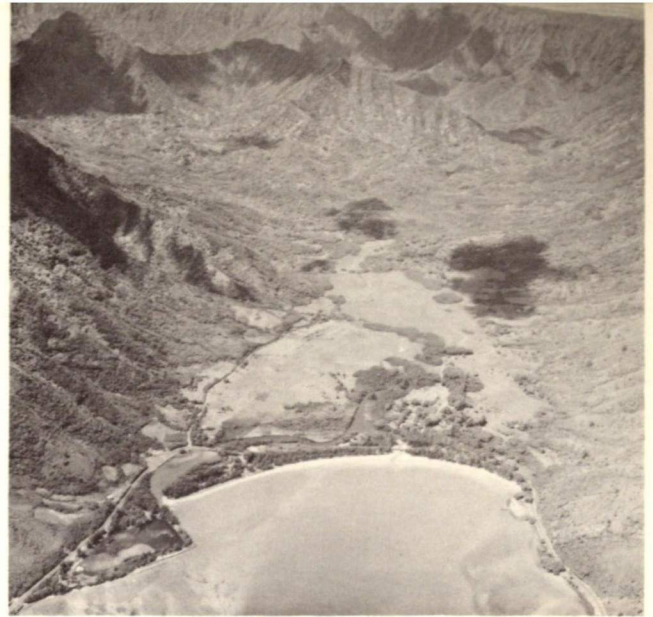
Landscape plantings include colorful plant materials of the humid tropics. The entire facility is separated from the river proper by a berm or levee planted with coconuts, hala, naupaka, and other indigenous plants.

Construction costs at completion will approximate \$1 million, but the actual value will be much greater. Concessions, and returns from commercial tour boat operations are expected to eventually return more than the State's investment.

Building and electrical engineering designs were supervised by professional consultants, and engineering was provided by the Division of Water and Land Development. General layout and landscape planting plans and all plan executions were by Division of State Parks staff. Although some elements such as paved surfacing, electrical installations and steel building frame erection were by contract, the major construction was by park forces hired for the purpose from lists of unemployed on Kauai. Equipment was obtained by lease, or purchase, and materials were largely supplied by contract. High standards of design and construction were maintained throughout, and the finished product is a great credit to the men involved and to the Division.

Other major construction projects include the completion of six vacation cabins in Waianapanapa State Park, Maui, and a group cabin facility in Mauna Kea State Park, Hawaii. A canal reshaping project was completed and work was started on a \$270,000 visitor center building in Wailoa River State Recreation Area in Hilo, and site work began on Hapuna Beach State Park, Kawaihae, and in Kalopa State Recreation Area, Hamakua. On Kauai, major water system improvements were made at Kokee State Park, a new Waimea Canyon lookout was initiated at Puu Hinahina, and work got underway on a new Polihale State Park, Barking Sands.

The Puu Hinahina Lookout development project is being carried out with Job Corpsmen stationed



**Kahana Valley State Park, extending from the sea to the crest of the Koolau Mountains, will offer recreational opportunity unrivaled on the Island of Oahu.**

—R. Wenkam photo

in the Kokee satellite camp, supervised by Division personnel. This is a mutually beneficial program as training and experience is being achieved in equipment operation and maintenance, building trades, etc., and at the same time an excellent job of construction is being accomplished.

There was a total of approximately \$1.6 million expended during the year on acquisition and development projects. However, a total of \$523,000 has been committed by the Federal Bureau of Outdoor Recreation (BOR) for 50% reimbursement of a major share of the expenditures in Mauna Kea, Waianapanapa and Wailua River State Parks. At year's end an application was being processed for BOR participation in Hapuna Beach State Park.

## **PARK SYSTEM EXPANSION**

Certain of the projects mentioned above are newly acquired under jurisdiction of the Division or are entirely new parks intended to relieve excessive demands upon present facilities or to broaden and diversify recreational opportunities. In addition to Polihale Park, Kauai, and Hapuna Beach park and Kalopa recreation area, Hawaii, Hikiau Heiau State Monument and Wailuku River State Recreation Area (Rainbow Falls and Boiling Pots), Hawaii and Waahila Ridge State Recreation Area, Oahu, have been added to the system. Also at year's end, the Division was given the responsi-

**Lower Kahana Stream in the Kahana Valley State Park promises fishing and boating within its scenic shores.**

—R. Wenkam Photo





**Rainbow Falls, a justly popular visitor attraction in Hilo, is now administered by the Division of State Parks.**

bility of maintaining the grounds of Iolani Palace. These additional areas total some 300 acres. There are now 34 areas in the State Park System, as against 27 a year ago.

These varied areas are classified as parks, monuments (historic or scientific), recreation areas, or waysides according to their characteristics and functions. Correspondingly, development and management differ somewhat also, to suit the character and function of the area.

## **PARK USAGE**

Recreational visits to state parks have continued to increase phenomenally, especially through the past four years, with estimates exceeding 3 million for the first time this year. Estimated usage was only 666,000 in 1963 and 3,204,000 this fiscal year, an increase of nearly 500%. This trend is due to the influence of the various factors affecting recreation enumerated above, and to the addition of new facilities, and must be in part attributable to the high standards of management maintained by the Division.

## **PERSONNEL**

Personnel training, operational and maintenance matters are under the supervision of Akira M. Kubota, who was promoted from broad experience within the organization to Superintendent of Operations and Maintenance.

On October 1, 1966, Jane Silverman was transferred from the Department of Education, where she served in a librarian capacity, to the Division as State Park Historian, heading the Historic Sites Section. Miss Silverman is eminently qualified by education, experience and avocation for the position.

The parks construction and project planning functions have been assisted since December, 1966 by William P. Enriques. A trained landscape architect, Mr. Enriques also had experience with a prominent local planing and engineering firm before joining the Division staff as a park planner.

Due to the fact that the 34 state park areas are maintained by only 38 field personnel, in-service training has been stepped up to assist in attaining peak efficiency. The previously stated importance of these scenic and historic attractions to the visitor industry and to the quality of recreational experience of Hawaii's citizens emphasizes the need for high quality management and also suggests the importance of interpretive programs.

Field personnel are being made ever more aware of the natural history and cultural aspects of the areas they work in, so they may be more informative and helpful to the using public, and so they can maintain and develop the areas more sensitively. Field personnel must also be fully conversant with the laws and regulations they are required to enforce, the handling of hazardous situations and emergencies, and the like.

Three island supervisors have thus far taken part in two month reciprocal training programs of the National Park Service. Each has served as a temporary ranger in Hawaii Volcano National Park, receiving instruction and experience in administration, enforcement, public safety, natural and historic interpretation, construction, plan execution, park management, personnel, public relations, and the like. This has proved to be an invaluable program.

A broad inservice program has been put into effect for all personnel in an increasing effort to upgrade the standards and performance of all management and maintenance people. For example, most of the Oahu field personnel attended the annual Oahu turfgrass management conference. Other conferences attended included the National Congress on Recreation and Parks and the National Conference on State Parks annual meeting, both on the mainland. This was supplemented by occasional statewide meetings of supervisory and field personnel for training and discussion of mutual problems.

On Oahu, the Division is utilizing the Nelson Amendment Program (originally "Green Thumb" project, now "Operating Mainstream") in the maintenance, protection, improvement and beautification of parks and historic sites. There have been from 12 to 14 maintenance crewmen, a maintenance crew chief and a half-time clerk-stenographer employed on this project, where they have been given training assistance. The purpose of the program is to provide training and experience which could lead to gainful employment, especially for those who are chronically unemployed, those with poor employment prospects, and those who are unable, because of age or other causes to secure appropriate employment.

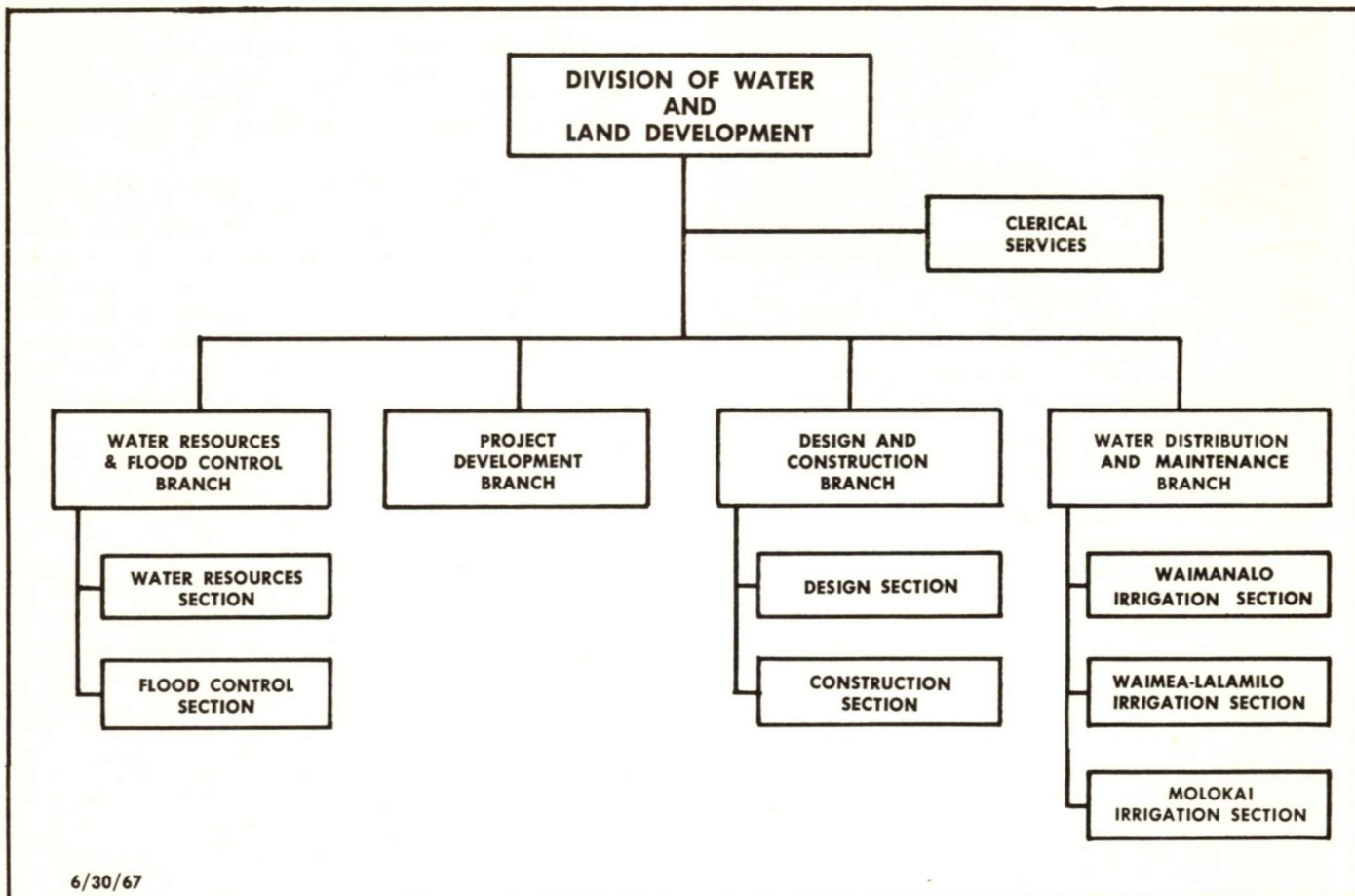
In a state funded program, approximately forty students are employed during the summer in the Kauai and Hawaii park districts to assist in the eradication of noxious plants and in the clearing operations and maintenance. There have been considerable benefits realized, both to the State and to participants in the program thus far.

## SECTION 7

# DIVISION OF WATER AND LAND DEVELOPMENT

ROBERT T. CHUCK, Manager-Chief Engineer

## ORGANIZATION CHART DIVISION OF WATER & LAND DEVELOPMENT



The Division of Water and Land Development is assigned direct responsibility for state-wide water resources and flood control programs which include coordination of requests for state and federal assistance, development of master plans, advice on research projects, cooperative establishment of data collection programs, and initiation of development projects. The Division also plans, develops and maintains irrigation systems to serve state lands. Further, the Division serves as the engineering arm of the Department in respect to subdivisions, water development and other improvements of state lands, state parks, fish and wildlife facilities and forest reserves. The Division staff also provides technical advice and information for the regulation of land use within conservation districts and state land leases and enforces the rules and regulations governing artesian basins and ground water use.

The functions of the Division are carried by four operating branches—Water Resources and Flood Control, Project Development, Design and Construction, and Water Distribution and Maintenance.

### LEGISLATION

There were no significant changes in the state law or administrative policies which have had effect on the responsibilities or functions of the Division. However, in September 1966, Congress, under Public Law 89-553 amended the Small Reclamation Projects Act of 1956 by:

1. doubling the appropriation from \$100 million to \$200 million;
2. increasing the maximum loan and/or grant for any project from \$5 million to \$6.5 million; and,
3. changing the method of computing the interest rates on the interest bearing por-



Waterfalls such as this abound in the rain forests of Kohala Mountain on the Big Island, where water resources surveys are currently being conducted.

tion of the federal loan, which, in effect, lowered the interest payable on the federal loan and stabilized the fluctuating interest rate thereby providing the applicant a more dependable basis for determining project economic feasibility.

The Small Reclamation Projects Act has been used to finance the Molokai Irrigation Project, and is being used as the basis for an application to Congress for a loan to finance the Kokee Water Project. The amendment of Public Law 89-553 is expected to be beneficial to the state.

#### **WATER RESOURCES**

The Department of Land and Natural Resources is the state water resources agency and administers the state's water resources program through the Division. Under this program, the Division coordinates state-wide water resources planning, research, development and management activities; carries out comprehensive state-wide water resources planning; maintains basic water resources data; conducts hydrologic investigations and studies; regulates and enforces ground water statutes; and, provides general water resources information service. Hawaii's social and economic growth over the past year continues to place an increasing demand on Hawaii's water resources planning, research, development and management. Federal, state, county and private organizations have shown great concern and are developing programs to meet specific needs. It is essential that the state water resources agency concerned with all uses of water coordinate all programs to maintain a balanced allocation of water uses.

During the past year, major emphasis was placed on establishing a state-wide comprehensive water resources planning program. The state legislature made available \$50,691 for this purpose and

\$34,600 in federal grants was received from the Water Resources Council, under Title III of the Water Resources Planning Act of 1965, for the purpose of augmenting and accelerating Hawaii's water resources planning program. In view of Hawaii's insular geography, planning efforts are being accomplished on an island by island basis. Under this augmented program the island of Hawaii is currently being evaluated and an island-wide inventory of all water and related land resources data is underway. Subsequent phases will include evaluation of the basic data and formulation of guidelines for future planning, research, development and management of the island's total water resources.

Considerable emphasis was placed on basic water resources data collection program by evaluating the present data collection networks, and in design of new networks. Consideration in relocating and establishing new stations was determined on the basis of future needs of the federal, state, county and private agencies in Hawaii. The major elements included in the data collection program are precipitation, stream flow, ground water occurrence and availability, water use, and flood data.

Under a cooperative agreement with the U. S. Geological Survey, the Division continued its broad program in comprehensive stream gaging, ground water monitoring, and areal hydrologic investigations. During the year the Survey operated and maintained about 300 stream gaging stations and published daily stream flow records in a report entitled, "Water Resources Data for Hawaii and Other Pacific Areas—1966". Reconnaissance water resources investigations, which generally state the water situation in an area and point out water problems which require a program of data collection and hydrologic investigations, are almost complete for the island of Hawaii. Near the end of the year other investigations were begun in the Lahaina District of the island of Maui. In addition, results of the reconnaissance investigations will be used in evaluating data collection networks, and in preparing the comprehensive water resources planning for the islands. Areal hydrologic investigations for the island of Oahu, which are detailed studies of hydrological conditions, are nearing completion. The final reports for Windward Oahu, Kahuku and North Central Oahu are undergoing review in the regional and Washington offices of the U.S.G.S.

The Division, under a cooperative climatological data collection program with the U. S. Weather Bureau and the Hawaii Sugar Planters Association, is continuing to maintain records from approximately 1,000 rain gages throughout the state. Periodic field inspections are being carried out to assure the reliability of rainfall records under this cooperative program.

The state-wide exploratory well drilling program, which is designed and programmed to provide subterranean, hydrologic and geologic information in selected areas, drilled wells during the past year at Alaeloa and at Pauwela on the island

of Maui. The well at Alaeloa indicated that there is only a slight possibility of developing adequate potable water in the Lahaina District below ground elevations of 500 feet, while the Pauwela well showed that in the area of Paia and Haiku there are good possibilities for developing potable domestic water from the ground water aquifer.

About 500 wells were inspected and tested to determine compliance with existing statutes governing artesian wells in Hawaii. Those found in violation were corrected through such actions as sealing, controlling or repairing the wells.

The Division is represented on the Advisory Board of the Water Resources Research Center of the University of Hawaii and has contributed to the following research projects which are of particularly interest to the Division.

1. Determining methods to remove color from surface water supplies.
2. Developing geophysical methods of locating ground water aquifers.
3. Developing electric logging techniques for use in development of wells in Hawaii.
4. Developing criteria and methodology for the establishment of data collection networks in Hawaii.

## FLOOD CONTROL

The Department of Land and Natural Resources is the State's Flood Control Agency. This Division coordinates all federal and state flood control projects undertaken in Hawaii, and provides technical assistance and/or recommendations for financial assistance to meritorious flood control projects. The Division maintains a general flood control plan which is regarded as a guide for the orderly and coordinated implementation of a statewide flood control program. To carry out its mission, the Division coordinates the program activities of all agencies of the state; compiles, evaluates, interprets and disseminates information for technical use; renders technical assistance in matters of master planning, zoning, qualifying for and constructing federal and state flood control projects, obtaining flood fighting units and other related flood control activities; reviews federal flood control projects for state approval; and, initiates meritorious flood control projects. The Division, working closely with federal, county and private agencies and community organizations, has emphasized the need for accurate information on and careful delineation of flood plains to minimize damage caused by flooding. The U. S. Army Corps of Engineers and the U. S. Geological Survey are providing assistance in preparing flood plain information reports which point out the flood hazards and recommend corrective action necessary to minimize damage. During the past year, a flood plain information study was completed for Koloa-Poipu, Kauai; and a draft report submitted for the Pupukeya-Paumalu area on Oahu. Studies requested by the Division and now in progress include Kihei, Maui; Anahola, Kauai; Wailua, Oahu; Waiahole-Waikane, Oahu; Makaha, Oahu; Waimanalo, Oahu; Punaluu-Hauula, Oahu.



The sewage treatment plant at Waimanalo will include a control building, shown here under construction.



The sludge drying beds of the Waimanalo sewage treatment plant are topped with glass to improve the efficiency of the system.

The Division maintains a complete file on flood damage in the State of Hawaii. The file includes newspaper reports, reports from flood agencies and survey reports of actual damage conducted by the staff. Immediately following any flood occurrence in the State, the Division, in cooperation with state and county Civil Defense Agencies, the U. S. Army Corps of Engineers and the U. S. Soil Conservation Service, canvass the inundated areas to determine the extent and severity of damage. All information compiled through this joint effort is evaluated in the Division's Honolulu office for justification of future flood control projects.

Under a cooperative agreement with the U. S. Geological Survey the Division plans and maintains a network of crest-stage stations to measure peak flows during floods. There are approximately 100 stations in operation throughout the state. Data and analysis of the data collected from these stations are collated and published in an annual progress report.

The Department together with the County of Hawaii and the Mauna Kea Soil and Water Conservation District is co-sponsor for the Puukapu Watershed Project on the island of Hawaii. This project is presently being constructed under Public Law 566, administered by the U. S. Soil Conservation Service. The first phase consisting of the construction of a flood water retarding dam has been completed. Contracts are now being let for the construction of wells to handle discharge from the reservoir. Other projects under Public Law 566 include the final planning of the Kona Water-

shed Project on Hawaii, the Kahaluu Watershed Project on Oahu and the Honolulu Watershed Project on Maui. These projects were accelerated by the Division through a contribution of \$20,000 under a trust fund agreement with the U. S. Soil Conservation Service. The Division rendered additional service to the Kahaluu project by providing the topographic survey work necessary for development of detailed plans. In addition, the Department has approved a project application for the Wailuku-Alenaio Watershed on the Big Island and the Honouliuli Watershed on Oahu.

Under Public Law 685 which provides federal assistance through the Corps of Engineers, the Kuliouou Flood Control Project sponsored by the City and County of Honolulu has been approved by the State and is ready for construction.

### MINERAL RESOURCES

The Division administers a cooperative agreement with the U. S. Bureau of Mines for canvassing the production of minerals in the State. This information is published annually in the Minerals Yearbook by the Bureau. Principal mineral commodities reported under this survey include cement, lime, pumice (volcanic cinder), sand and gravel, stone, gem stones (black coral), clay and solar-evaporated salt.

The Division also provides technical assistance on all matters relating to mineral resources. It maintains an up-to-date listing of mineral producers in the State and serves as the State agency for mineral resources and mining information. During the fiscal year more than 150 requests for rock samples and technical information were handled.

### WATER DEVELOPMENT

The development of water resources for irrigation and domestic use, and the construction of distribution systems, comprise an important function of the Division.

Kokee Water Project on the island of Kauai is one of the major projects currently under consideration. This project, estimated to cost \$20 million includes proposals for maximum practicable development of agriculture by irrigation of suitable lands. It also proposes the production of the maximum practical amount of hydroelectric power; development of associated fish, wildlife and recreational potential to the fullest justifiable extent; full consideration for opportunities to reduce flood damage by utilization of project work; and the most economic utilization of existing facilities. The report on this project was prepared jointly by the Department of Land and Natural Resources of the State of Hawaii and the Bureau of Reclamation. Concurrence with the fish and wildlife and recreational aspects was received from the U. S. Fish & Wildlife Service and National Parks Service respectively. The project is economically feasible (Benefit-cost ratio is 1.44 to 1.00) and the Hawaii Delegation to Congress has introduced Legislation which will permit the State to undertake this



**Water from verdant Waikolu Valley in East Molokai will soon flow through this pipeline to the croplands in dry West Molokai.**

project under a loan agreement with the U. S. Bureau of Reclamation.

The Kona Water Project is also a major water project, and is designed to serve the domestic water needs of Kona. During the past year, a 12-inch transmission line was installed along Kua-kini Highway from the Kahaluu well source toward Kailua. Also, 8-inch transmission mains and booster pumping stations were installed along Mamalahoa Highway toward the Keokea Junction.

Planned developments in the Pohakuloa area of the island of Hawaii initiated a search for water to meet the requirements of military and state parks activities. In a joint effort with the Water Resources Research Center of the University of Hawaii and the U. S. Geological Survey, the Division contracted for a geophysical investigation utilizing the electrical resistivity method of locating high-level ground water in the area. Findings of the survey show that high level ground water probably exists at about 3,000 feet below the surface of the ground (approximate elevation 3,600 feet.) The economic feasibility of developing water from this level is questionable.

The closest surface water source available to serve the Pohakuloa area is the headwaters of the Wailuku River. Development of this source would involve the installation of stream diversion work, 22 miles of pipeline, a series of booster pumping stations to lift the water 3,000 feet from its source to the Pohakuloa area and, adequate storage reservoirs. Preliminary investigations show that sufficient surface water is available for development to serve the anticipated demand at Pohakuloa.

The Molokai Irrigation Project, estimated to cost approximately \$9.9 million, is financed in part by a loan of \$4.5 million from the U. S. Bureau of Reclamation and in part by state funds. The Division is presently constructing distribution lines in the service area to provide irrigation to pineapple lands in Kualapuu and Hoolehua districts, and to diversified crop lands in the state's farm lot area in Hoolehua.

The Department's continued development in the Hamakua-Kohala area was aided by the Water Resources Research Center which conducted studies for the removal of color from waters originating in the Kohala mountains. The research proved that color can be removed, and established the criteria for the type of water treatment needed. Based on the results of the research project, plans and specifications for the construction of a water treatment plant were prepared.

During the past year the diversion structures, supply line, and rehabilitation of the existing reservoir in the Kohala mountains were completed. Bids for the water treatment plant will be opened this summer. The design of a 50-million gallon reservoir is underway.

## LAND DEVELOPMENT

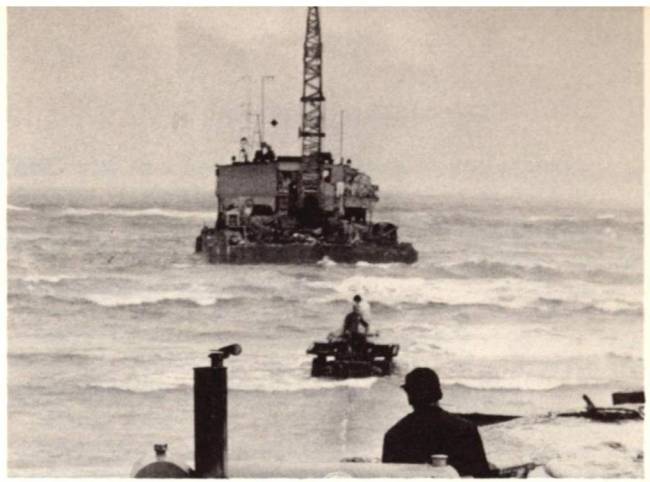
The Division is actively engaged in development of state-owned lands into residential, industrial, recreational, resort and other uses. Of prime interest is the Sand Island Study recently initiated to determine the feasibility of reclaiming reef land adjacent to Sand Island, providing a second access, and preparing plans for development.

Near the intersection of Kam Highway and Middle Street on Oahu is the Shafter Flats Industrial Development. A subdivision consisting of 20 industrial lots ranging in size from 21,000 sq. ft. to 44,000 sq. ft. was completed. The second phase, which is ready to be advertised for bids, will consist of filling and grading the adjacent state-owned land to provide sites for state agencies which must be relocated from the Fort Armstrong area.

In Waimanalo a complete sewerage system consisting of interceptors, treatment plant and a disposal system is being constructed in phases to serve the Waimanalo Core Development. The sewage treatment plant is presently under construction and bids are presently being received for the construction of effluent disposal wells. Plans and specifications for the final phase consisting of a sewage pumping station and interceptors are nearing completion. This project is receiving a federal grant from the Federal Water Pollution Control Administration under Public Law 660 for a portion of the project.

The disposal of the effluent from the treatment plant through injection into deepwells is a unique method of disposal; and will provide substantial savings for the state over the alternative method of disposal through a long outfall into the ocean. Investigations conducted by the Division, cooperatively with the University of Hawaii, the State Department of Health, the City & County Sewers Division, the Honolulu Board of Water Supply and the U. S. Geological Survey shows that effluent disposal through such wells is practical and economical.

The Division has recently completed the Wailua Resort Sewerage System, which serves the State's Resort Development at Wailua, Kauai, and has extended an interceptor main to Wailua to collect sewage from that community. This project also re-



**Workmen preparing for subaqueous installation of outfall sewer for new sewerage system in Wailua, Kauai.**

ceived a grant from the Federal Water Pollution Control Administration under Public Law 660.

Plans are being finalized to improve Banyan Drive within the Waiakea Peninsula, Hilo. This project will revitalize this beautiful peninsula and provide the services needed to adequately support this rapidly expanding hotel area.

In support of a planned resort site at Keauhou Bay, North Kona, Hawaii, the State has constructed a new access to this area and has provided adequate water mains to serve the planned facilities.

## IRRIGATION SYSTEMS

The Waimanalo Irrigation System, operated by the state since 1953, and serving the largest concentrated diversified agricultural area on Oahu continues to add immeasurably to the economy of Hawaii. Vegetable crop production has remained stable but orchard crop acreage such as banana and citrus was increased during the year. Irrigation water consumption for the year was 99.8 million gallons which is comparable with the year before, even though the annual rainfall this year was lower by some 18 inches. This is due largely to the stepped up efficiency in irrigation methods among the water conservation minded farmers. The system now serves 95 consumers who occupy 905 acres.

The Lalamilo Irrigation System on the island of Hawaii completed its 6th year of operation. Twenty-three diversified truck farms are presently occupied in that farming area. The acreage under cultivation increased from 180 acres to 194 acres during the period and the sale of water is approximately 110.8 million gallons.

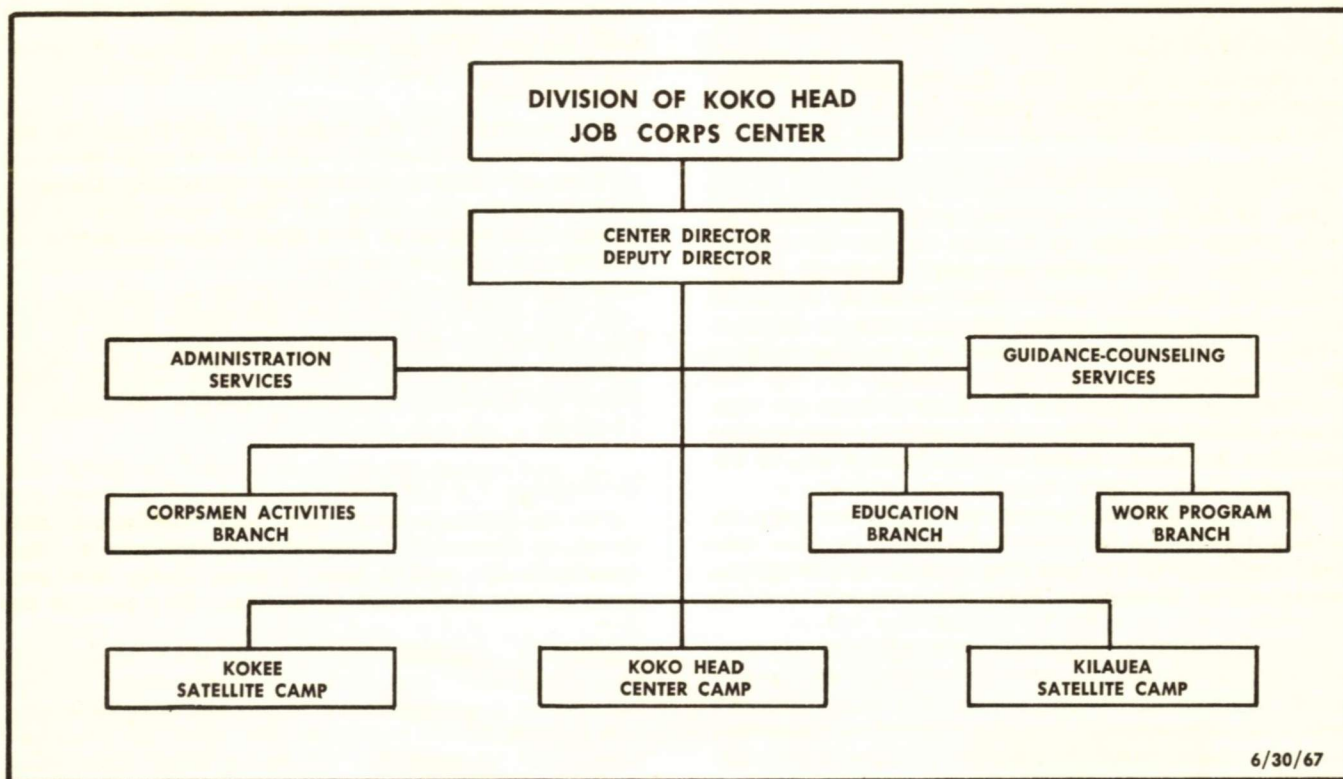
The Molokai Irrigation System completed its second year of operation. During this period distribution mains were installed along Pine, Moonomi and Hauakea Avenues. The total acreage of pineapple land irrigated by this system increased from 375 acres to 3,203 acres. Eighteen additional homesteaders have requested connections to the irrigation system. Of the eighteen, three are drawing to irrigate one acre of diversified crops in each lot. In addition, irrigation water is being used on 187 acres of potatoes in the State Farmplot Subdivision. During the past year 179.9 million gallons of irrigation water were sold.

## SECTION 8

# DIVISION OF KOKO HEAD JOB CORPS

RONALD F. BRISSETTE, JR., Executive Assistant

### ORGANIZATION CHART—KOKO HEAD JOB CORPS CONSERVATION CENTER



6/30/67

The Koko Head Job Corps Conservation Center, administratively the Job Corps Division of the Department of Land and Natural Resources, is responsible for implementation and execution of a program for disadvantaged male youths in the State of Hawaii. The basic mission is to "provide a residential training program designed to induce self-sustaining and productive young adults, sixteen (16) through twenty-one (21) years of age, to be responsible citizens by means of an integrated educational, vocational, guidance, and residential living program". This program is aimed at those disadvantaged youths who are generally school "dropouts", unemployed because of lack of employment skills and/or who are unable to assume the responsibilities of employment. They need a major change in environment in order to effect changes in their attitudes, self-image and confidence, and to become properly motivated in seeking a more orderly and meaningful existence.

## LEGISLATION

The Koko Head Job Corps Conservation Center is authorized under OEO Contract #648 between the State of Hawaii, through the Department of Land and Natural Resources, and the Office of Economic Opportunity which has its authority under Public Law 88-452, more popularly known as the Economic Opportunity Act of 1964. All Federal "anti-poverty" programs emanate from this basic law. The Job Corps program is one of the many anti-poverty programs designed to render assistance to disadvantaged citizens on the lower stratas of our social and economic order.

The Contract provides for a program consisting of a base camp at Koko Head and two permanent satellite camps located at Kokee, Kauai and Kilauea, Hawaii.

All funding for the program is a contractual obligation assumed by the Federal Government through the Office of Economic Opportunity.

## ORGANIZATION

In January 1967, the Koko Head Job Corps Conservation Center, underwent a reorganization under the direct supervision of the Chairman, Board of Land and Natural Resources. The reorganization strengthened the effectiveness of the program and led to a more efficient operation. The number of branches was reduced from six to five with the consolidation of the Logistics branch and the Administrative branch. Also, the total staff was increased from 57 to 77 with the opening of the Kilauea Satellite Camp in April 1967.

## ADMINISTRATION

Since its inception, the Center has functioned administratively as an operating division within the Department of Land and Natural Resources. However, supervision pertaining to the operation and the program is the direct responsibility of the Office of Economic Opportunity (OEO) through its Job Corps Division at Region 7, San Francisco, California. Due to this apparent division of authority and under the reorganization of the Koko Head Job Corps Conservation Center in January 1967, the Executive Assistant to the Chairman, a newly created position is responsible for the implementation of policies emanating from the Regional or National Office and is directly responsible to the Chairman, Board of Land and Natural Resources for the operation of the Center.

In June 1966, Alexander N. Kahapea, was appointed Director to replace Ralph E. Jordon who had resigned for reasons of health. Mr. Kahapea resigned in December 1966 for personal reasons

and was succeeded by the present Center Director, Moses Hanohano.

The Center Director, following the reorganization, is responsible for all Center activities, and for the operation of the base camp at Koko Head and its two satellite camps. Anthony T. Shannon, Camp Director at the Kilauea Camp, and Art Harrington, Kokee Camp Director, are directly responsible to the Center Director.

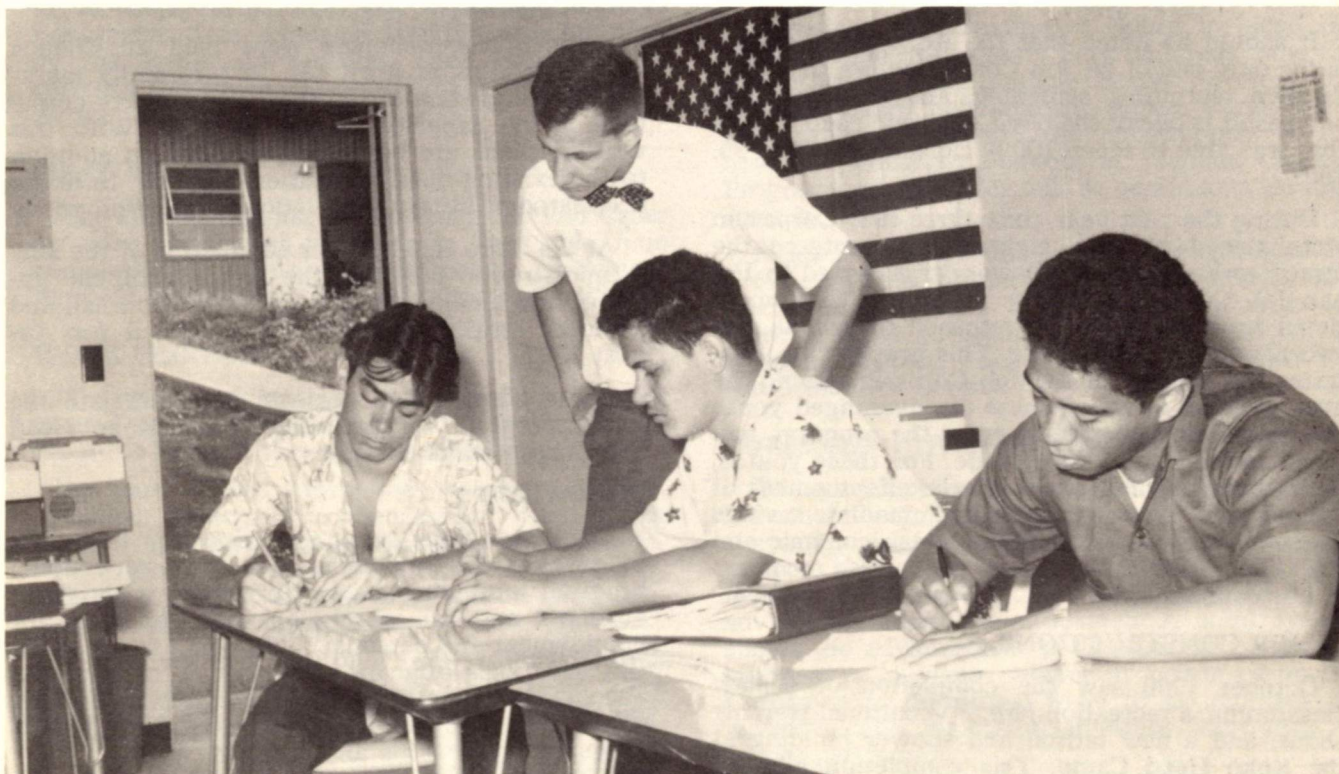
Each Assistant Director of the major program activities is responsible for implementation and coordination of his specific program activity at each of the three camps.

## PERSONNEL

In general it is the policy of the Center to recruit personnel from the island on which the camp is located. With exception of the Camp Director and Teacher-Counselor, all staff members at the satellite camps were recruited from the island on which the camp is located.

These employees were required to undergo orientation and training at Koko Head prior to assuming their duties shortly before the camps became operational. This practice enables each camp to function adequately with a minimum of confusion and disruption.

A continuous program for staff training and orientation on Job Corps policies, objectives and behavior management, has paid handsome dividends in terms of developing an attitude of "self involvement" and a real "concern" for the program. Their dedication to the part they play in the



Class in beginning reading.

total program has enabled the staff to reach a greater number of our unmotivated disadvantaged Corpsmen who enter the program with a "show me," "wait and see," or, "I don't believe anyone is interested in me" attitude.

Key staff members from the various branches also attended the programmed training institutes and conferences sponsored by the Job Corps Regional and National Offices for the purpose of learning the trends, techniques and other useful information in working more effectively with disadvantaged youth. Each staff member who attends such institutes disseminates such knowledge and information gained, through the Center's orientation and staff training program.

### **CORPSMEN ENROLLMENT AND GRADUATION**

One of the problems faced by the Center was that of maintaining the Corpsman population at 98% of capacity. In June of 1966 there were sixty-six (66) Corpsmen enrolled in the program. This represented approximately 60% of capacity. This level slowly increased to 153 by March 1967. At that time the Center was equipped to accommodate 250 Corpsmen. There was considerable concern that in spite of our recruiting assistance, the State's screening agency was unable to meet our programmed capacity.

On May 1, 1967 the Center was authorized to actively recruit and screen applicants for the Corps. On June 30, 1967 the Center was able to meet the contractual obligation and in fact had a capacity of 102% or two hundred fifty five (255) youths in the program.

It should be noted that the Koko Head Center is the only one of all Job Corps Centers that does its own recruiting, screening, and enrolling, and as a result is one of the few Centers in the country that was able to reach 100% capacity by June 30, 1967.

During the past year sixty-three (63) Corpsmen were placed on jobs, eighteen (18) entered the armed services, seven (7) were transferred to Urban Job Corps Centers for more extensive vocational training, seven (7) returned to school, and two (2) enrolled in college. This graphically illustrates the efficacy of the Job Corps Program. The average level at which these disadvantaged youth are functioning when they enter the program, and when tested, is the third grade. For these youths, their accomplishments reflect the effectiveness of the program. This represents an immediate savings to the State since rather than being economic and social liabilities, they are now productive members of our community.

### **MAJOR CONSTRUCTIONS**

October 1966 saw the completion of 6 new classrooms, a recreation hall, 3 vocational training shops, and a new latrine and shower building at the Koko Head Camp. This completion allowed the transfer of corpsmen from the temporary class-



**Site clearance at Diamond Head Botanical Garden.**

rooms at Fort Ruger to their new rooms, thus providing better and more efficient teaching facilities.

Completion of facilities at Kokee, Kauai, occurred in August 1966, and made possible the immediate transfer of 30 corpsmen to that satellite camp. Capacity of this camp is 60 corpsmen.

Dedication ceremonies were held at Kilauea Satellite Camp on April 15, 1967, formally marking the completion of the third camp. Forty corpsmen is the capacity of this satellite. With this writing, plans are being prepared for an addition to the existing mess/recreation building, to house a classroom, library, and indoor recreation room.

At the Koko Head Center completion of the new administration building, the motor pool, the pavilion, and modification of the recreation hall and resident worker quarters, is scheduled for August 1967.

These construction projects will complete the initial program for facilities of the Koko Head Job Corps and its satellites.

### **EDUCATION**

The major function of the Education Branch is to develop and implement a realistic educational program providing each Corpsman with those academic and human relations skills he needs for employment and personal fulfillment. Accordingly, the Job Corps education program is required for each corpsman and provides instruction/training in reading, mathematics, driver education, health, language study skills and world of work.

The success of the education program depends

essentially upon corpsman motivation to achieve educationally. This motivation is provided through delicate blend of: small teacher-pupil ratios; programmed learning and audio/visual materials; and group discussion techniques. Therefore, it follows that the education branch personnel are constant recipients of in-service training which will keep their skills current pursuant to continued effective instruction.

### ON THE JOB TRAINING

In July 1966, fourteen (14) corpsmen were assigned to the Hawaii National Guard (HNG) Diamond Head Facility for on-the-job training in warehousing, automotive maintenance, carpentry, electronics, and heavy equipment maintenance. This program however, was temporarily suspended.

Presently, there are ten (10) corpsmen assigned to HNG Diamond Head to receive advanced training in the above areas. It is expected that the number of corpsmen to be assigned in the future will total up to thirty or forty.

In addition to on-the-job opportunities at Diamond Head, other qualified corpsmen are assigned to similar program areas in the camp site. The present areas include: kitchen supply, cook training, warehousing, clerical work, dispensary operations, and custodial maintenance.

### SPECIAL TRAINING

Four corpsmen have completed specialized training in the operation of Xerox Reproduction Office Equipment. This technical training was provided by the Xerox Corporation. Each corpsman received a certificate of completion of training from Xerox Corporation.

### FIRST AID

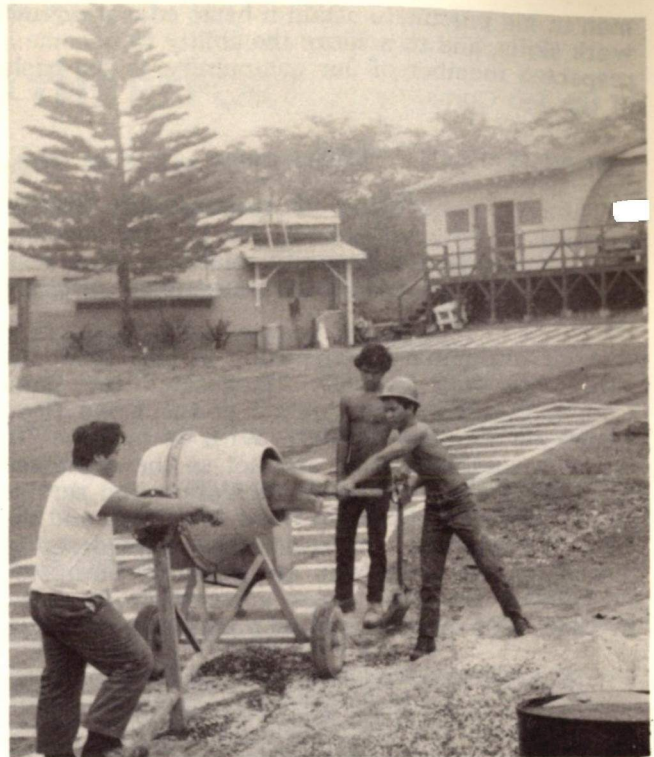
The Hawaii Chapter of the American Red Cross provided training of corpsmen in First Aid. Upon completion of training, each corpsman participant received the Standard First Aid Course Certificate.

### WORK PROGRAM

The work program has been and is continuing to emphasize improvements and beautification of the Koko Head, Kokee and the Kilauea camps.

As part of the on-the-job training program, corpsmen participate in planning and constructing walkways, bridges, small structures and other facilities that offer work experience in carpentry, welding, masonry as well as operation and maintenance of heavy equipment.

During the first half of FY 66-67, most on-the-job training work projects at Koko Head were spent on Center improvements and landscaping, but after January 1, 1967 through June 30, 1967, work began at the Koko Head camping and picnic sites in conjunction with the City and County



**Corpsmen sidewalk project**

Parks Division. This project is expected to run through to June 30, 1968 at which time the Job Corps will have expended approximately \$80,000 for materials and possibly 450 man months of Corpsman labor.

Corpsman participation at Kokee included the rehabilitation of the State Park buildings, now the site of this camp; Polihale Beach development, Waimea Camp development, Kokee Parks maintenance; and currently the construction of the new Puu Hinahina Lookout at Waimea Canyon. Programmed schedules will be continuous through June 30, 1968.

Kilauea Camp's work projects through June 30, 1967 consisted primarily of improvements and landscaping. The FY 67-68 schedule provide for work projects in numerous areas throughout the Kilauea National Park in conjunction with the National Park Service.

### CORPSMEN ADVISORY SYSTEM

To coordinate the program of the Corpsman in his educational, vocational and work program, the Corpsman Advisory System was adopted in September 1966. This system permitted each staff member to become more closely involved as an advisor for about five corpsmen. A point system shows the advancement of the Corpsman and attainment of a given number of points earns the Corpsman an additional \$5.00 to his monthly allowance. The maximum monthly allowance is \$50.00 per month.

This closer involvement of staff with the corps-

man in his pursuit to attain a basic education and work skills, and to achieve the ability to become a respected member of our community, is the basis of the Job Corps.

### CORPSMEN ACTIVITIES

Three general areas of responsibility in the Corpsman Activities branch are (1) the development of effective community relations, (2) a residential program, and (3) a recreational program for the enrollees.

After preliminary preparation in late 1966, the Job Corps staff formally inaugurated the Oahu Community Relations Council at the Koko Head Center on January 17, 1967. With its purpose "to improve communication and act as the organized focal point for cooperative recreation and service project between the Koko Head Job Corps and the Oahu Community," its membership is made up of individuals on Oahu who are sincerely interested in helping the Job Corps accomplish its basic mission. This mission is to help culturally deprived

and disadvantaged youths become genuine participants in our community. The council on Kauai was officially formed on July 5, 1967. The Kilauea Satellite camp will hold its first formal meeting sometime in August 1967.

The residential living program is aimed at developing the social and leadership qualities of the corpsman. Through his performance and ability in all phases of the Center program he can attain the position of dorm leader.

The recreational and vocational program includes physical education, physical training, competitive athletics and excellent varieties of recreational activities, such as arts and crafts, music and hobbies. All corpsmen are expected to participate in as many activities as will properly occupy their leisure time periods.

Competition with high school groups throughout the community has been undertaken and more is planned in the future. By far and large, swimming has proven to be the outstanding recreation for all corpsmen.



Corpsmen and staff instructor grading a baseball field.

# SECTION 9

## APPENDICES TO THE REPORT

### OF THE DEPARTMENT OF LAND AND NATURAL RESOURCES

1966-1967

Containing statistical data and other information relating to the operations and accomplishments of Staff Offices and Operating Divisions of the Dept.

## PERSONNEL DIVISION

**Table 1. SUMMARY OF PERSONNEL TRANSACTIONS—July 1, 1965 to June 30, 1967**

Accessions .....	88	Repricing—Change in salary range	4
New hire—permanent	33	Temporary assignment	24
New hire—temporary	55	Leave Without Pay (Maternity)	3
		Leave Without Pay (Others)	8
		Temporary promotion	10
Separation .....	65	Extension of Temporary Promotion	3
Resignation and transfer	30	Limited Term Appointment to	
(Permanent Employees)		Permanent Positions	4
Resignation and Termination of	28	Inter-agency transfer	3
temporary service (Temporary		Extension of temporary services	48
Employees)			
Retirement	5		
Dismissal	2		
		Job Corps Center	
Other Personnel Actions .....	148	New Hires (Exempt Appointment)	70
(Excludes pay increment changes)		Resignations	41
Promotion	28	Reassignment	18
Reallocation	13	Emergency Appointment	1
		Limited Term Appointment	1

**Table 2. FULL-TIME PERSONNEL EMPLOYED BY THE DEPARTMENT, BY DIVISIONS AND ISLANDS, AS OF JUNE 30, 1967**

Divisions	June 30, 1966	June 30, 1967					Total
		Hawaii	Oahu	Kauai	Maui	Molokai Lanai	
Departmental Administration and Staff Offices.....	27	....	24	1	....	....	25
Conveyances .....	34	....	40	....	....	....	40
Fish and Game Division.....	49	12	27	3	4	4	50
Forestry .....	76	33	17	14	12	2	78
Lang Management .....	27	2	17	2	2	....	23
State Parks .....	73	17	18	36	6	....	77
Water and Land Development.....	53	5	41	1	....	2	49
Hawaii Job Corps Center.....	48	9	55	10	....	....	74
NYC Program .....	1	....	1	....	....	....	1
TOTAL .....	388	78	240	67	24	8	417

(Excludes Student Helpers employed June-August 1966)

## DIVISION OF CONVEYANCES

**Table 1. NUMBER OF DEEDS FILED AND RECORDED, APPROXIMATE VALUE OF LAND CONVEYED AND TOTAL FILING AND RECORDING FEES RECEIVED BY THE BUREAU OF CONVEYANCES FROM 1957 TO 1967.**

Fiscal Year	Number of Deeds Filed and Recorded	Approx. Value of Land Conveyed	Total Filing and Recording Fees Received
1957.....	8,423	\$ 58,049,500.00	\$186,128.15
1958.....	8,364	63,845,500.00	210,336.90
1959.....	9,440	112,377,000.00	265,461.80
1960.....	10,077	121,464,000.00	287,836.45
1961.....	9,481	119,661,400.00	267,664.05
1962.....	9,045	109,942,500.00	276,640.40
1963.....	11,061	101,987,000.00	314,485.90
1964.....	11,680	102,232,000.00	357,938.40
1965.....	12,175	101,482,100.00	408,619.55
1966.....	12,799	133,301,000.00	412,919.30
1967.....	11,643	218,966,000.00	341,266.65

**Table 2. DOCUMENTS RECORDED AND FILED AND LAND COURT CERTIFICATES OF TITLE ISSUED BY THE BUREAU OF CONVEYANCES FROM 1957 TO 1967.**

Fiscal Year	Documents Recorded and Filed			Land Court Certificates of Title Issues
	Total	Regular System	Land Court System	
1957.....	37,500	24,265	13,235	3,270
1958.....	40,536	26,132	14,404	3,293
1959.....	50,875	29,422	21,453	4,235
1960.....	52,243	32,455	19,788	4,270
1961.....	48,529	32,039	16,490	3,817
1962.....	52,013	35,416	16,597	3,524
1963.....	58,803	40,211	18,592	4,619
1964.....	67,004	42,273	24,731	5,884
1965.....	76,033	47,190	28,843	5,698
1966.....	77,011	46,640	30,371	6,000
1967.....	67,690	42,834	24,856	5,549

**Table 3. RECEIPTS AND DISBURSEMENTS OF THE BUREAU OF CONVEYANCES FROM 1957 TO 1967**

Fiscal Year Ending June 30	Receipts			Disbursements		
	Total	Regular System	Land Court System	Total	Regular System	Land Court System
1957.....	\$ 188,092.10	\$ 139,249.70	\$ 48,842.40	\$ 178,565.71	\$ 107,905.61	\$ 70,660.10
1958.....	211,793.35	144,281.20	67,512.15	199,646.03	119,547.44	80,098.59
1959.....	267,143.20	170,809.65	96,333.55	201,031.28	118,092.07	82,939.21
1960.....	290,061.13	197,467.68	92,593.45	229,428.72	140,430.33	88,998.39
1961.....	270,033.95	190,340.40	79,693.55	240,162.33	151,859.96	88,302.37
1962.....	279,283.70	202,179.05	77,104.65	241,078.16	147,697.94	93,380.22
1963.....	317,092.90	226,325.50	90,767.40	257,510.97	155,804.07	101,706.90
1964.....	360,775.00	241,327.70	119,447.30	236,623.99	149,042.46	87,581.53
1965.....	412,761.75	285,556.95	127,204.80	208,090.75	109,908.77	98,181.98
1966.....	417,023.20	282,555.30	134,467.90	244,667.91	133,111.94	111,555.97
1967.....	346,800.75	225,594.85	121,205.90	317,808.00	168,438.24	149,369.76
10 yr. Total.....	\$3,360,861.03	\$2,305,687.98	\$1,055,173.05	\$2,481,473.76	\$1,466,502.53	\$1,014,961.23

**Table 4. VALUE OF PROPERTY TRANSFERS IN THE STATE OF HAWAII, BY COUNTIES, 1958-67\***

Year <sup>b</sup>	Maui		Honolulu		Hawaii		Kauai		State of Hawaii
	% of State	Amount	% of State	Amount	% of State	Amount	% of State	Amount	
1967.....	4.94	\$10,825,300	83.26	\$182,315,500	8.44	\$18,469,200	3.36	\$7,356,000	\$218,966,000
1966.....	6.13	8,173,500	81.38	108,486,500	9.77	13,029,500	2.71	3,611,500	133,301,000
1965.....	5.56	5,647,000	78.93	80,103,200	12.54	12,722,400	2.97	3,009,500	101,482,100
1964.....	7.63	7,802,500	83.37	85,231,235	7.75	7,923,200	1.25	1,275,100	102,240,035
1963.....	3.50	3,569,500	81.00	82,604,000	14.21	14,494,000	1.29	1,319,500	101,987,000
1962.....	2.46	2,719,500	87.96	97,231,500	8.55	9,452,000	1.03	1,139,500	110,542,500
1961.....	5.07	6,063,700	86.64	103,683,500	6.99	8,362,200	1.30	1,552,000	119,661,400
1960.....	2.50	3,036,500	90.06	109,392,000	6.45	7,835,000	0.99	1,200,500	121,464,000
1959.....	1.45	1,632,000	91.95	103,324,000	5.32	5,977,000	1.28	1,444,000	112,377,000
1958.....	3.67	2,342,000	88.94	56,781,000	4.91	3,136,000	2.48	1,586,500	63,845,500

\*Includes only sales of property. Does not include bequests, gifts, etc.

<sup>b</sup>Fiscal years ending June 30.

\*Includes deeds, leases, agreements of sale and other land transfer instruments pursuant to Act 10/1966.

Source: State of Hawaii, Department of Land and Natural Resources, Division of Conveyances.

Report Prepared by: Economic Research Center, University of Hawaii

## DIVISION OF FISH AND GAME

**Table 1. FRESHWATER GAME FISHING LICENSE AND HUNTING LICENSE STATISTICS, 1956-57 to 1966-67**

Years ending June 30	Freshwater Game Fishing		Hunting	
	Number Issued	Collections (dollars)	Number Issued	Collections (dollars)
1956-1957.....	2,595	5,402.41	5,179	24,942.25
1957-1958.....	3,320	7,191.39	5,290	25,738.99
1958-1959.....	2,383	4,885.61	5,222	25,094.23
1959-1960.....	1,682	3,638.23	5,290	25,564.25
1960-1961.....	3,014	6,339.94	6,214	30,202.25
1961-1962.....	4,209	8,824.01	6,924	33,897.72
1962-1963.....	4,264	8,983.57	7,095	34,441.65
1963-1964.....	5,269	11,225.75	7,766	38,180.00
1964-1965.....	4,357	9,385.87	7,613	37,228.57
1965-1966.....	3,743	11,932.48	6,903	50,275.13
1966-1967.....	3,424	10,866.75	7,142	52,786.70

**Table 2. COMMERCIAL FISHING LICENSES: 1966-67**

Kind of License	Number	Collections (dollars)
Commercial Fishing—Resident.....	789	\$ 7,890.00
Commercial Fishing—Non-resident.....	12	240.00
Commercial Fishing—Duplicate license	2	1.00
Power Boat permit.....	382	2,874.25
Row Boat and Sail Boat Permit.....	15	15.00
Boat Plates (pair).....	88	290.40
Total .....	1,136	\$11,310.65

**Table 3. MISCELLANEOUS FISHING LICENSES, PERMITS AND SALES: 1966-67**

Type	Number	Amount
Mullet License .....	45	\$ 200.00
Lobster License .....	7	7.00
Commercial Bait Permit.....	45	45.00
Clam License .....	....	....
Sale of Confiscated Fishing Gear.....	3	66.00
Duplicate Freshwater Game Fishing License .....	23	10.98
Total .....	123	\$ 328.98

**Table 4. COLLECTIONS—ALL SOURCES: 1962-63 to 1966-67**

Years ending June 30	All Collections	Commercial Fishing	Freshwater Game Fishing	Hunting	Miscellaneous Licenses, Permits and Other Income
1966-67.....	\$76,555.94	\$11,310.65	\$10,866.75	\$52,786.70	\$ 1,591.84
1965-66.....	78,735.43	9,937.00	11,932.48	50,275.13	6,590.82
1964-65.....	60,903.57	10,078.00	9,385.87	37,228.57	4,211.13
1963-64.....	63,605.81	11,223.25	11,225.75	38,180.00	2,976.81
1962-63.....	68,128.14	11,057.90	8,983.57	34,441.65	13,645.02

**Table 5. FRESHWATER GAME FISHING LICENSES: 1966-67**

County Where Issued	Total		Resident		Juvenile		Others	
	No.	Amount (dollars)	No.	Amount (dollars)	No.	Amount (dollars)	No.	(dollars) Amount
The State.....	3,424	\$10,866.75	2,728	\$ 9,738.61	657	\$ 945.91	39*	\$ 182.23
Hawaii .....	297	900.20	208	765.21	88	127.86	1	7.13
Maui .....	15	38.54	8	28.50	7	10.04		
Oahu .....	2,609	8,478.49	2,184	7,773.22	398	573.10	27	132.17
Kauai .....	503	1,449.52	328	1,171.68	164	234.91	11	42.93

\*11 Non-resident License, 28 Tourist Licenses.

**Table 6. HUNTING LICENSES: 1966-67**

County Where Issued	Number of Licenses			Collection (dollars)		
	Total	Resident	Non- resident	Total	Resident	Non- resident
The State .....	7,142	6,949	193	\$52,786.70	\$50,010.95	\$2,775.75
Hawaii .....	1,720	1,575	145	13,508.61	11,434.86	2,073.75
Maui .....	1,627	1,611	16	11,772.11	11,543.36	228.75
Oahu .....	2,912	2,883	29	21,144.19	20,715.19	429.00
Kauai .....	883	880	3	6,361.79	6,317.54	44.25

**Table 7. MISCELLANEOUS GAME LICENSES, SALES, DONATIONS AND RENTAL: 1966-67**

Type	Number	Amount (dollars)
Game Bird Farm License.....	54	\$ 54.00
Sale of publication "Game Birds in Hawaii".....	86	34.25
Duplicate Hunting License.....	301	149.11
Sale of Confiscated legal hunting gear.....	22	692.50
Donation (Nene).....		25.00
Rental of Hunting Cabins—Hawaii.....	154	308.00
Total .....	617	\$1,262.86

**Table 8. MISCELLANEOUS PERMITS (NO CHARGE): 1966-67**

Type	Number
Permit for destruction of wild birds injurious to crops.....	9
Scientific collecting permit.....	17
Field Trial permit (Hunting) .....	7
Permit for entry on bird sanctuaries.....	6
Aquarium fish permit .....	15

**Table 9. FEDERAL AID FUNDS**

Type	Amount (dollars)
Pittman-Robertson Federal Aid in Wildlife Restoration Fund.....	\$ 87,403.64
Dingell-Johnson Federal Aid in Fish Restoration Fund.....	40,143.05
Nene Restoration Project Fund.....	15,061.20
Hawaiian Islands National Wildlife Refuge Fund.....	2,675.74
Sub Total .....	145,283.63
Commercial Fisheries, Research and Development PL 88-309.....	31,918.78
Total .....	\$177,202.41

**Table 10. COMMERCIAL FISH LANDINGS BY ISLAND, STATE OF HAWAII—FISCAL YEAR JULY, 1966 - JUNE, 1967**

Island	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Hawaii .....	1,347,385	\$ 338,289			1,347,385	\$ 338,289
Maui .....	826,762	161,559			826,762	161,559
Lanai .....	9,548	3,637			9,548	3,637
Molokai .....	25,890	14,860	1,348	\$1,333	27,238	16,193
Oahu .....	9,838,634	2,522,409	12,528	8,414	9,851,162	2,530,823
Kauai .....	292,563	97,065			292,563	97,065
TOTAL .....	12,340,782	\$3,137,819	13,876	\$9,747	12,354,658	\$3,147,566

**Table 11. COMMERCIAL FISH LANDINGS BY MONTH, STATE OF HAWAII—FISCAL YEAR JULY, 1966 - JUNE, 1967**

Month	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
<b>1966</b>						
July .....	2,077,510	\$ 361,299	1,106	\$ 890	2,078,616	\$ 362,189
August .....	1,227,079	271,942	1,143	676	1,228,222	272,618
September .....	1,211,321	271,328	885	542	1,212,206	271,870
October .....	1,152,352	266,456	1,329	823	1,153,681	267,279
November .....	784,238	213,207	1,200	843	785,438	214,050
December .....	855,839	312,413	2,123	1,691	857,962	314,104
<b>1967</b>						
January .....	366,850	163,591	1,806	1,344	368,656	164,935
February .....	388,866	187,345	1,249	804	390,115	188,149
March .....	813,931	257,865	922	639	814,853	258,504
April .....	671,462	217,662	746	478	672,208	218,140
May .....	986,204	255,225	763	548	986,967	255,773
June .....	1,805,130	359,486	604	469	1,805,734	359,955
TOTAL .....	12,340,782	\$3,137,819	13,876	\$9,747	12,354,658	\$3,147,566

**Table 12. COMMERCIAL FISH CATCH BY SPECIES, STATE OF HAWAII — FISCAL YEAR JULY, 1966 - JUNE, 1967**

Sea Catch by Species					
Species	Pounds	Value	Species	Pounds	Value
Aku (Skipjack)	8,421,188	\$1,259,632	Pualu	12,790	\$ 1,856
Ahi (Yellowfin)	571,482	252,551	Puhi (eel)	1,981	116
Ahipalaha (Albacore)	20,962	6,403	Puhi (white eel)	2,065	274
Ahi (Bigeye)	772,440	536,840	Uhu	7,135	2,129
Kawakawa	44,999	5,699	Ukikiki (Gindai)	796	375
Swordfishes (Misc.)	24	1	Uouoa	87	54
Stripe Marlin	335,533	116,084	Uu (Menpachi)	13,489	8,829
Pacific Blue Marlin*	137,691	40,432	Weke	45,854	15,429
Black Marlin**	7,720	2,832	Malu	1,348	853
Broadbill	13,795	2,863	Saba	197	61
A'u Iepe (Sailfish)	20,151	3,674	Crab (Papai—Misc.)	6,472	2,788
Mahimahi	81,155	44,188	Crab (Kona)	17,444	14,345
Ono	31,747	6,769	Crab (Kuahonu)	4,489	3,668
Hapuupuu	30,882	13,459	Crab (Moala)	2,574	1,141
Kahala	84,152	24,760	Crab (Samoan)	86	77
Kalekale	9,604	5,132	Opae (Shrimp)	416	922
Omilu	1,851	998	Ula (Lobster)	5,320	4,528
Opakapaka	126,847	62,415	Ulapapapa	30	23
Uku	64,332	27,223	Hee (Octopus)	7,316	4,552
Ulaula (Ehu)	18,528	14,402	Muhee (True Squid)	7,072	3,070
Ulaula Koa (Onaga)	68,513	67,730	Opihi (Limpet)	36,000	23,128
Ulua	86,843	43,838	Honu (Turtle)	6,090	1,608
Weke-ula	18,287	10,983	Miscellaneous	32,524	9,505
Aawa	1,233	141			
Aholehole	2,565	1,610	<b>TOTAL</b>	<b>12,340,782</b>	<b>\$3,137,819</b>
Akule	495,284	226,980	<b>Pond Catch by Species</b>		
Hahalalu	218,166	71,922	Species	Pounds	Value
Amaama (Mullet)	21,294	20,312	Ulua	681	\$ 640
Awa	10,374	3,033	Aholehole	53	21
Aweoweo	6,478	2,036	Amaama (Mullet)	2,857	2,618
Humuhumu (Hage)	1,651	461	Awa	4,657	2,792
Kaku (Barracuda)	4,106	816	Awaawa	555	198
Kala	35,453	4,271	Kaku	225	175
Kawelea	6,384	2,495	Moi	409	412
Kumu	9,602	9,934	Oio	2,299	1,118
Laenihi (Nabeta)	2,939	1,995	Crab (Papai—Misc.)	29	19
Lehi	2,376	871	Crab (Kuahonu)	414	291
Maomao (Mamo)	2,095	716	Crab (Moala)	15	5
Manini	8,767	4,254	Crab (Samoan)	1,009	734
Moano	12,329	7,220	Opae (Shrimp)	61	482
Moi	19,836	15,597	Miscellaneous	612	242
Moelua	5,637	3,201			
Nenue	11,908	3,802	<b>TOTAL</b>	<b>13,876</b>	<b>\$ 9,747</b>
Nohu (Hogo)	1,567	791			
Oio	20,213	5,185	<b>GRAND TOTAL</b>	<b>12,354,658</b>	<b>\$3,147,566</b>
Opelu	246,264	99,295			
Palani	13,960	2,642			

\**Makaira ampla* (Called black marlin by Haw'n Fish and Game Div. prior to July, 1962).

\*\**Istiompax marlina* (Called silver marlin by Haw'n Fish & Game Div. prior to July, 1962).

**Table 13. FISHING AND HUNTING VIOLATIONS 1966-1967**

Type of Violations	Number	Type of Violations	Number
<b>FISHING VIOLATIONS</b>		<b>HUNTING VIOLATIONS</b>	
Taking and possession of lobster with eggs, under the legal weight, speared, and during closed season.....	9	Hunting without license.....	22
Taking and possession of crabs with eggs.....	2	Hunting without permit.....	3
Fishing with or possession of illegal mesh net/throw net	3	Hunting Axis deer at night.....	1
Taking and possession of clams during closed season.....	2	Unlawful carriage and possession of firearms.....	6
Taking and possession of oysters during closed season.....	10	Failure to display hunting license while hunting.....	1
Taking of sea mullet during closed season.....	6	Landing on bird sanctuary island without permit.....	2
Engaging in commercial fishing without license.....	4	Failure to check in and out at checking station.....	5
Fishing with net in Waikiki Reclamation canal.....	3	Taking and possession of game birds and mammals during closed season .....	5
Engaging in commercial bait fishing without permit.....	2	Hunting game birds on non-hunting days.....	5
Taking and possession of undersize squid (hee).....	2		
<b>Total Fishing Violations.....</b>	<b>43</b>	<b>Total Hunting Violations.....</b>	<b>50</b>
		<b>TOTAL FISHING AND HUNTING VIOLATIONS.....</b>	<b>93</b>

**Table 14. ARRESTS AND DISPOSITIONS 1966-1967**

Subject	The State	Hawaii County	Honolulu County	Kauai County	Maui County
Arrests .....	72	6	43	10	13
Number of Charges .....	94	6	46	24	18
Convictions .....	72	4	35*	18	15
Bail Forfeitures .....	8	..	7	1	..
Released to Juvenile Authorities.....	8	1	1	5	1*
Released to Military Authorities.....	2	..	2	..	..
Cases Pending .....	4	..	2	..	2
Fines .....	27	1	11	9	6
Suspended Fines .....	12	..	11	..	1
Jail Sentence .....	1	1	..	..	..
Suspended Sentences .....	1	1	..	..	..
Split Fines, (Fines, Suspended Fines and Suspended Sentences) .....	31	2	12	9	8
Nolle Prosequi .....	3	1	2	..	..

\*Includes disposition of three (3) pending cases from 1965-66

**Table 15. INCOME FROM ARRESTS 1966-1967**

Area	Fines	Bail Forfeitures	Suspended Fines
The State .....	\$1,300	\$200	\$1,345
Hawaii County .....	85	..	40
Honolulu County .....	620	175	1,140
Kauai County .....	240	..	145
Maui County .....	355	25	20

## DIVISION OF FORESTRY

**Table 1. FOREST INCOME FISCAL YEAR 1966-67**

Source	Kauai	Oahu	Molokai	Maui	Hawaii	Kamuela	Total
Nursery Sales .....	\$42.50	\$ 96.00	..	..	\$ 216.20	\$1,450.63	\$ 1,805.33
Sale of Products:							
Timber Stumpage .....	..	..	..	..	7,467.65	..	7,467.65
Tree Fern Stumpage .....	..	..	..	..	5,026.94	..	5,026.94
Other .....	..	1,762.89	..	48.56	896.05	..	2,707.50
Rentals:							
Cabins and Barracks .....	..	..	..	..	4.00	..	4.00
Sale of Equipment.....	22.50	..	..	..	..	..	22.50
Total: Non-Federal .....	\$65.00	\$1,858.89	..	\$48.56	\$13,610.84	\$1,450.63	\$ 17,033.92
Federal Cooperation:							
Clarke-McNary, Sec. 2, Forest Fire.....	..	..	..	..	..	..	\$ 42,091.76
Clarke-McNary, Sec. 4, Forest Planting.....	..	..	..	..	..	..	3,000.00
Title IV Program, Reforestation.....	..	..	..	..	..	..	30,000.00
Agricultural Conservation Program.....	..	..	..	..	..	..	2,500.00
Cooperative Forest Management.....	..	..	..	..	..	..	14,695.08
Total: Federal Sources.....	..	..	..	..	..	..	\$ 92,286.84
GRAND TOTAL .....	..	..	..	..	..	..	\$109,320.76

**Table 2. REFORESTATION PROGRAM IN FOREST RESERVES FISCAL YEAR 1966-67**

Island and Type of Organization	Clearing Area (Acres)	Planting Area (Acres)	Trees (No.)	Replanting Area (Acres)	Trees (No.)	Road Construction (Miles)
Kauai:						
Division of Forestry.....	63	260	93,888	283	70,857	3.25
Private Contractors.....	213	....	....	....	....	3.50
Total .....	276	260	93,888	283	70,857	6.75
Oahu:						
Division of Forestry.....	39	49	20,870	1	255	0
Boy Scouts .....	....	7	3,000	....	....	....
Total .....	39	56	23,870	1	255	0
Molokai:						
Division of Forestry.....	9	12	7,378	5	3,500	0.50
Boys Camp <sup>1</sup> .....	....	....	....	5	2,500	....
Total .....	9	12	7,378	10	6,000	0.50
Maui:						
Division of Forestry.....	89	331	144,000	204	76,300	0
Private Contractors.....	284	....	....	....	....	....
Total .....	373	331	144,000	204	76,300	0
Hawaii:						
Division of Forestry.....	5	1,745	647,900	325	73,000	0.10
Private Contractors.....	1,734	....	....	....	....	20.75
Total .....	1,739	1,745	647,900	325	73,000	20.85
State:						
Division of Forestry.....	205	2,397	914,036	818	223,912	3.85
Private Contractors.....	2,231	....	....	....	....	24.25
Boys Camp .....	....	....	....	5	2,500	....
Boy Scouts .....	....	7	3,000	....	....	....
Total State .....	2,436	2,404	917,036	823	226,412	28.10

**Table 3. ACRES PLANTED BY ISLANDS AND BY ORGANIZATIONAL UNITS FISCAL YEARS 1961-1967 INCLUSIVE**

Island and Organizational Units	1961	1962	1963	1964	1965	1966	1967	Total
Kauai:								
Division of Forestry.....	188	81	394	234	179	303	260	1,639
Total .....	188	81	394	234	179	303	260	1,639
Oahu:								
Division of Forestry.....	209	17	77	7	27	0	49	386
Boy Scouts.....	0	0	0	0	0	0	7	7
Total .....	209	17	77	7	27	0	56	393
Molokai:								
Division of Forestry.....	84	149	152	25	5	0	12	427
Boys Camp.....	20	60	135	27	13	40	0	295
Total .....	104	209	287	52	18	40	12	722
Maui:								
Division of Forestry.....	169	312	552	464	9	505	331	2,342
Olinda Honor Camp <sup>2</sup> .....	63	0	0	0	0	0	0	63
Total .....	232	312	552	464	9	505	331	2,405
Hawaii:								
Division of Forestry.....	303	145	1,156	1,151	820	1,705	1,745	7,025
Kulani Honor Camp <sup>2</sup> .....	336	200	44	0	198	0	0	778
Total .....	639	345	1,200	1,151	1,018	1,705	1,745	7,803
State:								
Division of Forestry.....	953	704	2,331	1,881	1,040	2,513	2,397	11,819
Institutional Camps.....	419	260	179	27	211	40	0	1,136
Boy Scouts.....	0	0	0	0	0	0	7	7
Total .....	1,372	964	2,510	1,908	1,251	2,553	2,404	12,962

<sup>1</sup>Phased out in December, 1966<sup>2</sup>Work activity shifted to doing their own project

**Table 4. NUMBER OF TREES PLANTED BY SPECIES AND ISLAND FISCAL YEAR 1966-67**

Species	Kauai <sup>1</sup>	Oahu <sup>2</sup>	Molokai <sup>3</sup>	Maui <sup>4</sup>	Hawaii <sup>5</sup>	State
Australian redcedar.....		6,000			466,800	472,800
Queensland maple.....	30				450	480
Nepal alder.....	55				8,000	8,055
Saligna.....	57,470	8,170		13,000	88,350	166,990
Loblolly pine.....	5,450		1,911			7,361
Slash pine.....	21,800	3,000	5,467			30,267
Monterey pine.....				27,250		27,250
Cluster pine.....				102,150		102,150
Monkeypod.....		200				200
Blackwood acacia.....					8,000	8,000
Robusta.....					61,300	61,300
Pilularis.....	4,695	2,040			8,000	14,735
Miscellaneous <sup>6</sup> .....	4,388	4,460		1,600	7,000	17,448
Total .....	93,888	23,870	7,378	144,000	647,900	917,036

<sup>1</sup>Lihue-Koioa Forest Reserve 104 acres; Puu Ka Pele Forest Reserve 156 acres.

<sup>2</sup>Honolulu Forest Reserve 2 acres; Kawaihoa Forest Reserve 25 acres; Waianae-Kai Forest Reserve 29 acres.

<sup>3</sup>Molokai Forest Reserve 12 acres.

<sup>4</sup>Kula Forest Reserve 302 acres; Koolau Forest Reserve 29 acres.

<sup>5</sup>Upper Waiakea Forest Reserve 720 acres; Olaa Forest Reserve 709 acres; Hilo Forest Reserve 9 acres; Waiakea Forest Reserve 307 acres.

<sup>6</sup>Includes Redwood, Grandis, Deglupta, Gold Tree, Norfolk-Island-Pine, Lemon Eucalyptus.

**Table 5. NURSERY DISTRIBUTION**

Fiscal Year 1966-67	Central Nursery				Kauai				Oahu				Maui				Hilo				Total	
	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	Wind-break	Timber & others	GRAND TOTAL		
To Federal Lands.....																				210		
State Forest Lands.....	976,084	2,310	32,031												100					210	210	
Other State Lands.....	3,773	4,840	317												139,436				1,174,251	2,310	1,176,561	
Towns, Cities & Public Schools.....	800		421												2,750				6,888	4,840	11,728	
Persons, Associations and Private Schools.....	26,771	53,285	2,201												15,000				1,221	53,285	97,257	
Forest Reserves—Not State owned.....	116,500		13,000																43,972	129,500	129,500	
Plantations, Ranches, Water & Power Co. — Not in Forest Reserve.....	27,250	8,800	4,700																129,500		46,922	
Total Timber and Windbreak Trees.....	1,151,178	69,235	52,780												34,250				1,394,164	69,235	1,463,399	

**Table 6. FOREST FIRES**

Geographic Area	Date	Acres Burned	Geographic Area	Date	Acres Burned
<b>Fiscal Year 1966-67</b>					
The State (18 Fires)		4,777.8	Hawaii (7 Fires)		
Oahu (7 Fires)			Kupahua Hmst., outside For. Res.	7/ 6/66	20.0
Hon. For. Res., Maunalani Hts.	7/ 5/66	2.0	Kaueleau, Outside For. Res.	7/12/66	0.2
Hon. For. Res., Ft. Shafter Mil. Res.	7/15/66	103.0	Naalehu Dairy, Outside For. Res.	7/31/66	1.0
Kealia, Outside For. Res.	8/30/66	100.0	Malama-Ki For. Res.,		
Hon. For. Res., Tantalus	9/22/66	0.3	MacKenzie Park	8/14/66	0.1
Kawailoa For. Res., Poamoho	12/11/66	6.0	Nanawale For. Res., Kaniahiku	8/15/66	5.0
Wahiawa Hts., Outside For. Res.	6/19/67	7.0	Keaukaha Military Res.,		
Kawailoa For. Res., Poamoho	6/23/67	25.0	Outside For. Res.	1/26/67	0.1
			Keaau, Outside For. Res.	5/22/67	1,300.0
		243.3			1,326.4
			Maui (2 Fires)		
			Kealahou, Outside For. Res.	1/ 3/67	0.1
			Kamaole, Outside For. Res.	6/11/67	9.0
					9.1
			Molokai (1 Fire)		
			Puaahala, Outside For Res.	9/ 7/66	249.0
			Kauai (1 Fire)		
			Hanalei For. Res., Hanalei	6/18/67	2,950.0

**Table 7. ROADS, TRAILS, AND FENCES**

Island	Construction (In Feet)			Maintenance (In Feet)		
	Roads	Trails	Fences	Roads	Trails	Fences
<b>Fiscal Year 1966-67</b>						
Kauai	35,640	7,920	1,856	75,240	298,320	....
Oahu	2,640	....	....	55,440	127,248	2,000
Molokai	2,640	....	....	66,528	13,200	8,076
Maui	23,760	....	1,584	150,480	13,200	29,518
Hawaii	114,048	686	8,501	558,096	2,640	16,655
F. Y. 1966-67 Total:						
Feet	176,088	8,606	11,941	905,784	454,608	56,249
Miles	33.35	1.63	2.26	171.55	86.10	10.65

**Table 8. SURRENDER AGREEMENTS FOR PRIVATE LANDS IN CONSERVATION DISTRICTS, JUNE 30, 1967**

Land	Forest Reserve	Owners	Date of Expiration	Term	Area (Acres)
Kauai:					
Wainiha	Halelea	McBryde Sugar Company	2-10-1968	20	10,120.00
					10,120.00
Oahu:					
Honouliuli	Honouliuli	James Campbell Estate	2-15-1977	20	4,910.879
Pukaomaomao	Honolulu	Bishop Estate	6-12-1968	20	183.948
					5,094.825
Molokai:					
Naiwa 3	Molokai	Molokai Ranch Company	7- 3-2001	50	53.00
Manowainui	Molokai	Molokai Ranch Company	7- 3-2001	50	50.00
Kaunakakai	Molokai	Molokai Ranch Company	7- 3-2001	50	965.00
Makakupaia	Molokai	Molokai Ranch Company	7- 3-2001	50	654.00
Kawela	Molokai	Molokai Ranch Company	7- 3-2001	50	3,850.00
					5,572.00
Maui:					
Kipahulu	Kipahulu	Ulupalakua Ranch Company	12-31-1978	20	3,519.00
					3,519.00
Hawaii:					
Kukuau I	Hilo	A. A. Richardson Estate	12-31-1978	20	2,979.00
					2,979.00
GRAND TOTAL					27,284.827

**Table 9. FOREST AND WATER RESERVE WITHIN CONSERVATION DISTRICT, JUNE 30, 1967**  
(In acres. Before July 10, 1961, these areas comprised the "Forest and Water Reserves.")

Island and Reserve	All Agencies	State Lands	Hawaiian Home Lands	City & County Lands	Federal Lands	Private Lands
All islands .....	1,196,040.005	808,480.007	25,100.23	3,034.49	10,722.37	348,702.908
KAUAI .....	163,128.38	83,133.27	9,870.00	1,158.50	....	68,966.61
Halelea .....	39,720.00	14,147.00	....	....	....	25,573.00
Haupu .....	3,230.00	....	....	....	....	3,230.00
Kalepa .....	901.41	715.91	....	....	....	185.50
Kealia .....	8,559.28	6,089.28	....	....	....	2,470.00
Lihue-Koloa .....	27,186.29	10,941.08	....	....	....	16,245.21
Molokaa .....	4,564.00	928.00	2,270.00	....	....	1,366.00
Na Pali-Kona .....	61,425.00	41,528.10	....	....	....	19,896.90
Nonou .....	818.00	818.00	....	....	....	....
Papapahohola .....	54.40	....	....	54.40	....	....
Puu Ka Pele .....	15,565.90	7,965.90	7,600.00	....	....	....
Puu Ka Pele Park .....	1,104.10	....	....	1,104.10	....	....
OAHU .....	123,029.318	30,630.95	188.00	1,725.42	10,722.37	79,762.578
Ewa .....	27,930.24	5,798.10	....	....	3,895.00	18,237.14
Hauula .....	9,493.76	1,443.76	....	....	....	8,050.00
Honolulu .....	20,450.348	7,497.97	....	1,725.42	335.92	10,891.038
Honouliuli .....	4,936.00	....	....	....	34.31	4,901.69
Kahuku .....	5,833.00	....	....	....	....	5,833.00
Kaipapau .....	1,173.00	897.00	....	....	....	276.00
Kaneohe .....	1,019.97	19.64	....	....	....	1,000.33
Kawailoa .....	18,696.00	....	....	....	....	18,696.00
Kuaokala .....	385.00	385.00	....	....	....	....
Kuliouou .....	214.00	214.00	....	....	....	....
Makua-Keaau .....	2,513.09	2,408.09	....	....	....	105.00
Mokuleia .....	5,215.00	5,215.00	....	....	....	....
Nanakuli .....	788.00	595.94	188.00	....	4.06	....
Pupukea .....	837.10	837.10	....	....	....	....
Round Top .....	186.12	186.12	....	....	....	....
Schofield Barracks .....	2,707.40	....	....	....	2,707.40	....
Luahale <sup>1</sup> .....	3,710.00	....	....	....	3,710.00	....
Waiahole .....	8,633.72	1,683.12	....	....	28.80	6,921.80
Waianae-Kai .....	5,014.57	2,043.99	....	....	....	2,970.58
Waimanalo .....	3,293.00	1,406.12	....	....	6.88	1,880.00
MOLOKAI: Molokai .....	46,444.928	20,222.588	610.00	5.34	....	25,607.00
LANAI: Lanai .....	6,150.00	....	....	....	....	6,150.00
MAUI .....	158,766.18	93,321.67	8,717.00	145.23	....	56,582.28
Hana .....	15,670.90	13,672.70	....	....	....	1,998.20
Kahikinui .....	15,828.80	4,466.80	8,717.00	....	....	2,645.00
Kipahulu .....	11,767.62	7,232.60	....	....	....	4,535.02
Koolau .....	60,216.50	39,163.44	....	....	....	21,053.06
Kula .....	5,938.50	4,932.50	....	....	....	1,006.00
Makawao .....	2,093.00	2,093.00	....	....	....	....
Waihou Spring .....	84.00	74.00	....	....	....	10.00
West Maui .....	47,166.86	21,686.63	....	145.23	....	25,335.00
HAWAII .....	698,521.199	581,171.529	5,715.23	....	....	111,634.44
Hamakua .....	11,682.79	3,555.00	1,077.88	....	....	7,049.91
Hauola .....	10.10	10.10	....	....	....	....
Hilo .....	119,748.54	64,514.94	....	....	....	55,233.60
Holualoa .....	135.00	....	....	....	....	135.00
Honaunau .....	10,028.00	....	....	....	....	10,028.00
Honuaula .....	1,345.80	1,312.00	....	....	....	33.80
Kahaluu .....	3,827.00	....	....	....	....	3,827.00
Kapapala .....	37,416.00	37,416.00	....	....	....	....
Kau .....	61,389.80	56,805.80	....	....	....	4,584.00
Kaupulehu .....	7,284.00	....	....	....	....	7,284.00
Keauohana .....	271.60	271.60	....	....	....	....
Kilauea .....	5,070.00	....	....	....	....	5,070.00
Kohala .....	47,889.75	31,712.90	87.35	....	....	16,089.50
Malama-Ki .....	1,441.293	1,441.293	....	....	....	....
Manaowaialee .....	2,329.00	1,609.00	....	....	....	720.00
Mauna Kea .....	87,400.108	82,600.008	4,550.00	....	....	250.10
Mauna Loa .....	160,468.73	160,468.73	....	....	....	....
Nanawale .....	2,567.668	2,567.668	....	....	....	....
North Kona Watershed .....	491.93	452.70	....	....	....	39.53
Olaa .....	16,032.857	16,032.857	....	....	....	....
Olaa Forest Park Reserve .....	543.616	543.616	....	....	....	....
Upper Olaa .....	2,897.017	2,897.017	....	....	....	....
Panaewa .....	1,214.355	1,214.355	....	....	....	....
Puna .....	25,738.00	25,738.00	....	....	....	....
South Kona .....	24,612.333	23,322.333	....	....	....	1,290.00
Waiakea .....	11,197.282	11,197.282	....	....	....	....
Upper Waiakea .....	55,488.33	55,488.33	....	....	....	....

<sup>1</sup>Under control of U.S. Navy

**Table 10. RESEARCH PUBLICATIONS FISCAL YEAR 1966-1967**

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## DIVISION OF LAND MANAGEMENT

**Table 1. GEOGRAPHIC STATISTICS FOR THE HAWAIIAN ARCHIPELAGO AND STATE OF HAWAII**

Island or group	Number of islands <sup>(1)</sup>	Area (square miles) <sup>(1)</sup>		Tidal shoreline (miles) <sup>(2)</sup>	Highest peak (feet) <sup>(2)</sup>
		Land	Water		
The Archipelago .....	124	6,417	9	(NA)	13,796
State of Hawaii .....	122	6,415	9	1,052	13,796
Midway Islands .....	2	2	....	(NA)	12
Hawaii Island .....	9	4,021	....	313	13,796
Maui Island .....	19	728	....	149	10,023
Kahoolawe Island .....	2	45	....	36	1,477
Lanai Island .....	11	141	....	52	3,370
Molokai Island .....	14	259	....	106	4,970
Oahu Island .....	35	595	7	209	4,040
Kauai Island .....	3	551	2	110	5,170
Niihau Island <sup>(3)</sup> .....	4	72	....	52	1,281
Leeward Islands .....	27	5	....	(NA)	910
In State of Hawaii <sup>(4)</sup> .....	25	3	....	25	910
Midway Islands .....	2	2	....	(NA)	12

(NA)—Not available.

<sup>(1)</sup>Median land area of the 124 islands is 3 acres. Data are from the Department of Land and Natural Resources. Department of Land and Natural Resources **Land Area of the Hawaiian Archipelago** (Memorandum B-5).

<sup>(2)</sup>From Department of Planning and Research, **Geographic Statistics for Hawaii** (Res. Rpt. 15, January 15, 1962).

<sup>(3)</sup>Includes Lehua and Kaula Islands

<sup>(4)</sup>Includes Nihoa Island, Necker Island, French Frigate Shoal, Gardner Pinnacles, Maro Reef, Laysan Island, Lisianski Island, Pearl and Hermes Reef, and Kure Island.

**Table 2. LAND OWNERSHIP OR TENURE, FOR HAWAII: As of June 30, 1966**

Ownership or Tenure		Area in Acres (Estimated)		Percentage
Total			4,105,600	100
FEDERAL <sup>(1)</sup>		142,962	424,084	10.4
Armed Forces				
Owned in Fee	34,922			
Ceded Lands	108,040			
National Parks	246,748			
Owned in Fee	196,411			
Ceded Lands	50,337			
Other Federal Agencies		34,374		
STATE <sup>(2)</sup>			1,590,532	38.7
Hawaiian Home Lands		100,485		
Public Lands and Other Agencies		1,490,047		
PRIVATE <sup>(3)</sup>			2,090,984	50.9
5,000 acres or more <sup>(4)</sup>		1,811,347		
Less than 5,000 acres <sup>(3)</sup>		279,637		

(1) Includes all lands owned by the U.S. Government, plus ceded lands held by the Dept. of Defense or National Park Service under executive order of the president or governor. From Hawaii Dept. of Land and Natural Resources Statistics on Federal Land Tenure in Hawaii, 1960-1962, Memorandum B-4, Updated.

(2) Excludes lands ceded to the U.S. Government under executive order of the president or governor, and public rights of way.

(3) Includes county lands acquired by purchase or gift from private owners, and all public rights of way. Computed as residual.

(4) From Hawaii Department of Planning and Research, Statistical Abstract of Hawaii, 1962, p. 43.

**Table 3. STATE-OWNED LAND—BY COUNTIES—As of JUNE 30, 1966**

Political Unit	Total Land Area (acres)	State-Owned Land (acres)	% State-Owned
STATE	4,105,600	1,590,532	38.7
County			
Honolulu	382,720	56,672	14.8
Maui and Kalawao	750,720	255,800	63.788
Hawaii	2,573,440	1,126,121	43.8
Kauai	398,720	151,939	39.9

**Table 4. OWNERSHIP OF AREA IN ACRES WITHIN CONSERVATION DISTRICT BY COUNTY, AUGUST 23, 1964**

Ownership	State Total	C&C of Honolulu	Maui County	Hawaii County	Kauai County
All Agencies	1,841,405	149,037	304,413	1,217,689	170,266
Private	613,871	97,215	148,932	303,936	63,788
State	915,466	34,909	111,250	671,180	98,127
Federal	262,433	9,305	37,288	213,585	2,255
Hawaiian Homes	42,841	836	6,936	28,986	6,083
Counties	6,794	6,772	7	2	13

**Table 5. OWNERSHIP OF AREA IN ACRES WITHIN "GENERAL USE" SUBZONE BY COUNTY, AUGUST 23, 1964.**

Ownership	State Total	C&C of Honolulu	Maui County	Hawaii County	Kauai County
All Agencies	1,722,993	133,600	256,150	1,166,744	166,499
Private	589,607	94,378	133,599	300,354	61,276
State	835,558	27,507	78,320	632,859	96,873
Federal	259,250	6,122	37,288	213,585	2,254
Hawaiian Homes	33,799	836	6,936	19,944	6,083
Counties	4,779	4,757	7	2	13

**Table 6. OWNERSHIP OF AREA IN ACRES WITHIN "RESTRICTED WATERSHED" SUBZONE BY COUNTY, AUGUST 23, 1964.**

Ownership	State Total	C&C of Honolulu	Maui County	Hawaii County	Kauai County
All Agencies	118,412	15,437	48,263	50,945	3,767
Private	24,264	2,836	15,334	3,582	2,512
State	79,908	7,402	32,929	38,322	1,255
Federal	3,183	3,183	----	----	----
Hawaiian Homes	9,041	----	----	9,041	----
Counties	2,016	2,016	----	----	----

# **PUBLIC TRUST FUND CEDED LAND PROCEEDS Land Management Program**

Receipts:	1965-66	1966-67
Rentals, Leased Public Lands.....	\$1,552,273	\$1,861,042
Rentals, Unleased Public Lands.....	334,840	281,307
Sale of Wood, Rock and Sand.....	70,976	92,013
License, Use of Government Water.....	268,792	217,199
License, Use of Government Land for Specific Purposes.....	17,148	47,576
Total Receipts .....	\$2,244,029	\$2,499,137
Expenditures:		
Transfers to Hawaiian Home Lands.....	501,299	585,416
Transfers to General Fund.....	1,742,732	1,913,721
Total Expenditures .....	\$2,244,029	\$2,499,137
Transfers to Hawaiian Home Lands:		
Loan Fund .....	\$280,498*	
Administration Fund.....	297,642	
Development Fund.....	7,276	
	\$585,416	

30% of sugar leases and water licenses.  
H.H. Lands rentals as appropriated by Legislature.  
H.H. Lands rentals over Legislative appropriations.  
\*New Maximum of \$7,500,000

## **GENERAL FUND REVENUES Land Management Program**

	1965-66	1966-67
Conveyance Tax .....		\$ 796
Fees, Copies of Public Documents .....	\$ 11,676	472
Fees, Issuance of Land Patents, etc. ....	455	9,948
Fees, Consents to Transfers, etc. ....	1,860	1,300
Fees, Surveying of Public Lands .....	6,305	4,645
Fees, Appraisals .....	50	100
Sale of Publications .....	69	22
Sales of Improvements on Expired Leases .....		
Sale of Equipment and Other Property .....	500	
Refunds of Prior Year Expenditures .....		
Cost of Managing Property Acquired for Highway Purposes .....	1,059	3,398
Sale of Wood, Rock or Sand .....	999	5,187
Indemnity for Damages to Insured Property.....	5,820	70
Interest on Delinquent Accounts .....		
Witness or Juror Fees .....		45
Total Receipts .....	\$ 29,138	\$ 25,983

## **SPECIAL LAND AND DEVELOPMENT FUND Land Management Program**

	1965-66	1966-67
Balance at the beginning:	\$4,457,430	\$4,361,528
Receipts:		
Interest on Deferred Payments.....	115,343	75,229
Sales of Public Lands.....	2,175,570	1,274,741
Reimbursable Expenditures .....	6,358	
Reimbursement of Improvements to Public Lands.....	10,903	19,547
Appraisal Fees Revolving Fund .....	10,000	10,000
Total Receipts .....	\$6,775,604	\$5,741,045
Expenditures:		
Land and Interest in Land .....		114,137
Structures and Permanent Improvements to Land .....	2,132,613	2,824,190
Transfers:		
Department of Social Services .....		132,500
Bond Fund Repayments .....	281,463	145,537
Total Expenditures .....	\$2,414,076	\$2,415,364
Balance at End .....	\$4,361,528	\$3,324,681

## **SUMMARY OF DISPOSITIONS, ALL ISLANDS—From July 1, 1966 - JUNE 30, 1967**

Counties	Executive Orders	Sale of Houselots in Fee*	Land Patent Grants*	Special Sale Agreements*	General Leases**	Revocable Permits**	Grand Totals
HAWAII: (1st Land District)							
Number .....	12	1	65	2	29	17	126
Area (acres) .....	77.163	.233	32.988	.375	4,037.394	15,826.424	19,974.577
Price* or Annual Rental** .....		\$ 5,100	\$351,320	\$ 6,364	\$ 45,294	\$ 9,510	\$ 417,588
MAUI: (2nd Land District)							
Number .....	5		27		12	26	70
Area (acres) .....	40.887		16.820		1,311.388	273.293	1,642.388
Price* or Annual Rental** .....			\$220,947		\$ 34,333	\$ 15,780	\$ 217,060
OAHU: (3rd Land District)							
Number .....	14	1	25	1	12	76	129
Area (acres) .....	400.805	.247	4.954	.247	210.348	266.000	882.601
Price* or Annual Rental** .....		\$ 32,500	\$146,960	\$ 32,500	\$ 76,350	\$107,847	\$ 396,157
KAUAI: (4th Land District)							
Number .....	11	81	26	81	13	6	218
Area (acres) .....	14.901	19.054	12.612	19.054	2,386.747	4.303	2,456.671
Price* or Annual Rental** .....		\$403,200	\$ 91,981	\$403,200	\$ 8,084	\$ 612	\$ 907,077
GRAND TOTALS:							
Number .....	42	83	143	84	66	125	543
Area (acres) .....	533.756	19.534	67.374	19.676	7,945.877	16,370.020	24,956.237
Price* or Annual Rental** .....		\$440,800	\$811,208	\$442,064	\$164,061	\$133,749	\$1,991,882

**GENERAL LEASES ISSUED—ALL ISLANDS****July 1 1966 to June 30, 1967**

Use	Area	Annual Rent	No.
Agriculture .....	941.739	\$ 37,152.00	17
Business .....	141.229	90,721.00	9
Cane .....	496.209	8,548.00	5
County .....	34.688	.....	1
Eleemosynary .....	9.797	2,700.00	5
Federal .....	33.058	.....	1
Fishpond .....	.....	.....	.....
Industrial .....	1.918	3,684.00	2
Pasture .....	6,085.536	12,765.00	15
Pine .....	.....	.....	.....
Recreational .....	.....	.....	.....
Residential .....	.....	.....	.....
Rights of Way .....	1.268	483.00	10
Waste .....	195.335	(a)	(a)
Water .....	5,100.000	8,000.00	1
TOTALS .....	7,945.877	\$164,061.00	66

(a) Included in sugar cane leases.

**GENERAL LEASES ISSUED—HAWAII****July 1 1966 to June 30, 1967**

Use	Area	Annual Rent	No.
Agriculture .....	30.225	\$ 821.00	4
Business .....	3.765	17,949.00	4
Cane .....	354.161	4,963.00	2
County .....	34.688	.....	1
Eleemosynary .....	6.673	2,610.00	2
Federal .....	33.058	.....	.....
Fishpond .....	.....	.....	.....
Industrial .....	.918	2,184.00	1
Pasture .....	3,500.756	8,446.00	7
Pine .....	.....	.....	.....
Recreational .....	.....	.....	.....
Residential .....	.....	.....	.....
Rights of Way .....	.849	321.00	6
Waste .....	67.201	(a)	(a)
Water .....	5,100.000	8,000.00	1
TOTALS .....	4,037.394	\$ 45,294.00	29

(a) Included in sugar cane leases.

**GENERAL LEASES ISSUED—MAUI****July 1 1966 to June 30, 1967**

Use	Area	Annual Rent	No.
Agriculture .....	786.170	\$ 28,700.00	2
Cane .....	142.048	3,585.00	3
Eleemosynary .....	3.000	90.00	1
Industrial .....	1.000	1,500.00	1
Pasture .....	250.860	430.00	4
Rights of Way .....	.176	28.00	1
Waste .....	128.134	(a)	(a)
TOTALS .....	1,311.388	\$ 34,333.00	12

(a) Included in sugar cane leases.

**GENERAL LEASES ISSUED—KAUAI****July 1 1966 to June 30, 1967**

Use	Area	Annual Rent	No.
Agriculture .....	52.002	\$ 2,971.00	5
Business .....	.618	1,200.00	1
Cane .....	.....	.....	.....
County .....	.....	.....	.....
Eleemosynary .....	.014	.....	1
Federal .....	.....	.....	.....
Fishpond .....	.....	.....	.....
Industrial .....	.....	.....	.....
Pasture .....	2,333.920	3,889.00	4
Pine .....	.....	.....	.....
Recreational .....	.....	.....	.....
Residential .....	.....	.....	.....
Rights of Way .....	.193	24.00	2
Waste .....	.....	.....	.....
Water .....	.....	.....	.....
TOTALS .....	2,386.747	\$ 8,084.00	13

(a) Included in sugar cane leases.

**GENERAL LEASES ISSUED—OAHU****July 1 1966 to June 30, 1967**

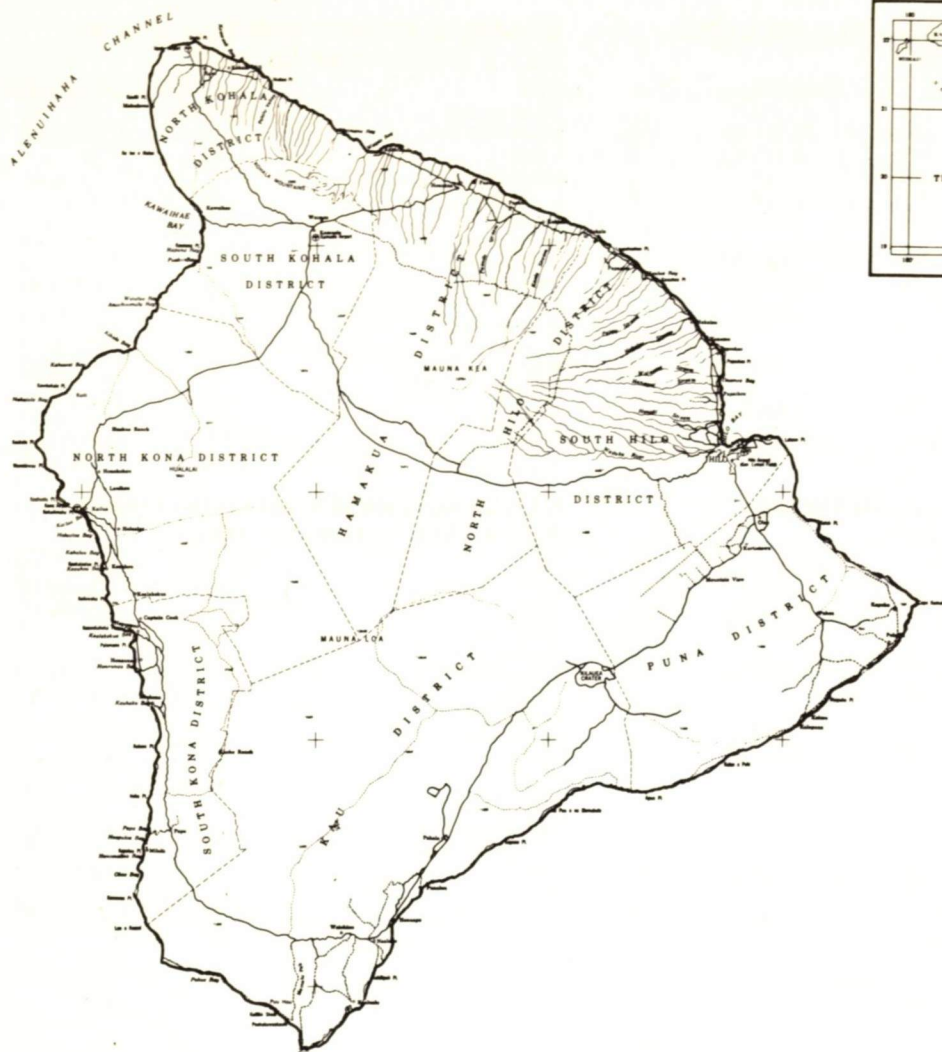
Use	Area	Annual Rent	No.
Agriculture .....	73.342	\$ 4,660.00	6
Business .....	136.846	71,580.00	4
Cane .....	.....	.....	.....
County .....	.....	.....	.....
Eleemosynary .....	.110	.....	1
Federal .....	.....	.....	.....
Fishpond .....	.....	.....	.....
Industrial .....	.....	.....	.....
Pasture .....	.....	.....	.....
Pine .....	.....	.....	.....
Recreational .....	.....	.....	.....
Residential .....	.....	.....	.....
Rights of Way .....	.050	110.00	1
Waste .....	.....	.....	.....
Water .....	.....	.....	.....
TOTALS .....	210.348	\$ 76,350.00	12

(a) Included in sugar cane leases.

**EXISTING GENERAL LEASES AND LICENSES CLASSIFICATION SUMMARY, TOTAL ALL ISLANDS  
In Effect July 1, 1966 - June 30, 1967**

Use	Area (acres)	Annual Rental	No.
Agriculture, General .....	3,014.681	\$ 87,630.15	158
Business .....	258.289	306,267.96	70
Cane .....	29,132.900	478,772.69	32
County .....	65.477	.....	15
Eleemosynary .....	190.931	19,131.00	17
Federal .....	42,051.589	1,202.00	22
Fishpond .....	51.467	621.14	2
Industrial .....	738.247	129,521.62	51
Pasture .....	318,963.017	582,340.28	193
Pineapple .....	665.025	19,469.08	3
Recreational .....	94.799	2,105.00	5
Residential .....	22.898	14,981.50	36
Rights of Way .....	355.245	18,626.37	87
Waste .....	17,158.900	123.50	(a)
Water .....	13,260.540	204,614.00	45
TOTALS .....	426,024.005	\$1,865,406.29	736

(a) Included in sugar cane leases.



## FIRST LAND DISTRICT Island of Hawaii

### General Lease Summary, First Land District

Use	Area (acres)	Annual Rental	No. Leases
Agriculture, General .....	686.470	\$ 5,593.00	25
Business .....	54.400	138,357.96	36
Sugar Cane .....	11,042.222	86,303.19	21
County .....	60.356	.....	12
Eleemosynary .....	12.016	6,264.00	5
Federal Government .....	22,894.144	.....	6
Fishpond .....	50.867	484.14	1
Industrial .....	621.539	57,285.62	43
Pasture .....	275,003.297	514,943.51	91
Residential .....	10.448	13,005.50	27
Rights of Way .....	107.226	8,639.52	22
Waste Land .....	744.386	123.50	(a)
Water Licenses, Reservoirs, etc. ....	5,130.610	11,032.00	5
<b>TOTALS .....</b>	<b>316,417.981</b>	<b>\$ 842,031.94</b>	<b>294</b>

(a) included in sugar cane leases

cane —Sugar cane  
agr —Agriculture, general  
bus —Business  
cty —County  
ele —Eleemosynary

fed —Federal Government  
fpd —Fishpond  
ind —Industrial  
past —Pasture  
pine —Pineapple

rec —Recreational  
res —Residential  
r/w —Rights of way  
waste—Waste Land  
wtr —Water Licenses, reservoirs, etc.

GENERAL LEASES AND LICENSES—FIRST LAND DISTRICT, JUNE 30, 1967

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
2480	Finance Investment Co., Ltd.	8/25/36- 3/14/2015	Lot 5, Ocean View Lots, South Hilo, Hawaii	.72	bus	\$ 4,234.00
2481	Finance Investment Co., Ltd.	8/25/36- 3/14/2015	Lot 8, Ocean View Lots, South Hilo, Hawaii	.75	bus	4,764.00
2610	Finance Investment Co., Ltd.	6/ 1/39- 3/14/2015	Lot 7, Ocean View Lots, South Hilo, Hawaii	2.95	bus	26,370.00
2899	James & Miulan Y. Kealoha	12/29/41- 3/14/2015	Lot 17, Waiakea Warehouse Lots, Waiakea, South Hilo, Hawaii	2.16	bus	375.00
2908	Matsuno F. Nakagawa	11/ 1/42- 3/31/82	Waiakea, South Hilo, Hawaii	50.867	fpd	484.14
L-2964	Edward C. Hustace	3/15/41-(revokable)	Honuaula Mauka Tract No. 3, Keala-kehe Mauka Tract, Kalaoa-Ooma Mauka Tract, Makaula-Haleohiu Tract, North Kona, Hawaii		r/w	12.00
3029	Nalei Incorporated	9/13/45- 8/14/2015	Lots 12 & 12-A, Ocean View Lots, South Hilo, Hawaii	1.19	res	8,112.00
3154	Wallace Ah Fook Aki	11/18/46-11/17/67	Lot 21, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.16	res	360.00
3155	Kenneth K. Bell	3/15/47- 3/14/2015	Lot 22, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.163	res	155.00
3156	Tungert L. & Harvey C. Chong	11/18/46- 3/14/2015	Lot 23, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.17	res	186.00
3157	Robert C. McKeen	11/18/46- 3/14/2015	Lot 24, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.17	res	366.00
3158	Hideo Funada	11/18/46- 3/14/2015	Lot 25, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.17	res	306.00
3160	Adam C. Baker, Dec.	11/18/46-11/17/67	Lot 27, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.173	res	141.00
3161	Adam C. Baker, Dec.	11/18/46-11/17/67	Lot 28, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.18	res	299.00
3162	Clarence T. & Kitome Ohama	11/18/46- 3/14/2015	Lot 29, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.18	res	163.00
3163	Kaiva & Josephine Martinson Tuiasosopo	11/18/46- 3/14/2015	Lot 30, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.18	res	165.00
3164	Electrical Workers	11/18/46- 3/14/2015	Lot 31, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.18	res	167.00
3165	Lily B. L. Y. Wong	11/18/46- 3/14/2015	Lot 32, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.18	res	169.00
3166	John W. & Adele M. Jensen	5/ 7/65- 3/14/2015	Lot 33, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.19	res	170.00
3167	William J. & Anna Mehau	9/10/47- 3/14/2015	Lot 34, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.19	res	172.50
3168	Gaspro, Limited	9/10/47- 3/14/2015	Lot 35, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.19	res	185.00
3169	Ernest M. & Adelaide Cabrinha	9/10/47- 3/14/2015	Lot 36, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.19	res	174.00
3170	Ernest M. & Adelaide Cabrinha	9/10/47- 3/14/2015	Lot 37, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.185	res	180.00
3201	Charles L. Murray	5/ 1/47- 4/30/68	Lot 3, Hienaloli 1st, North Kona, Hawaii	2.85	res	75.00
3202	Frank Ferreira	5/ 1/47-11/ 1/2017	Lots 134 and 135, Lehia Park Res. Lots, South Hilo, Hawaii	.88	res	50.00
3247	Hilo Electric Light Co., Ltd.	1/16/48- 1/15/69	Olaa, Puna, and Waiakea, Hawaii	11.451	r/w	100.00
3249	Santa Yoza	1/16/48- 1/15/69	Piha, North Hilo, Hawaii	2.723	agr	100.00
3252	Est. of L. L. McCandless	1/16/48- 1/15/69	Waiea, South Kona, Hawaii	1,258.0	past	150.00
3253	Kiyoshi Soga	6/15/48- 6/14/69	Kaniahiku Government Remainder, Puna, Hawaii	18.20	agr	30.00
3254	Peter N. Pakele, Jr.	6/15/48- 6/14/69	Lot 5, Blk. 48, Waiakea House Lots, South Hilo, Hawaii	.61	ind	125.00
3255	Robert M., Emma M., Ronald L. & Donald K. Yamada and Maile E. Chong, dba Yamada Transfer	6/15/48- 6/14/69	Lots 9 to 16, Blk. 40, Waiakea House Lots, South Hilo, Hawaii	3.67	ind	1,000.00
3256	Hilo Bayview, Inc.	6/15/48- 6/14/69	Lots 3, 4, 6, 7, Blk. 48, Waiakea House Lots, South Hilo, Hawaii	1.79	ind	500.00
3259	Pepeekeo Sugar Co.	6/15/48- 6/14/69	Abandoned r/r r/w bounded by Lots 10, 11, 18 & 19, Kulaimano Homesteads, South Hilo, Hawaii	3.05	r/w	\$ 30.00
3265	William J. Kimi, Jr.	6/ 1/49- 3/14/2015	Lot 2, Ocean View Lots, Waiakea, South Hilo, Hawaii	.586	bus	2,981.00
3266	William J. Kimi, Jr.	8/10/49- 3/14/2015	Lot 3, Ocean View Lots, Waiakea, South Hilo, Hawaii	.531	bus	2,716.00
3267	William J. Kimi, Jr.	6/ 1/49- 3/14/2015	Lot 4, Ocean View Lots, Waiakea, South Hilo, Hawaii	.495	res	300.00
3268	Finance Investment Co., Ltd.	6/ 1/49- 3/14/2015	Lots 5 & 6, Ocean View Lots, Waiakea, South Hilo, Hawaii	.749	bus	4,894.00
3269	Constantine Roumanis	6/ 1/49- 3/14/2015	Lot 10, Ocean View Lots, Waiakea, South Hilo, Hawaii	.92	res	500.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3273	Honokaa Sugar Co.	3/ 3/49- 3/ 2/70	Honokaia Mauka Tract, Hamakua, Hawaii	243.465	cane	1,094.69
3330	Mana Transportation Co., Ltd.	11/12/49-11/11/70	Lots 1 & 3, Blk. 40, Waiakea House Lots, 1st Series, South Hilo, Hawaii	.92	bus	250.00
3332	Julia Toledo	11/12/49-11/11/70	Parcels 4 & 7, T.M.K. 3-4-01, 3rd Division, Waikaumalo-Maulua Homesteads, North Hilo, Hawaii	38.84	past	15.00
3333	William K. Kamau, Sr.	11/10/49-11/11/70	Lots 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 20A, Waiakea, South Hilo, Hawaii	133.003	past	792.94
3334	Norman Brand	11/12/49-11/11/70	Gov't remnant at Ahualoa, Hamakua, Hawaii	4.367	past	11.42
3335	Dillingham Investment Corp.	11/12/49-11/11/70	Gov't. Land of Honomalino & Okoe, South Kona, Hawaii	1,458.14	past	326.00
3336	George Henry & Richard Adam Ignacio	11/12/49-11/11/70	Parcels 10 & 12, T.M.K. 3-4-01, 3rd Division, Waikaumalo-Maulua Homesteads, North Hilo, Hawaii	59.24	past	97.00
3338	Hilo Electric Light Co., Ltd.	11/12/49-11/11/70	Portion of Gov't. land situate west Kinooole St., Waiakea, S. Hilo, Hawaii	.01	bus	20.00
3339	M. C. Child	11/12/49-11/11/70	Lot 2, Blk. 39, Waiakea House Lots, South Hilo, Hawaii	.45	bus	120.00
3340	Norman N. Inaba	11/12/49-11/11/70	Kaulanamauna Kipuka, Meauka Kipuka, Kau, South Kona, Hawaii	1,091.0	past	450.00
L-3341	Hawaiian Telephone Company	11/12/49-11/11/70	Piihonua, Humuula, Kaohe III & V, Waiakea-Uka, Maunakea & Kaula, Hilo, Hawaii	40.00	r/w	20.00
3343	John Rapoza, St.	4/10/50- 4/ 9/71	Waiakea, South Hilo, Hawaii	259.49	past	135.00
3344	Martin J. Branco	4/10/50- 4/ 9/71	Waiakea, South Hilo, Hawaii	319.6	past	80.00
3345	Alfred R. Menino	4/10/50- 4/ 9/71	Lot 907, Waiakea Homesteads, Waiakea, South Hilo, Hawaii	40.0	past	210.00
3347	Hilo Electric Light Co., Ltd.	4/10/50- 4/ 9/71	Portion of Lot 615-B, Waiakea Homesteads, Waiakea, South Hilo, Hawaii	.056	bus	12.00
L-3350	Hawaiian Ranch Co., Inc.	7/ 1/50- 6/30/71	Pahala, Kau, Hawaii		wtr	1,800.00
L-3351	Hawaiian Ranch Co., Inc.	7/ 1/50- 6/30/71	Naalehu, Kau, Hawaii		wtr	1,200.00
L-3353	Richard Smart	1/ 1/52-12/31/72	Honokaia, Part 1, Hamakua, Hawaii	738.0	past	7,570.00
3354	Honokaa Sugar Co.	1/ 1/52-12/31/72	Gov't. Remainders of Papaki, Koloaha Au 1st, Hamakua, Hawaii	31.69	cane	779.33
3355	Richard Smart	1/ 1/52-12/31/72	Kaohe, Kaohe III Sec., A-1, Hamakua, Hawaii	17.66	past	125.25
3356	Richard Smart	1/ 1/52-12/31/72	Por. Land of Haleaha & Puukapu, South Kohala, Hawaii	1,202.0	past	7,000.00
3357	Richard Smart	1/ 1/52-12/31/72	Por. HHL of Pauahi, South Kohala, Hawaii	416.0	past	5,000.00
3358	Kahua Ranch, Ltd.	1/ 1/52-12/31/72	Por. HHL of Pauahi, South Kohala, Hawaii	555.45	past	7,000.00
3359	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Waimea, South Kohala, Hawaii	9,935.57	past	40,500.00
3360	Hawaiian Ranch Co., Inc.	10/10/62-12/31/72	Kaohe-VI, Hamakua, Hawaii	3,110.0	past	12,600.00
3361	Richard Smart	1/ 1/52-12/31/72	Parcel 2, Kaalaala Makai, Kau, Hawaii	1,777.0	past	400.00
3362	Anna Ranch	1/ 1/52-12/31/72	Part 3, Por. of Gov't. Land of Hono-Kaia, Hamakua, Hawaii	508.0	past	7,100.00
3363	Hawaiian Ranch Co., Inc.	1/ 1/52-12/31/72	Puukapu Pasture Lot No. 9, South Kohala, Hawaii	333.81	past	3,005.88
3364	Richard Smart	1/ 1/52-12/31/72	Kamaoa-Puueo Tract, Kau, Hawaii	10,289.284	past	35,038.72
3366	Richard Smart	1/ 1/52-12/31/72	Gov't. Crown Land of Honokaia, Hamakua, Hawaii	739.0	past	8,800.00
3367	Richard Smart	1/ 1/52-12/31/72	Puu Kawaiwai, Panoluukia, Kapia, Waimea, South Kohala, Hawaii	2,978.03	past	16,200.00
3369	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Kaohe 11, Hamakua, Hawaii	7,932.36	past	40,700.00
3370	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Hoea & Kaao, Hamakua, Hawaii	1,902.0	past	16,000.00
3371	Richard Smart	1/ 1/52-12/31/72	Portion of Gov't. Remainder of Niupea, Hamakua, Hawaii	66.0	past	40.00
3373	Richard Smart	1/ 1/52-12/31/72	Kalopa, Hamakua, Hawaii	6,080.0	past	42,200.00
3374	Richard Smart	1/ 1/52-12/31/72	Kipi-Kehene 1st, North Kohala, Hawaii	107.0	past	300.00
3375	Richard Smart	1/ 1/52-12/31/72	Por. Puukapu Pasture Lot No. 10, South Kohala, Hawaii	2,376.32	past	\$10,500.00
3376	Hawaiian Ranch Co., Ltd.	1/ 1/52-12/31/72	Honokaia, Part 4, Hamakua, Hawaii	508.0	past	8,600.00
3377	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Por. Gov't Land of Kapapala, Kau, Hawaii	36,873.02	past	51,700.00
3378	Richard Smart	1/ 1/52-12/31/72	Parcel 1, Kaohe II, Hamakua, Hawaii	675.32	cane	11,818.10
3379	Richard Smart	1/ 1/52-12/31/72	Portion Land of Momoualoo, Waimea, South Kohala, Hawaii	7,780.0	past	42,000.00
			Kaoniki, Kauniho, Lalamilo, Puukapu, Waimea, South Kohala, Hawaii	391.0	past	7,800.00
				332.307	past	7,581.50

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3380	Richard Smart	1/ 1/52-12/31/72	Honokaia, Part 5, Hamakua, Hawaii	768.477	past	12,200.00
3381	Richard Smart	1/ 1/52-12/31/72	Lalamilo, Waimea, South Kohala, Hawaii	1.961	past	45.32
3382	Kukaiiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Por. Gov't. Remainder Manowaialee, Hamakua, Hawaii	162.0	past	1,000.00
3412	Sure Save Super Market, Limited	4/ 7/52- 4/ 6/73	Kamehameha Avenue & Kalanikoa Ave., Waiakea, South Hilo, Hawaii	.80	bus	1,062.00
3413	Santos Ramiro	4/ 7/52- 4/ 6/67	Lot 31-A, Kaauhuhu Homesteads, Kaauhuhu, North Kohala, Hawaii	5.64	agr	121.00
3414	Robert M. & Emma L. Yamada	4/ 7/52- 4/ 6/73	Lots 10, 11-A & 11-B, Kaimu-Makena Homesteads, Puna, Hawaii	177.55	agr	50.00
3415	Tuck Lee Chang	4/ 7/52- 4/ 6/67	Waiakea Homesteads, Waiakea, South Hilo, Hawaii	10.0	agr	100.00
3420	Tropics Lanai, Inc.		Kilauea & Piopio St., S. Hilo	.24	bus	125.00
3422	Robert M. Yamada, Emma M., Ronald L. & Donald K. Yamada & Maile E. Chong, dba Yamada Transfer	6/ 1/52- 6/13/69	N.W. Corner of Lanikaula & Railroad Ave., Waiakea, South Hilo, Hawaii	1.15	ind	250.00
3424	Hajime Harada	6/ 1/52- 5/31/73	Lots 6 and 8, Blk. 40, Waiakea House Lots, 1st Series, S. Hilo, Hawaii	1.02	ind	250.00
3425	James R., Edward R., Yasuo & Yoshinobu Kuwaye, dba Edward R. Kuwaye & Co.	6/ 1/52- 5/31/73	Lot 14, Blk. 48, Waiakea House Lots Extension at Waiakea, South Hilo, Hawaii	.60	ind	300.00
3426	Chieno, Masaru & Chitoshi Doi	6/ 1/52- 5/30/73	Kawaihae 1, Kawaihae Village, South Kohala, Hawaii	.572	res	200.00
3427	Hilo Metals Co., Ltd.	4/ 7/52- 4/ 6/73	Lots 2 & 4, Blk. 40, Waiakea House Lots, 1st Series, South Hilo (Waiakea), Hawaii	.70	ind	250.00
3428	Maurice & Molly D. Zimring	6/ 1/52- 5/30/73	Lot 11, Keaukaha Seaside Lots Waiakea, South Hilo, Hawaii	.27	res	230.00
3431	Richard Smart	10/ 1/52- 9/30/73	Kaohe III, Section B, Hamakua, Hawaii	1,762.936	past	600.00
3432	Palani Ranch Trust	10/ 1/52- 9/30/73	Lots 1 to 20, Kealakehe Homesteads, 2nd Series, North Kona, Hawaii	1,536.072	past	1,726.02
3433	Dillingham Investment Corp.	4/ 8/53- 4/ 7/74	Honomalino-Hoopuloa Mauka Tract, South Kona, Hawaii	2,717.924	past	1,000.00
3434	Richard Smart	12/20/52-12/19/73	Keanuimano, Puuiki & Waikoloa Iki, Waimea, South Kohala, Hawaii	437.0	past	2,200.00
3435	Honomaino Agricultural Company	7/ 3/52- 7/ 2/73	Kaulanamauna, South Kona, Hawaii	2,095.538	past	425.00
3436	Richard Smart	10/ 1/52- 9/30/73	Kaohe III, Section A-2, Hamakua, Hawaii	101.40	past	85.00
L-3437	Hawaiian Trust Co., Ltd.	7/ 3/52- 7/ 2/73	Parcels 1 & 2, of Gov't. Land of Lalamilo, South Kohala, Hawaii	.08	r/w	12.00
3438	Richard Smart	7/ 1/53- 6/30/74	Parcel 1, Por. of Humuula (Keanakolu Paddocks), North Hilo, Hawaii	5,290.00	past	16,000.00
3439	Richard Smart	7/ 1/53- 6/30/74	Parcel 2, Por. of Humuula (Hopuwai Paddock), North Hilo, Hawaii	7,512.8	past	14,000.00
3440	Richard Smart	7/ 1/53- 6/30/74	Parcel 3, Por. of Humuula, Kaohe (Kole & Laumaia Paddocks), North Hilo, Hawaii	20,377.317	past	18,000.00
3441	Richard H. Jose	7 1/53- 6/30/74	Laupahoehoe Mauka, Laupahoehoe, North Hilo, Hawaii	110.0	past	915.00
3442	Hawaiian Ranch Co., Inc.	7/ 1/53- 6/30/74	Parcels A & B and Ninole Gov't. Fish Pond, Kau, Hawaii	332.559	past	520.00
3443	Hawaiian Ranch Co., Inc.	7/ 1/53- 6/30/74	Parcels 1 & 2, Kaunamano Homesteads, Kau, Hawaii	477.16	past	930.00
3444	Hawaiian Ranch Co., Inc.	7/ 1/53- 6/30/74	Wailau Gov't. Remainder Kau, Hawaii	345.8	past	200.00
3445	Laupahoehoe Sugar Company	12/29/52-12/28/73	Laupahoehoe, North Hilo, Hawaii	11.79	past	205.00
3446	Joaquin Ramos	7/ 1/53- 6/30/74	Lots 92, 93 & 94, Olaa New Tract Lots, Olaa, Puna, Hawaii	150.0	past	50.00
3449	Hawaiian Ranch Co., Inc.	12/29/52-12/28/73	Parts 1 & 2, Por. of Moaula-Kopu-Makaka Makai, Kau, Hawaii	2,376.85	past	1,025.00
L-3453	Laupahoehoe Sugar Company	10/ 1/53- 9/30/74	Papaalooa, Manowaiopae & Kihalani Homestead Tracts, & por. of Laupahoehoe, North Hilo, Hawaii		r/w	12.00
L-3454	Hilo Electric Light Co., Ltd.	10/ 1/53- 9/30/74	Honokaia, Kapolena, Kamoku & Puukapu, Waimea, South Kohala, Hawaii		r/w	\$ 100.00
L-3455	Kohala Sugar Company	10/ 1/53- 9/30/74	Kahei Mauka, Section A, Kahei Makai, Section B, Hualua Middle, Section B; Hualua Makai, Section B & Awalua Haena, North Kohala, Hawaii	24.52	r/w	72.12
L-3456	Hilo Electric Light Co., Ltd.	10/ 1/53- 9/30/74	Waiakea, South Hilo, Hawaii	.085	r/w	12.00

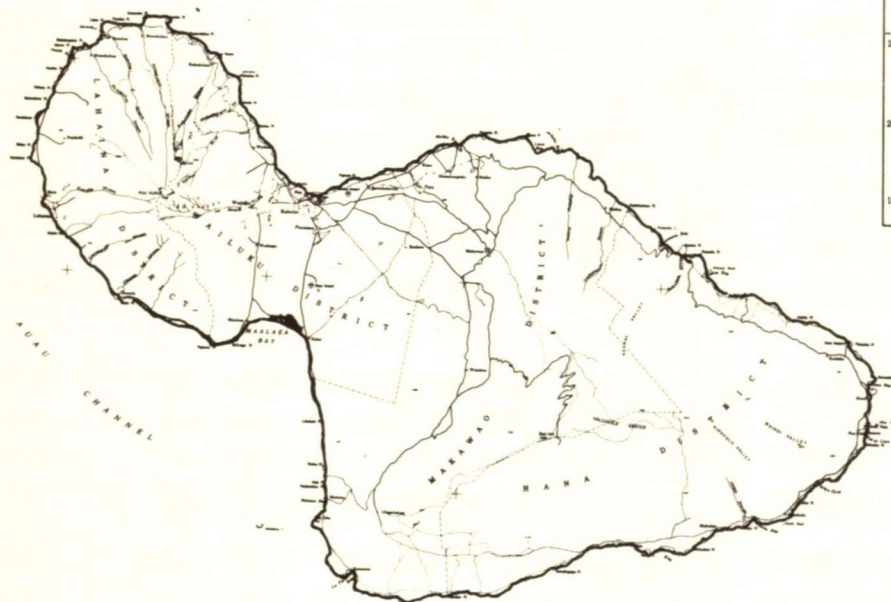
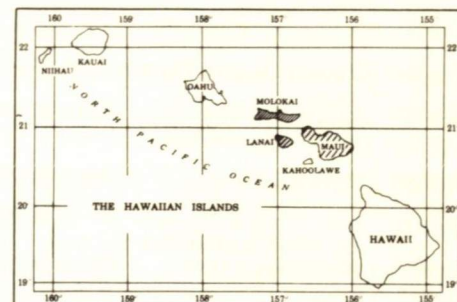
No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
L-3457	Standard Oil of California	10/ 1/53- 9/30/74	Waiakea-Kai, South Hilo, Hawaii	.21	r/w	12.00
3472	Honokaa Sugar Company	4/ 9/54- 4/ 8/75	Keaa-Mauka Tract, Hamakua, Hawaii	53.7	past	430.00
3473	Joseph L. Ventura	1/ 1/55-12/31/75	Parcel A, Piihonua Pasture Land, South Hilo, Hawaii	195.05	past	200.00
3475	George R. & Clifford A. Freitas	1/ 1/55-12/31/75	Por. of Lot 22-D-1 of Pohakulua Tract, North Kohala, Hawaii	83.21	past	1,400.00
3476	Tanji Yasukochi	5/ 1/55- 4/30/70	Kaniahiku, Puna, Hawaii	2.21	agr	76.00
3477	Sukejiro Sugimoto	6/ 1/55- 5/31/70	Kaniahiku, Puna, Hawaii	3.64	agr	76.00
3479	Hilo Metals Co., Ltd.	6/ 1/54- 5/31/75	Waiakea, South Hilo, Hawaii	1.42	ind	350.00
3480	Laupahoehoe Sugar	4/ 9/54- 4/ 8/75	Por. of Pali & Gulch, Papaaloa Homesteads, North Hilo, Hawaii	6.00	wtr	31.00
3481	The Flintkote Company	6/ 1/54- 5/31/75	Waiakea Fish Pond, Waiakea, South Hilo, Hawaii	24.61	wtr	1.00
3482	Clarence J. Branco	4/ 9/54- 4/ 8/75	Lots 812-A, 912-A & 913, Waiakea Homesteads, 2nd Series, S. Hilo, Hawaii	92.681	past	1,194.10
3483	James R., Edward R., Yasuo & Yoshinobu Kuwaye, dba Edward R. Kuwaye & Company	6/ 1/54- 5/31/75	Lot 15, Corner of Kamehameha Ave. & Kalanikoa St., Waiakea, S. Hilo, Hawaii	.60	ind	300.00
3506	Charles L. Murray	11/10/54-11/ 9/75	Lot A, Corner of Kamehameha Ave. & Kalanikoa St., Waiakea, South Hilo, Hawaii	.47	bus	838.00
3507	Anthony M. Phillips, dba Phillips U-Drive	11/10/54-11/ 9/75	Lot B, Kamehameha Avenue between Kalanikoa & Kanoiehuea St., Waiakea, South Hilo, Hawaii	.34	bus	400.00
3508	Anna L. Perry-Fiske	11/10/54-11/ 9/75	Lot 11, Lalamilo House Lots, 3rd Series, Lalamilo, S. Kohala, Hawaii	.28	past	12.00
3509	William K. Thompson	11/10/54-11/ 9/75	Por. of Pahoeohoe 1-4, Maunaoui, Haleili, Haukalua 1-2, Alae 1-2, Pahoeohoe 1, South Kona, Hawaii	1,067.50	past	150.00
3511	Hutchinson Sugar	1/ 1/55-12/31/69	Kaunamano Homesteads & Section 2, K, Kawala-Kaunamano Tract, Kau Hawaii	454.10 662.50 4.60 11.00	cane past r/w waste	2,134.27 1,056.90 8.40 1.10
L-3521	Shell Oil Co., Union Oil Co. of Calif., & Phillips Petroleum Co.	6/ 7/55- 6/ 6/76	Waiakea-Kai, Hilo, Hawaii	.12	r/w	12.00
L-3528	Volcanite, Limited	11/ 8/55-11/ 7/76	Puuwaawaa Quarry Hill Puuwaawaa, Hawaii	506.126	ind	1,000.00
3529	Sure Save Super Market, Ltd.	11/ 8/55-11/ 7/76	Waiakea, South Hilo, Hawaii	.59	bus	300.00
3530	Tsuruyo Oda	11/ 8/55-11/ 7/76	Waiakea, South Hilo, Hawaii	2.532	agr	120.00
3531	Jihizo Ota	11/ 8/55-11/ 7/70	Lot 63, Ponahawai, House Lots Ponahawai, South Hilo, Hawaii	2.07	agr	24.00
3532	Benso Yamanouchi	11/ 8/55-11/ 7/76	Lot 12, Kaumana House Lots, Kaumana, South Hilo, Hawaii	.16	agr	12.00
3533	Honolulu Roofing Co., Ltd.	11/ 8/55-11/ 7/76	Lot 9, Keaukaha Seaside Lots, Waiakea, South Hilo, Hawaii	.42	res	180.00
3534	Thomas R. Araujo	11/ 8/55-11/ 7/76	Piihonua, South Hilo, Hawaii	2.67	past	24.00
3566	Hawaiian Ranch Co., Inc.	10/25/56-10/24/77	Por. Section "A", Kaalaala-Makakupu	67.55 .48 1,354.17 100.0	cane waste past past	675.50 300.00 100.00
3567	E. L. Wung's Ranch, Ltd.	10/25/56-10/24/77	Lots 338 and 339, Olaa Reservation			
3569	Takayoshi M. Oda	10/25/56-10/24/77	Lots 2, 4, 6, 8, 10 & 12, Blk. 30, Waiakea House Lots, 1st Series, Waiakea, South Hilo, Hawaii	3.10	agr	100.00
3570	Kohala Sugar Company	10/ 1/57- 9/30/72	Opihipau-Hukiaa, Kalei & Hualua, Hawaii	1,235.506 11.000 62.025 .377	cane past waste bus	9,418.26 55.09 62.03 650.00
3571	Sure Save Super Market, Limited	8/11/56- 4/ 6/73	Gov't. Lot, Kamehameha Avenue			
3573	Hawaii Broadcasting System, Limited	11/ 8/58-11/ 7/79	Waiakea, South Hilo, Hawaii Humuula, North Hilo, Hawaii	2.038	bus	100.00
L-3574	Jas. W. Glover, Ltd.	8/11/59- 8/10/80	Waiakea, South Hilo, Hawaii	74.314	ind	2,594.62
3575	Honpa Hongwanji Mission of Hawaii	8/11/58- 8/10/79	Lots 7 & 8, Waiakea Cane Lots, Waiakea, South Hilo, Hawaii	38.58	past	139.86
L-3576	Union Oil Co. of California	9/10/58- 9/ 9/79	Gov't. Land of Waiakea, South Hilo, Hawaii	.12	r/w	\$ 120.00
3580	Koei & Katsue U. Ishimine	7/20/59- 7/19/69	Lot 34-A, Kaaauhuhu Homestead, North Kohala, Hawaii	8.6	agr	150.00
3582	Richard M. Schultz	11/ 5/59-11/ 4/74	Lots 43 to 52 & 55 to 59, Waiohinu House Lots, 2nd Series, Kau, Hawaii	11.77	agr	50.00
3583	Robert M. Yamada	11/ 5/59-11/ 4/2004	Lots 4, 6, 7, 8, Blk. 39; Lots 5 & 7, Blk. 40, Waiakea Lots, Waiakea, South Hilo, Hawaii	2.57	bus	900.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3584	Peepee Sugar Company	2/ 1/60-12/31/89	Gov't. Lands of Kamae-Wailua & Puuoha, North Hilo, Hawaii	548.75	cane	3,010.37
3585	Peepee Sugar Company	2/ 1/60-12/31/89	Honolulu-Hukua, Kaakepa & Kaupakua, South Hilo, Hawaii	907.93	cane	6,975.10
3586	Mauna Kea Sugar Co., Inc.	2/ 1/60-12/31/89	Kawainui, South Hilo, Hawaii	191.00	cane	1,403.05
3587	Paauhau Sugar Co., Ltd.	2/ 1/60-12/31/89	Kaunamano, Hamakua, Hawaii	32.10	cane	210.00
3589	Dillingham Investment Corp.	8/15/60- 8/14/2000	Gov't. Lands of Puuanahulu & Puuwaawaa, North Kona	105,796.58	past	30,000.00
3590	Texaco, Inc.	3/ 1/60- 2/28/85	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	2.66	ind	8,500.00
3591	Isamu Kanekuni & George T. Inouye, dba Veterans Produce Exchange	1/16/61- 1/15/2016	Lot 42, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.35	ind	560.00
3592	Hiroaki Kono, dba Hilo Transportation Co.	1/16/61- 1/15/2016	Lots 6 & 15, Waiakea Business & Industrial Lots, South Hilo, Hawaii	.78	ind	1,220.00
3593	Automotive Supply Center, Ltd.	1/16/61- 1/15/2016	Lot 38, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.38	ind	576.00
3594	Broto's Body & Fender, James Broto Toledo	1/16/61- 1/15/2016	Lot 15, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.22	ind	400.00
3595	Harry's Refrigeration Service	1/16/61- 1/15/2016	Lot 18, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
3596	Isao Morimoto, dba Mori's Paint Shop	1/16/61- 1/15/2016	Lot 37, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.38	ind	605.00
3597	William Aiona, Jr., dba Family Liquor Store	1/16/61- 1/15/2016	Lot C-1, Kamehameha Business Lots, Waiakea, South Hilo, Hawaii	.34	bus	1,110.00
3598	Honolulu Roofing Co., Ltd.	1/16/61- 1/15/2016	Lot 17, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
3599	Kaneko Jelly, Ltd.	1/16/61- 1/15/2016	Lot 22, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.77	ind	1,015.00
3600	Durant Realty Co.,	1/16/61- 1/15/2016	Lot 29, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.34	ind	585.00
3601	Edward Hamilton Inman	1/16/61- 1/15/2016	Lot 33, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.77	ind	828.00
3602	Hawaii Pest Control, Ltd.	7/ 5/63- 1/15/2016	Lot 40, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.36	ind	570.00
3603	Harders Company, Ltd.	1/16/61- 1/15/2016	Lot 41, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.29	ind	460.00
3604	Walter Kiyoshi Hamai, dba W. K. Hamai Repair Shop	1/16/61- 1/15/2016	Lot 46, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
3606	Hilo Kala, Inc.	7/19/66- 1/15/2016	Lot 28, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.34	ind	575.00
3609	Hawaii Transportation Co., Ltd.	1/16/61- 1/15/2016	Parcel II, Waiakea Bus. & Indus. Lots, South Hilo, Hawaii	2.36	ind	3,085.00
3611	Hawaii Planing Mill, Ltd.	1/16/61- 1/15/2016	Parcel IV, Waiakea Bus. & Indus. Lots, South Hilo, Hawaii	2.33	ind	3,660.00
3612	Hamakua Mill Co.	2/ 1/61- 1/31/91	Gov't. Land of Hoea-Kaao Makai Tract, Hamakua, Hawaii	1,078.13	cane	7,077.76
3613	Laupahoehoe Sugar Company	2/ 1/61- 1/31/91	Gov't. Lands at Humuula & Kahoauna, North Hilo, Hawaii	1,176.073	cane	7,444.58
3614	Laupahoehoe Sugar Company	2/ 1/61- 1/31/91	Niuepa-Kealakaha Gov't. Tracts & Gov't. Land at Kaala, Hamakua, Hawaii	655.60	cane	4,464.29
3615	Laupahoehoe Sugar Company	2/ 1/61- 1/31/91	Gov't. Lands of Ooala-Manowai, North Hilo & Hamakua, Hawaii	1,368.44	cane	9,781.49
3616	Laupahoehoe Sugar Company	2/ 1/61- 1/31/91	Kaiaakea Makai Gov't. Remainder, North Hilo, Hawaii	80.08	cane	580.99
3617	Honokaa Sugar Co.	2/ 1/61- 1/31/91	Kaao-Paalaea Gov't. Tract, Hamakua	434.74	cane	3,075.88
3618	Hilo Body Services, Limited	2/ 6/61- 2/ 5/2016	Lot 34, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.78	ind	1,015.00
3619	Gordon M. Ishii dba NO-D-LAY TOP SHOP	2/ 6/61- 2/ 5/2016	Lot 39, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.32	ind	510.00
3620	Shoichi Muramoto, dba Mura's Repair Shop	2/ 6/ 61- 2/ 5/2016	Lot 44, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.60	ind	1,165.00
3621	Hawaiian Grocery Stores, Ltd.	2/24/61- 2/23/2016	Lot 32, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.89	ind	1,170.00
3622	Satoru Amano dba Amano Fish Cake Factory	3/20/61- 3/19/2016	Lot 27, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.32	ind	545.00
3624	Castle & Cooke, Inc.	3/ 6/61- 3/ 5/2016	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	4.50	ind	5,880.00
3631	A & A Hawaii, Inc.	3/20/61- 3/19/2016	Lot 11, Kanoelehua Industrial Lots, Waiakea, South Hilo	.24	ind	\$ 410.00
3632	Hilo Draying Co., Ltd.	3/20/61- 3/19/2016	Lot 3, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	1.56	ind	2,000.00
3653	Heiji Muneno dba Cabby's Union Service	3/20/61- 3/19/2016	Lot 13, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	540.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3654	Kohala Sugar Co.	11/ 8/61-11/ 7/91	Por. of bottom lands of Pololu Valley, Pololu, North Kohala, Hawaii	141.00	cane	325.00
3655	Antonio R. Salcedo, Alfred Ruis & Don Winters, dba Triangle 3	2/11/62- 2/10/82	Remainder of Honuaula Mauka Tract 3, Honuaula, Kona & Lot 4, Hienaloli 1st, North Kona, Hawaii	2,963.83	past	10,000.00
3656	Richard Smart	8/11/61- 8/10/81	Por. of Puukole-Koaeae Mauka Tract, North Kohala, Hawaii	168.59	past	2,550.00
3657	Richard Smart	8/11/61- 8/10/81	Pohakulua Mauka Gov't. Tract, Pohakulua & Kalaha 1st, N. Kohala	191.35	past	750.00
3658	Richard Smart	8/11/61- 8/10/81	Por. of Kapaa Makai Gov't. Lots, North Kohala, Hawaii	53.55	past	83.68
3659	Arthur Botelho	8/11/61- 8/10/81	Por. Gov't. Land in Kilau Gulch, Manowaiopae Homesteads, Kilau, North Hilo, Hawaii	27.30	past	61.00
3660	Katsumi Sakai dba K. Sakai Painting Contractor	3/20/61- 3/19/2016	Lot 9, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.28	ind	468.00
3662	Mauna Kea Sugar Co., Inc.	8/16/61- 8/15/91	Gov't. Land of Piihonua, Parcels 1, 2, 3 & 4, South Hilo, Hawaii	1,358.61 14.33 603.68	cane past waste	10,950.53 35.83 60.37
3669	Jack & Sue Ota	3/20/61- 3/19/2016	Lot C, Hoolulu Business Lots, Waiakea, South Hilo, Hawaii	.69	bus	1,110.00
3670	Machida, Inc.	3/20/61- 3/19/2016	Lot 30, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.35	ind	585.00
3688	Richard S. Miyashiro dba Cafe 100	3/20/61- 3/19/2016	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	.57	bus	1,800.00
3696	Hawaiian Telephone Company	1/26/62- 1/25/83	Puumaile Home Site, Waiuli, Waiakea, South Hilo, Hawaii	1.00	r/w	30.00
S-3697	Hawaiian Telephone Company	1/26/62- 1/25/83	Humuula, North Hilo, Hawaii	10.558	r/w	20.00
S-3698	Bank of Hawaii	1/26/62- 1/25/2017	Lot 7, Resubdivision of Blk. 47, Waiakea House Lots, Waiakea, S. Hilo	.687	bus	2,064.00
S-3716	Masaru Shindo, dba Hilo Soda Works	10/29/62-10/28/2017	Lot 1-A, Kanoelehua Industrial Lots, South Hilo, Hawaii	.555	bus	851.40
S-3718	Hilo Auto Electric & Carburetor Services	6/28/63- 6/27/2018	Lot 12, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.258	bus	587.00
S-3719	Roger & Nora James	1/28/63- 1/27/83	Hulunani, Kaunaloa & Ki, Puna (Parts A & B), Puna, Hawaii	648.62	past	150.00
S-3720	Carl Meyer	1/28/63- 1/27/83	Lots 374, 381 & por. Lots 373, 379, 380, 382, Olaa Reservation Lots, Puna	227.73	past	575.00
S-3721	Raymond M. Kobayashi	11/30/62-11/29/72	Camp Sites 9 & 9-A, Waiakea Homesteads, 2nd Series, S. Hilo, Hawaii	1.74	past	30.00
S-3722	Hawaii Baptist Convention	11/30/62-11/29/2017	Por. Lot 5-C, Waiakea Cane Lots, South Hilo, Hawaii	1.00	ele	780.00
S-3723	S. K. Oda, Limited	11/30/62-11/29/2017	Por. Gov't. Land of Waiakea (West Kalanikoa St., between Kuawa & Kawelolani Sts., South Hilo, Hawaii	1.934	ind	2,781.00
S-3729	Hubert S. Andrews, dba Andrews Trucking Service	8/23/63- 8/22/2018	Lot 10, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.241	ind	572.00
S-3731	County of Hawaii	7/ 1/64- 6/30/2029	Mountain View Water System, Land Site #1, Puna, Hawaii	.186	cty	Gratis
S-3732	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Kaumana (Kaumana Cave), Hilo, Hawaii		cty	Gratis
S-3938	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Pahoa (Pahoa Cave), Puna, Hawaii		cty	Gratis
S-3739	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Malana (MacKenzie Cave), Puna, Hawaii		cty	Gratis
S-3742	Hilo Trailer, Limited	11/12/63-11/11/2018	Lots 8 to 13, inclusive, Waiakea Industrial Lots, South Hilo, Hawaii	2.00	ind	4,452.00
S-3744	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63- 4/25/2013	Puuanahulu Cave, North Kona		cty	Gratis
S-3745	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63- 4/25/2013	Pigeon Cave, Puuanahulu Mauka, North Kona		cty	Gratis
S-3746	Hilo Salvage Co., Ltd.	4/19/63- 4/18/2018	Lot 16, Keaukaha Seaside Lots, Waiakea, South Hilo, Hawaii	.66	bus	390.00
S-3750	Jiro Tanaka, dba Tanaka Electrical Service	4/26/63- 4/25/2018	Lot 8, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.272	bus	622.00
S-3751	County of Hawaii, Hilo Hospital Complex & Allied Facilities	6/ 7/63- 6/ 6/2028	Piihonua, South Hilo, Hawaii	22.453	cty	Gratis
S-3752	United States of America (U.S. Navy)	12/16/63-12/15/2028	Kamaoa, Kau, Hawaii	21.296	fed	Gratis
S-3834	Board of Water Supply	4/24/64- 4/23/2029	Under & across por. of Hamakua Water Reserve, Ahualoa Section, incl. in County's Ahualoa-Kaapahu-Pohakea Water System, Hamakua	.643	cty	Gratis

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3836	Tsuruyo Oda	6/16/64- 6/15/2019	Waiakea, north corner of Kilauea St. & Volcano Rd., South Hilo	7.855	bus	\$ 565.56
S-3837	Hongo Nursery, Inc.	6/16/64- 6/15/2019	Lot 18, Blk. 601, Waiakea Homesteads, 1st Series, South Hilo	10.00	bus	438.00
S-3839	United States of America	4/10/64- 4/ 9/74	Tract A, Hilo Breakwater Project, South Hilo, Hawaii	2.60	fed	Gratis
S-3844	University of Hawaii	7/30/64- 7/29/2029	Hamakua Experimental Farm, Kaohe, Hawaii	185.0	agr	Gratis
S-3849	U.S.A. (Army)	8/17/64- 8/16/2029	Pohakuloa Training Area	22,836.0	fed	Gratis
S-3853	U.S.A. (Army)	8/17/64- 8/16/2029	Pohakuloa Water License and Easements	.....	fed	Gratis
S-3855	County of Hawaii	10/11/63-10/10/2028	Kukuau 2nd & Waiakea, S. Hilo	2.00	cty	Gratis
S-3865	County of Hawaii	8/28/64- 8/27/2024	Utility easements at Panaewa, South Hilo	0.182	cty	Gratis
S-3867	Manuel Sousa	10/28/64-10/27/84	Lot 1-A, Paauilo-Pohakea Reserve Lots	4.54	past	45.00
S-3868	Kahua Ranch, Ltd.	10/28/64-10/27/84	Makiloa Gov't. Tract North Kohala, Hawaii	138.0	past	605.00
S-3869	Koei Ishimine	12/26/64-12/25/84	Lot 8, Puuepa-Kokoiki Homesteads, North Kohala, Hawaii	7.98	cane	120.00
S-3870	William E. Ontai	10/28/64-10/27/94	Lots 2, 3, 5, Papa Homesteads, South Kona, Hawaii	21.18	agr	180.00
S-3871	Waiakea Settlement, Y.M.C.A.	10/30/64-10/29/2019	Por. of Gov't. (Crown) Land of Waiakea, South Hilo, Hawaii	3.70	ele	2,540.00
S-3886	Frances B. Dennis, Margaret Payton & Bernard G. Kinney	1/20/65- 1/19/85	Por. of Lands of Lalamilo, Ouli & Waiaka I, Waimea, South Kohala	9,154.0	past	3,900.00
S-3887	Hilo Electric Light Co., Ltd.	1/20/65- 1/19/95	Por. of H.H.L. of Humuula, North Hilo, Hawaii	6.583	r/w	180.00
S-3888	Hawaiian Telephone Company	1/20/65- 1/19/2030	Lots 15 and 16, Blk. 39, Waiakea House Lots, South Hilo, Hawaii	.896	ind	2,130.00
S-3908	Tradewind Resorts, Inc.	4/12/65- 4/11/2030	Lot 13, Ocean View Lots, Waiakea, South Hilo, Hawaii	2.319	bus	15,000.00
S-3909	Alfred A. Silva	4/12/65- 4/11/85	Lot 15-B, Kaauhuhu Homesteads, North Kohala, Hawaii	6.41	agr	96.00
S-3916	County of Hawaii, Board of Water Supply	10/30/64-10/29/2029	Panaewa, Waiakea, S. Hilo	.204	cty	Gratis
S-3925	Hilo Electric Light Co., Ltd.	8/27/65- 8/26/2030	Lot 16, Kanoelehua Industrial Lots, South Hilo, Hawaii	4.00	r/w	7,566.00
S-3927	Hilo Electric Light Co., Ltd.	9/24/65- 9/23/95	Por. of Gov't. Land of Kaohe, Hamakua, Hawaii	.882	bus	120.00
S-3229	Sun Sun Lau, Ltd.	8/17/66- 8/16/2021	E. Corner of Kinoole & Wailo Sts., Waiakea, S. Hilo, Hawaii	3.273	bus	11,550.00
S-3930	William Thompson	10/18/65-10/17/85	Por. of Gov't. Land of Kalama 4, 5, Kahauola 1, South Kona, Hawaii	12.911	past	75.00
S-3931	Mildred de Lima	10/18/65-10/17/85	Lot 1317, Waiakea Homesteads, 3rd Series, South Hilo, Hawaii	66.54	past	195.00
S-3932	Paauhau Sugar Co.	10/18/65-10/17/85	Por. of Kalopa Homesteads, Hamakua, Hawaii	0.73	agr	25.00
S-3933	Roman Catholic Bishop of Honolulu	10/18/65-10/17/2030	Lots 116 & 117, Puako Beach Lots, Lalamilo, Waimea, S. Kohala, Hawaii	.643	ele	334.00
S-3934	Hubert M. Spivey	10/18/65-10/17/85	Por. of Waiakea Pasture Lands	119.694	past	360.00
S-3935	Roy S. & Martha S. Nagakura	10/18/65-10/17/2020	Lot 13, Waiakea House Lots, 1st Series, South Hilo, Hawaii	.307	bus	420.00
S-3936	Kazuo Komura	9/24/65- 9/23/2020	Lot 6, Panaewa Farm Lots Sub-division, 2nd Series, S. Hilo	10.243	agr	490.00
S-3938	Frank de Luz, Jr. & Virginia de Luz	11/ 8/65-11/ 7/85	Por. of Kapualei Gov't. Remainder, Kapualei, Hamakua, Hawaii	33.62	past	685.00
S-3948	Hamakua Mill Co.	12/20/65-12/19/90	Por. of Gov't. Land of Hauola, Hamakua, Hawaii	160.20	agr	2,322.00
S-3950	Kulana Foods, Ltd.	12/20/65-12/19/2020	Lot 820, Waiakea Homesteads, South Hilo, Hawaii	41.20	past	180.00
S-3954	Tokio Miyashiro	11/24/65-11/23/2029	Lot 16, Panaewa Farm Lots, 2nd Series, South Hilo, Hawaii	10.097	agr	485.00
S-3961	Melsan, Ltd.	4/15/66- 4/14/2031	Por. of Gov't. (Crown) Land of Waiakea Peninsula, S. Hilo, Hawaii	5.00	bus	32,670.00
S-3962	Eaton Magoon, Jr.	4/15/66- 4/14/96	Lots 1 & 2, Haukalua Homesteads 2nd, South Kona, Hawaii	14.19	agr	165.00
S-3966	Treasury Dept., U.S. Coast Guard	4/15/66- 4/14/2031	Hoopuloa, South Kona, Hawaii	1.19	fed	Gratis
S-3999	Divaco Cooperative	8/16/66- 8/15/2021	Lots 8 & 9, Hilo Industrial Development, Pohaku St. Section, Waiakea, S. Hilo, Hawaii 2-2-47	.918	ind	2,184.00
S-4000	Kohala Sugar Co.	8/19/66- 8/18/2031	Government Land at Puuepa 2 & Kokoiki, N. Kohala, Hawaii 5-5-05:1	.192	r/w	10.00
S-4001	W. H. Greenwell, Ltd.	8/16/66- 8/15/91	Onouli 2nd Government Tract, S. Kona, Hawaii 8-1-06	423.00	past	625.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4002	Hamakua Mill Co.	8/16/66- 8/15/91	Parcel A, Pohakuhaku-Kemau Government Remnants; Parcels B, C, D, E, & F, Opihilala-Kapualei Government Remnants; Government Remainder Kemau II Nakai Tract; Kaohe Government Remainder, Kaohe I; Lot 21-A, Pohakea Homestead, Makai Section, Opihilala & Paauilo, Hamakua, Hawaii 4-3-04, 05, 06, 07, 08, 09, 11.	168.611 52.721 221.332	cane waste	3,040.00
S-4003	Yee Hop, Ltd.	8/16/66- 8/15/91	Government Tract of Kipahoehe, Olelomoana 2nd, Opihiali 1, por. Kaohe 5 to Kolo & por. of Kaohe 4, S. Kona, Hawaii	1,270.000	past	3,150.00
S-4004	Christ Lutheran Church	8/16/66- 8/15/2031	Portion of Government Land of Waiakea, S. Hilo, Hawaii 2-4-01	3.101	ele	1,214.00
S-4005	John J. Andrade & Josephine Andrade	8/16/66- 8/15/91	Lot 11, Ahualoa Reserve Remnants, Ahualoa Homesteads, Ahualoa, Hawaii 4-5-11:6	13.496	past	91.00
S-4006	Phoebe L. Loo	8/16/66- 8/15/86	Portion of Government Land of Waipio Valley, Hamakua, Hawaii	11.600	agr	200.00
S-4018	First United Protestant Church of Hilo	10/ 6/66-10/ 5/2031	Lot 1, Portion of Government Land, Pihihouna, S. Hilo, Hawaii 2-3-27	3.572	ele	1,396.00
S-4019	Seven Seas, Inc.	10/ 6/66- 3/19/2016	Lots A & B, Hoolulu Busness Lots, Waiakea, S. Hilo, Hawaii 2-2-33	1.184	bus	2,602.00
S-4020	U. S. A.	8/16/66- 8/15/86	Makuu, Puna, Hawaii	33.058	fed	Gratis
S-4024	George Freitas	11/29/66-11/28/91	Puuepa 2—Kokoiki Government Tract, N. Kohala, Hawaii 5-5-05	74.340	past	1,200.00
S-4025	James Mallaby Greenwell, Robert Francis Greenwell & Harold Stanley Wright, Trustees for Palani Ranch Trust	11/29/66-11/28/91	Honuaula Tract No. 2, Honuaula, N. Kona, Hawaii 7-4-01:3	1,608.500	past	2,800.00
S-4026	Farmers Enterprise Corp.	11/29/66-11/28/2001	Lot 17, Panaewa Farm Lots, 2nd Series, Waiakea, S. Hilo, Hawaii 2-4-08	10.579	agr	510.00
S-4029	County of Hawaii	4/13/67- 4/12/2032	Kealakehe, N. Kona, Hawaii 7-4-08	34.688	cty	Gratis
S-4097	Shell Oil Co.	3/31/67- 3/30/2032	Portion of Government Land of Waiakea, S. Hilo, Hawaii 2-1-09	.169	r/w	267.00
S-4098	Yoshito Iwamoto	3/31/67- 3/30/2032	Portion of Waiohinu Government, Remnants at Waiohinu, Kau, Hawaii 9-5-02:40	.437	r/w	10.00
S-4099	Richard Smart	3/31/67- 3/20/2032	Across Portion of Kamuela Airport Hawaii 6-7-01	.006	r/w	1.00
S-5000	Tsugio Sakata	3/31/67- 3/30/2032	Portion of Government Land of Waimea, S. Kohala, Hawaii 6-5-04	.012	r/w	11.00
S-5001	Kiyomi Kobata & Fumie Kobata	3/31/67- 3/30/2022	Parcel A, Waiakea, S. Hilo, Hawaii 2-2-32	1.000	bus	4,262.00
S-5002	Aiea Dairy, Ltd.	3/31/67- 3/30/92	Lot 88, Kaapahu Homesteads, Mauka Section, Hamakua, Hawaii 4-4-13:11	20.500	past	250.00
S-5003	Frank A. Massow & Laura M. Massow	3/31/67- 3/30/92	Lots 1417 & 1516, Waiakea Homestead 3 Series, S. Hilo, Hawaii 2-4-06	68.670	past	330.00
S-5004	Sueichi & Yoshito Kawashima	3/31/67- 3/30/92	Lot 5A, Paauilo 2nd Series Homestead, Hamakua, Hawaii	3.040	agr	46.00
S-5005	Marjorie Corley	3/31/67- 3/30/2002	Portion of Government Land of Keonepoko-Nui, Puna, Hawaii 1-5-08	5.000	agr	65.00
S-5015	Motoshi Sako	5/19/67- 5/18/02	Portion of Government Land of Olaa, Puna, Hawaii 1-7-01	.466	bus	485.00
S-5017	Mary K. Phillips	5/19/67- 5/18/2002	Portion of Government Land of Lalamilo, Waimea, S. Kohala, Hawaii 6-6-04	.033	r/w	22.00
S-5018	Nalei, Inc.	5/19/67- 5/18/2032	Lots 11 & 11-A, Ocean View Lots, Waiakea, S. Hilo, Hawaii 2-1-05	1.115	bus	10,600.00
S-5019	Kohala Ditch Co., Ltd.	5/19/67-12/31/91	Surface waters from State owned Watersheds at Hamakua & N. Kohala, Hawaii	5,100.000	wtr	8,000.00
S-5020	Kohala Sugar Co.	5/19/67- 5/18/92	Awalua-Haena Government Tract at N. Kohala, Hawaii 5-6-01	185.550 8.800 14.480 22.250	cane road waste past	1,923.00
				231.080	total	



## SECOND LAND DISTRICT Islands of Maui, Molokai and Lanai

### GENERAL LEASES—SUMMARY, SECOND LAND DISTRICT

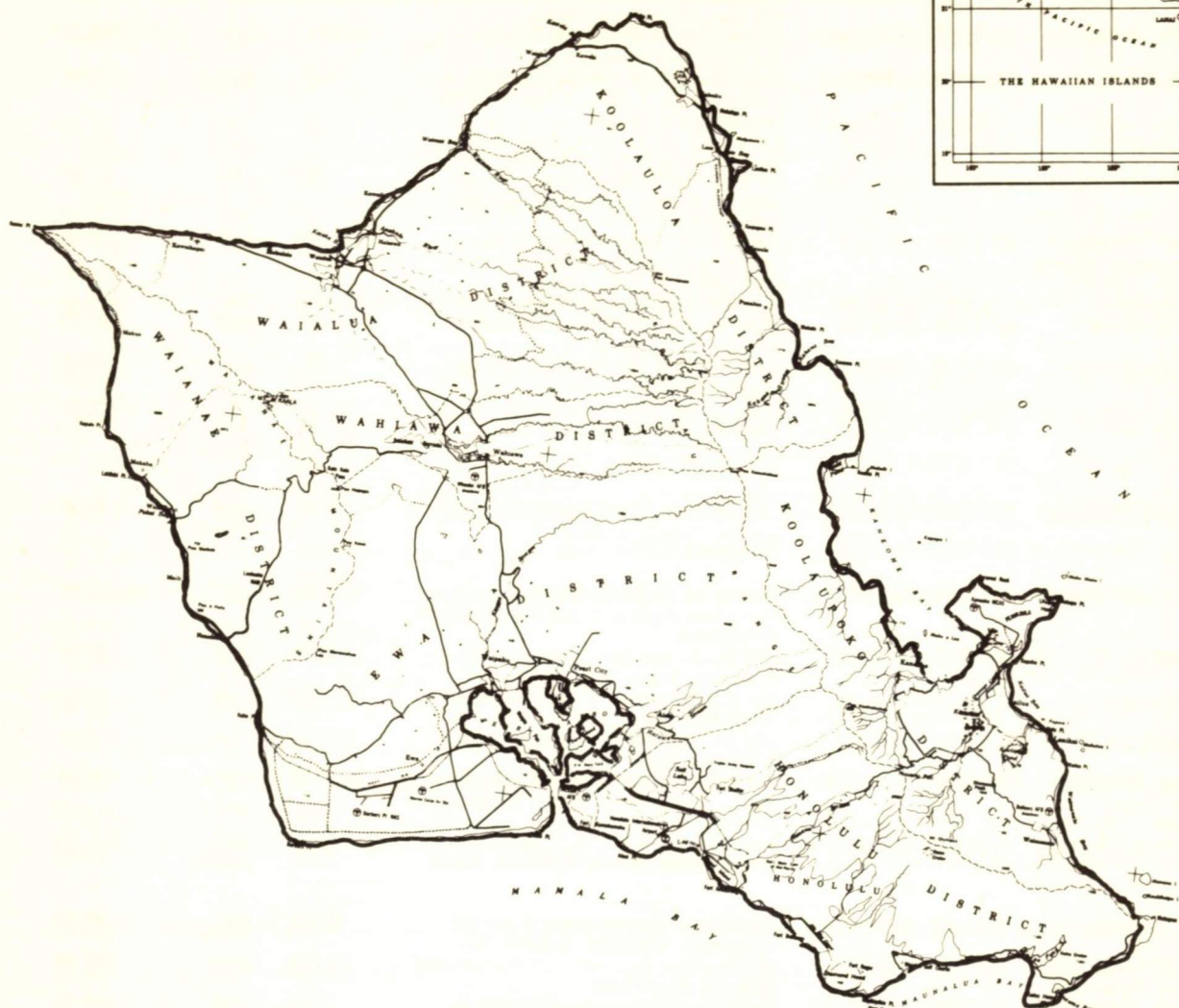
Use	Area (acres)	Annual Rental	No. Leases
Agriculture, General .....	1,258.998	\$ 35,791.00	22
Business .....	3.480	96.00	1
Sugar Cane .....	1,279.128	25,154.21	5
County .....	1.970	.....	2
Eleemosynary .....	51.600	316.00	5
Federal Government .....	11,219.786	600.00	5
Fishpond .....	.600	137.00	1
Industrial .....	1.000	1,500.00	1
Pasture .....	31,543.636	46,781.54	52
Recreational .....	7.742	150.00	1
Residential .....	9.410	100.00	1
Rights of Way .....	23.430	1,728.00	6
Water licenses, reservoirs, etc. ....	3,384.800	70,170.00	5
Waste Land .....	128.134	(a)	(a)
<b>TOTALS</b> .....	<b>48,913.714</b>	<b>\$ 182,523.75</b>	<b>107</b>

GENERAL LEASES AND LICENSES—SECOND LAND DISTRICT—JUNE 30, 1967

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3181	August Duvauchelle	2/ 1/47- 1/31/68	Panahaha Fish Pond, Molokai	3.80	wtr	40.00
3182	Stephen Perreira	2/ 1/47- 1/31/68	Waiakoa Homesteads, Kula, Maui	16.55	past	200.00
3184	Kaonoulu Ranch Co., Limited	11/ 1/47-10/11/68	Waiohulu-Keokea Pasture Land, Makawao	6,003.57	past	5,900.00
3222	Joseph Loo Akana	12/29/47-12/28/68	Lots 48, 50, 51, Waiohonu-Kakio Homesteads, Hana	25.08	past	25.00
3224	Tin Fook Tom	12/29/47-12/28/68	Kamaole, Kula	25.70	past	25.00
3233	Manuel F. Caires, Jr.	12/29/47-12/28/68	Mokupapa, Hamakualoa	53.33	past	75.00
3234	Violet C. King	12/29/47-12/28/68	Honopou, Hamakualoa	9.55	past	13.32
3235	John Pacheco Tavares	12/29/47-12/28/68	Honokala Gov't. Remnt., Hamakualoa	28.42	past	35.00
3236	Violet C. King	12/29/47-12/28/68	Honopou & Hoolawa	28.9	past	85.00
3238	Ulupalakua Ranch, Inc.	7/ 1/48- 6/30/69	Kualapa-Kalihi, Kanahena, Moho-pilo-Onau Honuaulo, Makawao	2,800.00	past	1,550.00
3289	Kaonoulu Ranch Co., Limited	5/10/49- 5/ 9/70	Lots 2-8, 10-15, 21, Waiohuli-Keokea Mauka Homestead Tract	381.67	past	2,300.00
3290	Hana Ranch Co., Ltd.	5/10/49- 5/ 9/70	Kaeleku, Hana, Maui	4.00	past	12.00
3291	John M. Fernandez	5/10/49- 5/ 9/70	Lots 29-A, 29-B, 29-E, Nahiku Homesteads, Koolau	21.88	past	15.00
3292	Kaupo Ranch, Ltd.	7/26/49- 7/25/70	Nakula, Kaupo	1,536.000	past	2,100.00
3293	Kaupo Ranch, Ltd.	5/10/49- 5/ 9/70	Lots 1, 2, 7, 8-A, 8-B, Kaupo Homesteads, Kaupo	261.600	past	26.16
3294	John A. Medeiros, Jr.	5/10/49- 5/ 9/70	Kawaiapapa & Wakiu, Hana	563.045	past	100.00
3295	Kaupo Ranch, Ltd.	5/10/49- 5/ 9/70	Government Lands in Kaupo	317.020	past	300.00
3299	Pioneer Mill Co., Ltd.	1/ 1/50-12/31/70	Sect. A & B, por. Gov't. Lands of Olowalu & Ukumehame, Lahaina	1,563.520	past	1,600.00
3301	Molokai Electric Co., Limited	9/14/49- 9/13/70	Kahanui and Naiwa	.425	r/w	1.00
3349	East Maui Irrigation Company, Limited	7/ 1/50- 6/30/71	Keanae, Koolau Forest Reserve	.....	wtr	\$ 10.00
3394	Kaupo Ranch, Ltd.	1/14/52- 1/13/73	Por. of Gov't. Lands of Pualaea	361.400	past	325.00
3396	Maui Factors, Inc.	8/20/65- 1/13/73	Kaniaula & Kalepa, Kaupo	4,858.431	past	6,740.00
3397	George Boteilho	4/11/62- 1/13/73	Por. of Gov't. Land of Ukumehame	7.350	past	15.00
3398	Exporters, Limited	1/14/52- 1/13/73	Lot O, Nahiku Homesteads, Koolau	1.840	past	12.00
3399	Wilbert P. Costa	1/14/52- 1/13/73	Par. 7 & 15, Kapohue & Puuiki, Hana	960.000	past	8,025.00
3400	Valentine Redo	10/23/64- 1/13/73	East Honomaele Kawela-Kaileku Gov't. Tract, Hana	175.000	past	101.00
3401	Anthony Tam	1/14/52- 1/13/73	Por. Gov't. Land of Wakiu, Hana	175.000	past	101.00
3403	Ernest E. Marks	1/14/52- 1/13/73	Por. of Gov't. Land of Honokalani	2.710	past	30.00
3404	Hiroshi Takatani	1/14/52- 1/13/73	Hana, Maui	2.000	agr	16.00
3405	Roy I. Akiyama & Ralph H. Iwamoto	11/21/65- 1/13/73	Parts 1, 2, 3, & 4 of Lot 1, Ualapue	2.000	agr	16.00
3406	West Maui Athletic Assn.	1/14/52- 1/13/73	Lots	9.410	res	100.00
3411	Pioneer Mill Co., Ltd.	1/14/52- 1/13/73	Por. of Gov't. Land of Maluaka, Honuaula, Makawao	200	ele	20.00
3488	Tatsuo Suehiro	6/28/54- 6/27/75	Gov't. Remnant off Front St., at Pakala, Lahaina	.....	r/w	100.00
3489	Manuel Souza et al, Tr. for Apostolic Faith Church of Honolulu	6/28/54- 6/27/75	Por. of Gov't. Land at Olowalu, Lahaina	.145	agr	16.00
3490	James Kekiwi	6/28/54- 6/27/69	Lot B, Alamihi, Lahaina	.26	ele	26.00
3491	Samuel Akina	6/28/54- 6/27/69	Lot A, Alamihi, Lahaina	.770	agr	26.00
3492	Mrs. Apolonio K. Day	6/28/54- 6/27/69	Lot 9-A, Wailua Homesteads, Koolau	0.44	agr	26.00
3493	Sam Akoi, Jr.	6/28/54- 6/27/69	Lot 36-A, Wailua Homesteads, Koolau	0.85	agr	45.00
3494	John Kaholokula	6/28/54- 6/27/69	Por. Gov't. Land of Wailua, makai S.E. side of Hana Belt Road, Hana	14.68	agr	36.00
3495	Joseph Young	6/28/54- 6/27/75	Gov't. lot at Peahi, Uaaoa and Kealiinui, Hamakualoa	6.25	agr	66.00
3496	Margaret Hueu	6/28/54- 6/27/75	Lot 36, Wailua Homesteads, Koolau	1.80	agr	44.00
3497	John Emmsley	6/28/54- 6/27/75	Lots 3 & 3-A, Keanae Homesteads, Keanae	1.77	past	24.00
3498	John Pacheco Tavares	6/28/54- 6/27/75	Gov't Land of East Papaaea, Hamakualoa	50.56	past	40.00
3499	Joseph & Williet E. Range	6/28/54- 6/27/75	Gov't. remnant in W. Hanawana, Hamakualoa	31.47	past	40.00
3500	Ah Chow Atai	6/28/54- 6/27/75	Gov't. remnant in W. Papaaea, Hamakualoa	79.10	past	100.00
3501	Mrs. Pearl Friel	6/28/54- 6/27/75	Lots 5 & 5-A, Honomanu Homesteads, Koolau	4.44	past	24.00
3505	East Maui Irrigation Co., Limited	7/ 1/55- 6/30/76	Por. Gov't. Land of East Ohia	56.44	past	50.00
3513	Ernest E. Marks	4/25/55- 4/24/76	Nahiku Water License, Hana & Makawao	.....	wtr	4,510.00
3514	Hana Ranch Co., Ltd.	4/25/55- 4/24/76	Lots 1, 2, 3, & 4, Ualapue Pasture	21.55	past	126.00
			Lots, Ualapue	26.07	past	78.00
			Lots 1 & 2, Papaaehau Remnants			

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3515	Frank Tavares Pacheco	4/25/55- 4/24/76	Por. Gov't. Remnant in Hanehoi, Hamakualoa	52.65	past	175.00
3516	Alfred Alu	4/25/55- 4/24/70	Por. Gov't. Land of Wailua-nui, Koolau, Hana	2.10	agr	12.00
3518	Decker G. McAllister	4/25/55- 4/24/70	Por. of Waiohonu Gov't. Remainder between sea coast & S.E. boundary of Waiohonu Houselots, Waiohonu	1.84	agr	24.00
3535	Maui Electric Co., Ltd.	1/16/56- 1/15/77	Por. Gov't. Land of Waiakoa and Papaanui	4.762	r/w	24.00
3536	Hawaiian Broadcasting	3/ 1/56- 2/28/77	Kolekole Hill, Papaanui, together with easement, Makawao	3.480	bus	96.00
3537	Wailuku Sugar Co.	1/16/56- 1/15/77	Por. of Land of Kahakulua, Kaanapali	136.40	past	300.00
3538	Harold P. Hustace	1/16/56- 1/15/71	Kaluaaha School Lot, Kaluaaha	5.063	agr	301.00
L-3578	East Maui Irrigation Company, Inc.	7/ 1/60- 6/30/81	Huelo License, Hamakualoa	.....	wtr	50,010.00
3588	Pioneer Mill Co., Ltd.	7/ 1/60- 12/31/89	Honokowai, Lahaina	1,124.60	cane	20,834.21
S-3636	Samuel & Mary Kaauamo	4/14/61- 4/13/76	Gov't. Remnant within Wailua - Homestead Tract, Wailua (Koolau)	1.25	agr	25.00
S-3637	William Neilson and Dorothy Stuart Neilson	4/14/61- 4/13/91	Por. of Gov't. Land of Kawaipapa, including Loko Waiohonu, Hana	.60	fpd	137.00
S-3638	Maui Pineapple Co., Limited	4/14/61- 4/13/81	Honokowai Mauka Gov't. Tract, Kaanapali, Lahaina	157.94	agr	3,800.00
S-3640	Ulupalakua Ranch, Inc.	4/28/61- 4/27/82	Lot 40, Nahiku Homesteads, Koolau	45.40	past	45.00
S-3681	Maui Pineapple Co., Limited	1/12/62- 1/11/82	Por. of Gov't. Land of Napili 4 & 5, on Honoapiilani Hwy., Lahaina	239.04	agr	\$ 1,642.00
S-3682	Haleakala Ranch Co.	1/12/62- 1/11/82	Por. of Gov't. Haleakala Tract, Makawao, Hamakuapoko	150.70	past	1,650.00
S-3683	Frank Cuelho, Jr., Philip R. Perry & Eugene K. Duvauchelle	3/12/62- 3/11/82	Por. of Gov't. Land of Pukoo, Molokai	148.24	past	300.00
S-3684	Maui County Council, Inc., Boy Scouts of Amer.	1/12/62- 1/11/82	Lots 12-A, 12-B-1, Kahakulua Homesteads, Wailuku (Kaanapali)	47.68	ele	60.00
S-3685	Wailuku Sugar Co.	1/12/62- 1/11/82	Lot 12-B-2, Kahakulua Homesteads, Wailuku, (Kaanapali)	194.51	past	1,825.00
S-3687	Wailuku Sugar Co.	1/12/62- 1/11/82	Por. of Ili of Kou, situate on main Gov't. Road at Waiehu, Wailuku	12.48	cane	735.00
S-3695	East Maui Irrigation Company, Limited	7/ 1/62- 6/30/86	Honomanu Water License, Koolau	3,381.00	wtr	15,510.00
S-3699	John M. Dee Souza	5/17/62- 5/16/82	Kolea Gov't. Land, Koolau, Hana	66.00	past	120.00
S-3700	Ulupalakua Ranch, Ltd.	3/19/62- 3/18/82	Gov't. Land of Honuaula, Kanaio and Kaunuaahano, Kaloi Gov't. Tract, incl. Lots 1-17, incl. of Kanaio Homesteads, Honuaula	8,370.00	past	5,000.00
S-3701	Haleakala Ranch Co.	3/18/62- 3/18/82	Por. of Nakula Mauka Gov't. Tract, Kaupo & Kahikinui	423.200	past	3,714.00
S-3714	County of Maui & U.S.A.	11/15/62-	Abandoned shop building at Firebreak Rd., Puunene Airport	962.725	fed	None
S-3717	West Maui AJA Veterans Club	11/ 5/62- 11/ 4/87	Lot 46, Wahikuli Houselots, 3rd Series, Lahaina	.46	ele	120.00
S-3730	County of Maui Civil Defense Agency	3/18/63- 3/17/73	Concrete storage buildings at old Puunene Airport, Puunene	.....	cty	.....
S-3741	U.S.A., FAA	7/ 1/64- 6/30/84	Kealalalua, Ukumehame	1.000	fed	Gratis
S-3749	U.S.A., Corps of Engineers (U.S. Army)	4/19/63- 4/18/2028	Papaanui, Makawao (Honuaula)	4.45	fed	Gratis
S-3817	Maui Young Men's Christian Association	11/24/64- 11/23/2019	Keanae, Hana (Koolau)	7.742	rec	150.00
S-3818	Dept. of Commerce, U.S. National Bureau of Standards	5/ 1/64- 4/30/67	Bldg. 99, Old Puunene Airport, Puunene	.011	fed	600.00
S-3820	Roy F. & L. A. Bodnar	4/ 8/64- 4/ 7/84	Gov't. Remnants, Parcels C, D, E, Puolua, Hamakualoa, Makawao	12.89	past	60.00
S-3821	Leonard Nakoa	4/ 8/64- 4/ 7/74	Lots 6, 9, 16, 23, 47, 48, 57, 58, Kahukulua Hmstds., Wailuku, Maui	1.539	agr	109.00
S-3822	Walter Teixeira	4/ 8/64- 4/ 7/84	Lot 1, Upper Kualopa Lots, Makawao	20.820	past	85.00
S-3823	Victoria Kanoa	4/ 8/64- 4/ 7/74	Por. of Gov't. (Crown) Land, Keanae & Gov't. Poalimas, Par. 1 & 2, Keanae, Koolau, adjacent to Lot 3, L. C. Appln. 240, Hana	1.497	agr	48.00
S-3824	Anthony DeCoite	4/ 8/64- 4/7/84	Parcels A & B, Paehala Gov't. Tract, Paehala, Hana	48.1	past	105.00
S-3825	County of Maui	5/22/64- 5/21/2029	Old Kipahulu School Lot, Kalena, Hana	1.97	cty	Gratis
S-3826	County of Maui Civil Defense Agency	11/25/64-11/24/74	Splinter Shelter Bldg., Facility No. 03659; Bldg. 2, Old Puunene Airport, Puunene	.....	cty	Gratis
S-3835	Pioneer Mill Co., Ltd.	6/ 2/64- 6/ 1/84	Honokowai, Kaanapali, Wahikuli, Lahainaluna, Lahaina	17.901	r/w	1,500.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3857	Leslie W. & Coila I. Eade	8/17/64- 8/16/99	Papaauhau, between Hana Hwy. & the Sea, Papaahau, Hana	5.20	agr	590.00
S-3918	University of Hawaii	5/28/65- 5/27/2030	Parcel 1, Kealahou 1 & 2 and Waiakoa, Makawao, Kula	20.674	agr	Gratis
S-3920	Joseph Young	7/20/65- 7/19/85	Lots 12-A, 13-A, 26-A, 32, 32-A & Parcel 54 of T.M.K. 1-1-5, Wailua Homesteads, Hana	5.93	agr	177.00
S-3922	Cecilia Kaauamo	7/20/65- 7/19/85	Lots 2-A, 18-A, 19-A, 21-A & 22-A, Wailua Homesteads, Koolau, Hana	2.99	agr	80.00
S-3923	Russell & Gay Baldwin Lloyd	7/20/65- 7/19/2030	Non-exclusive easement for roadway 20-ft. wide, Kahului Airport, Kahului	.166	r/w	75.00
S-3947	George W. Murphy, dba Puuohoku Ranch	6/ 1/66- 5/31/86	Por. Gov't. Land of Honouliwai, makai of Molokai Forest Reserve, Molokai	577.000	past	1,851.00
S-3953	U.S.A. (Navy)	11/ 4/65- 11/ 3/70	Por. Molokai Forest Reserve	10,251.600	fed	Gratis
S-3964	Charles H. Tuck	6/ 1/66- 5/31/86	Lots 28, 29, 30, Waiohonu-Kakio Homesteads, Hana	35.85	past	90.00
S-3965	Samuel Kaauamo	6/ 1/66- 5/31/86	Lots 17-A & 46, Wailua Homesteads, Wailua, Hana	2.63	agr	34.00
S-3984	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lot C, Lahainaluna School Lands, Lahaina, Maui 4-6-18:4	69.400 25.100 78.100	cane past waste	1,765.00
S-3985	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lots A-1 & A-3, Lahainaluna School Lands, Lahaina, Maui 4-6-18:6 & 10	162.600 37.840 42.759	cane waste	950.00
S-3986	Molokai Farm, Inc.	7/11/66- 7/10/2001	Parcel A, Molokai Farm Lots, Hoolehua-Apana 2 and Paalu-Apana 2, Molokai	80.599 365.000	agr	28,000.00
S-4013	Obed Sniffen	10/17/66-10/16/86	Lot 9, Kahakuloa Homesteads, Wailuku, Maui 3-1-01	56.010	past	45.00
S-4014	David Nobriga	10/17/66-10/16/86	Lot 10, Kahakuloa Homesteads, Wailuku, Maui 3-1-01	78.600	past	60.00
S-4015	Joe Castro, Jr.	10/17/66-10/16/86	Lot 11, Kahakuloa Homesteads, Wailuku, Maui 3-1-01	92.800	past	175.00
S-4016	Erik Krag, dba Hana Tropical Fruit Plantation	10/17/66-10/16/2001	Portion of Government Land, Kawaiapapa and Wakiu, Hana, Maui 1-3-04	421.170	agr	700.00
S-5008	Pioneer Mill Co., Ltd.	5/23/67- 5/22/87	Portion of 4-6-18:13, Lahainaluna School Lands, Lahaina, Maui	34.808 7.275	cane waste	870.00
S-5009	Kilolani Congregational Church	5/23/67- 5/22/2032	Portion of Government Land of Waiohuli, Wailuku, Maui 3-9-01	42.083 3.000	ele	90.00
S-5010	Edward B. Perreira & Sylvia M. Perreira	5/23/67- 5/22/87	Wailua-Nui Government Remainder, Hana, Maui 1-1-08	59.910	past	150.00
S-5011	Gordon D. MacKenzie	5/23/67- 5/22/2032	Portion of Government Land of Honouliwai, Molokai 5-8-03	.176	r/w	28.00
S-5012	Kenneth K. Otani	5/23/67- 5/22/82	Portion of Kahului Airport, Kahului, Maui 3-8-01	1.000	indus	1,500.00



## THIRD LAND DISTRICT Island of Oahu

### GENERAL LEASES—SUMMARY, THIRD LAND DISTRICT

Use	Area (acres)	Annual Rental	No. Leases
Agriculture, General .....	630.913	\$ 32,049.95	57
Business .....	156.574	89,491.00	14
Eleemosynary .....	125.461	12,311.00	5
Federal Government .....	7,262.644	1.00	7
Industrial .....	108.728	65,436.00	5
Pasture .....	635.685	3,031.00	7
Pineapple .....	578.265	17,119.45	1
Recreational .....	64.800	150.00	1
Residential .....	1.470	900.00	4
Rights of Way .....	75.123	2,826.35	44
Water licenses, reservoirs, etc. ....	4,620.130	31,012.00	33
<b>TOTALS .....</b>	<b>14,259.793</b>	<b>\$ 254,327.75</b>	<b>178</b>

## GENERAL LEASES AND LICENSES—THIRD LAND DISTRICT—JUNE 30, 1967

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
L- 810	Waiahole Water Co., Ltd.	5/27/16- 5/27/76	Waiahole, Koolaupoko		wtr	\$15,000.00
L-1755	Hawaiian Electric Co., Ltd.	4/ 7/26- Indefinite	Auwaiolimu & Kewalo	.21	r/w	1.00
L-1756	Hawaiian Electric Co., Ltd.	6/21/21- Indefinite	Waialae	1.02	r/w	12.00
F-2955	Hawaiian Electric Co., Ltd.	7/20/42- 5/24/98	Schofield Barracks	.548	fed	1.00
3120	Claus & Mary Roberts	12/30/46-12/29/67	Kamoiili, Waiaka Lots 35, 36 & 37	.210	bus	1,149.00
L-3153	Hawaiian Telephone Co.	8/ 6/46- 8/ 5/67	Pearl City, Ewa	.031	bus	75.00
3178	Hawaiian Telephone	12/28/46-12/27/67	Waimanalo, Koolaupoko	.06	bus	250.00
3179	Lanakila Crafts, Inc.	3/ 8/60-12/27/67	Lanakila Ave., Kapalama, Honolulu	.73	ele	250.00
3180	Andres Domingo Carino	12/28/46-12/27/67	Kawaiiki (Lanakila), Honolulu	.29	res	180.00
3197	Antone F. Pereira	2/10/47- 2/ 9/68	Lualualei, Waianae	.40	res	100.00
3271	(Mrs.) Edythe M. Turner	9/30/48- 9/29/69	Aiea Hts. Hse. Lots (Lot K), Ewa	3.143	past	15.00
L-3315	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Makiki, Honolulu	.34	r/w	12.00
L-3316	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Kawailoa, Kailua, Honolulu	.54	r/w	12.00
L-3317	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Waimanalo, Koolaupoko	9.08	r/w	12.00
L-3318	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Waianae & Lualualei	1.37	r/w	17.00
L-3319	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Nanakuli & Lualualei	2.31	r/w	12.00
L-3352	Castle & Cooke, Inc.	1/ 1/51-12/31/72	Wahiawa	4,620.00	wtr	16,000.00
L-3383	Hawaiian Electric Co. Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Aiea	.08	r/w	12.00
L-3384	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Honolulu	1.03	r/w	31.00
L-3385	Hawaiian Electric Co., Ltd.	4/ 4/51- 4/ 3/72	Keaahala, Kaneohe, Koolaupoko	1.02	r/w	\$ 12.00
3386	Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Nanakuli, Waianae	.90	bus	100.00
L-3387	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Waimanalo, Koolaupoko	2.28	r/w	32.00
3388	Abel S. Santos	1/ 1/52-12/31/73	Kaneohe, Koolaupoko	89.50	agr	770.00
3389	Oahu Sugar Co., Ltd.	4/ 4/51- 4/ 3/72	Waimalu, Kaumiumi, Ewa	7.613	past	106.00
3390	(Mrs.) Apolonia Rose	7/ 1/51- 8/31/72	Aiea, Ewa	.60	res	540.00
3391	Harold Chung-Hoon	4/ 4/51- 4/ 3/72	Keaau, Waianae	476.91	past	300.00
3429	Hawaiian Telephone Company	6/ 6/52- 6/ 5/73	Kalawahine & Opu (Tantalus), Honolulu	2.37	bus	200.00
L-3430	Hawaiian Cement Corp.	1/28/60- 6/ 5/73	Lualualei, Waianae	17.89	ind	100.00
3459	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	12/ 7/53-12/ 6/74	Pupukea-Paumalu, Koolauloa	.03	r/w	12.00
3462	Kahuku Plantation Company	12/ 7/53-12/ 6/68	Makaua, Koolauloa	3.77	agr	100.00
3465	Hawaiian Trust Co. Ltd.	12/ 7/53-12/ 6/74	Hotel St., Honolulu	.09	bus	12.00
3466	Kota Nakata	12/ 7/53-12/ 6/68	Lualualei, Waianae	.686	agr	9.10
3469	Doty J. K. Pekelo	4/ 5/54- 4/ 4/75	Waianae-Kai	97.39	past	275.00
3470	Wilbert H. S. & Flora K. Choi	4/ 5/54- 4/ 4/75	Makiki, Honolulu	1.29	agr	800.00
L-3471	Hawaiian Bitumuls & Paving Co., Ltd.	1/16/62- 4/ 4/75	Kaena, Waialua	76.376	ind	76.00
L-3502	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	10/27/54-10/26/75	Kewalo & Kalawahine, Honolulu	.129	r/w	30.00
L-3523	Glenn Masuo & Harriet Mieke Masunaga	6/30/55- 6/29/76	Makiki, Honolulu	.10	r/w	24.00
L-3524	Union Oil Co. of Calif.	6/30/55- 6/29/76	Pacific St., Iwilei, Honolulu	.05	r/w	24.00
3525	Agostino Fasone	6/30/55- 6/29/70	Auwaiolimu, Pauoa Valley, Honolulu	1.412	agr	45.00
3526	Nancy W. Fisher	6/30/55- 6/29/70	Waianae Valley, Waianae	2.261	agr	25.00
L-3527	Hawaiian Electric Co., Ltd.	7/ 7/55- 7/ 6/76	Kewalo & Kalawahine, Honolulu	0.627	r/w	24.00
3539	Roswell M. Towill	2/21/56- 2/20/77	Kaneohe Bay, Kahaluu, Koolaupoko	.18	res	80.00
3540	California Packing Corporation	7/ 1/57- 6/30/72	Upper Puohala, Waikele, Ewa	578.265	pine	17,119.45
3541	Kahuku Plantation Co.	2/21/56- 2/20/71	Waialea, Koolauloa	5.861	agr	175.85

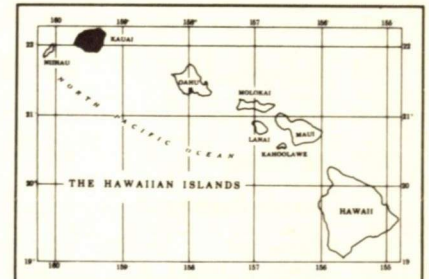
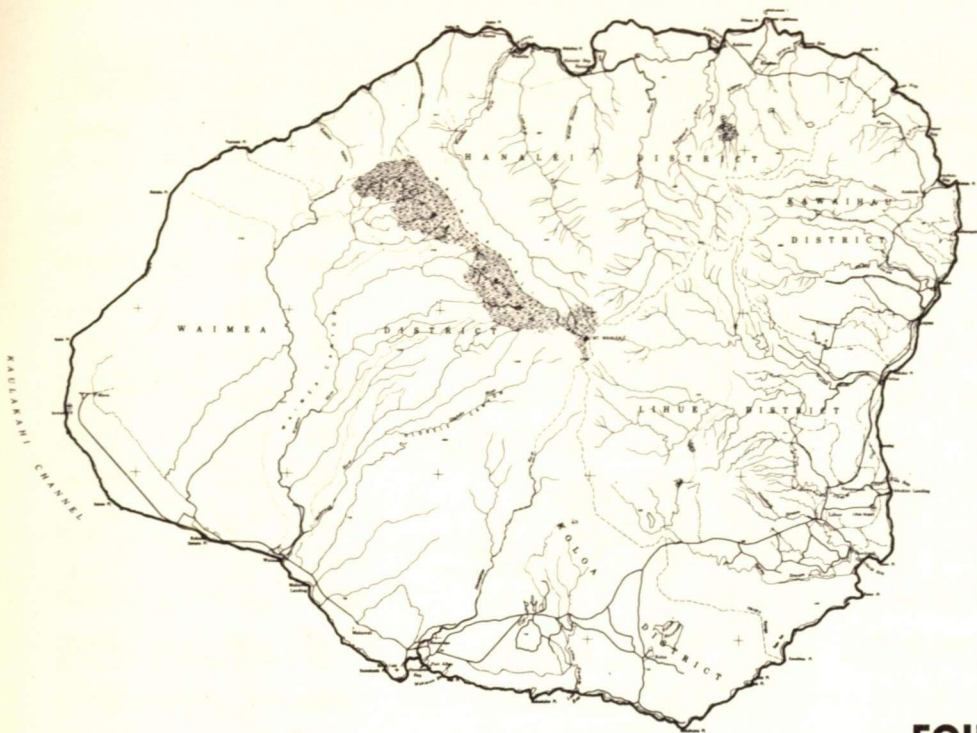
No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3542	Edmund F. Lai	7/ 1/64- 2/20/71	Par. A-2, Waialea & Pahipahialua, Koolauloa	20.828	agr	860.00
3543	Edmund F. Lai	7/ 1/64- 2/20/71	Par. B-2, Waialea & Pahipahialua, Koolauloa	11.582	agr	755.00
3544	The Eye of the Pacific, Incorporated	2/21/56- 2/20/77	Lot 12, Piliamoo Hse. Lots & Remnant, Moiliili, Honolulu	.55	ele	60.00
3545	Clarence Chuck Tan	3/27/63- 2/20/77	Lot CC-2-B, Kuwili, Kapalama-Kai, Honolulu	7.408	ind	55,260.00
L-3562	Hawaiian Electric Co., Ltd.	6/18/56- 6/17/77	Piliamoo, Kanewai, & Waahila, Honolulu		r/w	24.00
3563	Castle & Cooke, Inc.	8/ 1/56- 7/31/77	Wahiawa, Waialua	.13	wtr	12.00
3564	Advertiser Publishing Co., Ltd. & KULA Broadcasting Corp.	8/27/56- 8/26/77	Kaakaukukui, Honolulu	.08	bus	1,400.00
3565	GEM International, Inc.	10/26/60- 8/26/77	Kuwili, Honolulu	3.075	ind	9,000.00
S-3689	Ornellas, Inc.	10/15/63- 3/31/72	Nimitz Highway between Maunakea & Smith Sts., Honolulu	.133	bus	8,400.00
S-3702	Honolulu Gas Co., Ltd.	3/21/62- 3/20/92	Wilikina Dr., Wahiawa	.051	r/w	220.00
S-3709	The Oceanics Foundation	5/ 2/63-10/20/2027	Waimanalo, Koolaupoko	118.0	ele	12,000.00
S-3710	University of Hawaii	9/ 1/62- 8/31/67	Waimanalo, Koolaupoko	119.45	agr	
S-3725	Larry Silva	1/14/63- 1/13/2028	Waianae	.082	r/w	20.00
S-3726	Honolulu Star Bulletin, Inc.	1/14/63- 1/13/83	Ala Wai Blvd., Kalia, Waikiki, Honolulu	2.00	r/w	130.00
S-3727	Roman Rivera & Alfonso Remiscal Nacapoy	11/17/64- 1/13/2028	Kaluapalena, Kalihi, Honolulu	.154	r/w	19.20
S-3806	Honolulu Redevelopment Agency, City and County of Honolulu	4/ 1/64- 3/31/74	Lot B, Iwilei Gov't. Lots, Honolulu	3.00	bus	1.00
S-3808	City and County of Honolulu	6/17/64- 6/16/2029	Pouhala & Ulumoku, Waikele, Ewa	45.81	r/w	1.00
S-3809	Canadian Overseas Telecommunications Corporation	4/ 2/64- 4/ 1/2029	Keawaula, Waianae	3.979	ind	\$ 1,000.00
S-3811	Consolidated Amusement Co., Ltd.	4/ 2/64- 4/ 1/2029	Kalauao, Ewa	.015	r/w	125.00
S-3813	U.S.A. (Navy)	7/ 1/64- 6/30/79	Gov't. Lands at Nanakuli Lualualei, Waianae	.397	r/w	1.00
S-3845	U.S.A. (Army)	8/17/64- 8/16/2029	Kaena Point Tracking Station	138.07	fed	Gratis
S-3846	U.S.A. (Army)	8/17/64- 8/16/2029	Kawailoa Training Area	4,390.0	fed	Gratis
S-3847	U.S.A. (Army)	8/17/64- 8/16/2029	Kapalama Military Reservation, Tract C	11.36	fed	Gratis
S-3848	U.S.A. (Army)	8/17/64- 8/16/2029	Makua Training Area, Parcels A & B	1,515.121	fed	Gratis
S-3850	U.S.A. (Army)	8/17/64- 8/16/2029	Kahuku Training Area, Kahuku	1,149.72	fed	Gratis
S-3851	U.S.A. (Army)	8/17/64- 8/16/2029	Lualualei Maneuver Area, Lualualei	57.825	fed	Gratis
S-3864	University of Hawaii	7/ 1/65- 6/30/2030	Kaakaukukui, Honolulu	6.071	ele	1.00
S-3896	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead easement over por. E. O. 1346, Kapalama, Honolulu	.115	r/w	75.00
S-3897	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	25-ft. wide easement for overhead electric transmission line, over and across H.H.L., Nanakuli	3.79	r/w	84.00
S-3898	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Underground easement, Makiki Forest Ridge Lots, Honolulu	.079	r/w	50.00
S-3899	First National Bank of Hawaii	3/11/65- 3/10/2030	Lots 25 & 25-A, Auwaiolimu Lots, Honolulu	.299	r/w	600.00
S-3900	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead easement at Kuwili & Kapalama, Honolulu	.118	r/w	73.00
S-3901	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead & underground easement for electric transmission line, Mao Lane, Honolulu	.006	r/w	5.00
S-3902	Oahu Sugar Company	3/11/65- 3/10/2005	Pipeline & utility easement at Waipahu, Waikele	.066	r/w	70.40
S-3903	Hawaiian Telephone Company	3/11/65- 3/10/2030	Diamond Head Tunnel, easement for communication cable & communication center, Kapahulu, Honolulu	.081	r/w	1.00
S-3904	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	Overhead & underground easement across Kalihi Waena School, Honolulu	.418	r/w	205.00
S-3905	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	Overhead easement at Laelae, Kalihi Valley, Honolulu	.365	r/w	50.00
S-3906	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	Easement for electric transmission line, Kapalama Bascule Bridge, Mokauea, Kalihi, Honolulu	.481	r/w	200.00
S-3907	Oahu Sugar Company	3/11/65- 3/10/2030	Pipeline easement, Waikele Stream, Waipahu, Ewa	.134	r/w	16.75

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3915	Francis I. Tsuzuki & Morio Omori	6/21/65- 6/20/2030	Kewalo, Honolulu	.043	r/w	78.00
S-3924	U.S.A., Army Engineer Division, Pacific Ocean	12/ 1/65- Indefinite	10x12 ft. room at Battery Harlow, Fort Ruger, Honolulu	.003	fed	1.00
S-3951	Aloha Council, Boy Scouts of America	3/ 1/66- 3/10/2021	Parcels A & B, Por. of Gov't. (Crown) Land of Pupukea, Koolauloa	64.800	rec	150.00
S-3967	City and County of Honolulu	4/15/66- 4/14/71	Lualualei, Waianae		r/w	Gratis
S-3978	Ralph Ajifu & Richard Azama	6/27/66- 6/26/2031	Kaluapuhi-Waikalua Homesteads, Kaneohe	.168	r/w	30.00
S-3979	Halcyon Lee Song & Agnes S. Field	6/27/66- 6/26/2031	Por. Gov't. Land, Opu (Watershed Forest Reserve, Round Top Drive, Tantalus)	.058	r/w	75.00
S-3980	Esther K. Arinaga	6/27/66- 6/26/2031	Makiki Ditch	.021	r/w	36.00
S-3981	Roy H. Aoki & June S. Aoki	6/27/66- 6/26/2031	Por. of Gov't. Land, Pauoa Valley	.012	r/w	1.00
S-3982	Castle & Cooke, Inc.	6/27/66- 6/26/2031	Kuwili, Kapalama-Kai	.091	r/w	246.00
S-3983	David Ap Lew	6/27/66- 6/26/2021	Por. Old Waialea Boy's Home, Koolauloa	12.854	bus	6,324.00
S-3996	Y. Hata & Co., Ltd.	8/ 5/66- 8/ 4/2021	Parcel, Food Distribution Center, 1st Increment, Kaakaukui, Honolulu, Oahu 2-1-58	4.146	bus	48,750.00
S-3997	Honolulu Community Theater	8/18/66- 8/17/2016	Portion of Block 56, Kaimuki Tract Kapahulu, Honolulu, Oahu 3-2-30	2.735	bus	6,000.00
S-4027	Communications Satellite Corporation	12/28/66-12/27/2031	Mount Kaala, Mokuleia, Portion of Mokuleia Forest Reserve, Wailua, Oahu 6-7-03	.106	bus	330.00
S-4095	Olomana Golf Links, Inc.	5/ 4/67- 5/ 3/2007	Portion of Government Land of Waimanalo, Koolaupoko, Oahu 4-1-13	129.859	bus	16,500.00
S-5006	University of Hawaii	6/ 1/67- 5/31/2032	Mount Kaala, Mokuleia Forest Reserve, Wailua, Oahu 6-7-03	.110	ele	Gratis
S-5013	First Church of Christ, Scientist	5/25/67- 5/24/2032	Portion of School Grant 28, Apana 1, Board of Education, Honolulu, Oahu 2-4-08	.050	r/w	110.00

#### WAIMANALO AGRICULTURAL LEASES

S-3753	Sidney U. Goo	12/ 2/63- 12/ 1/83	Lot 2, Waimanalo Agricultural Subdivision, Koolaupoko	3.429	agr	355.00
S-3754	Chozen Kanetake	12/ 2/63-12/ 1/83	Lot 3, Waimanalo Agricultural Subdivision, Koolaupoko	4.147	agr	360.00
S-3755	Ronald H. Deisseroth	12/ 2/63-12/ 1/83	Lot 4, Waimanalo Agricultural Subdivision, Koolaupoko	5.106	agr	350.00
S-3756	James Suenaga	12/ 2/63-12/ 1/83	Lot 5, Waimanalo Agricultural Subdivision, Koolaupoko	5.193	agr	290.00
S-3757	Raymond M. & Lily T. Kam	12/ 2/63-12/ 1/83	Lot 9, Waimanalo Agricultural Subdivision, Koolaupoko	3.742	agr	\$ 300.00
S-3758	Kazuto Yamada	12/ 2/63-12/ 1/83	Lot 10, Waimanalo Agricultural Subdivision, Koolaupoko	4.094	agr	350.00
S-3759	Kawahara Nursery & Landscaping Co., Ltd.	12/ 2/63-12/ 1/83	Lot 11, Waimanalo Agricultural Subdivision, Koolaupoko	4.486	agr	375.00
S-3760	Kaname & Ethel H. Tanaka	12/ 2/63-12/ 1/83	Lot 12, Waimanalo Agricultural Subdivision, Koolaupoko	4.635	agr	390.00
S-3761	Philip P. Minn Plant Nursery	2/ 2/64- 2/ 1/84	Lot 13, Waimanalo Agricultural Subdivision, Koolaupoko	4.014	agr	360.00
S-3762	Henry Hiroshi Miyamoto	2/ 2/64- 2/ 1/84	Lot 14, Waimanalo Agricultural Subdivision, Koolaupoko	5.137	agr	420.00
S-3763	John G. Kilbey & Charles K. Baker	12/ 2/63-12/ 1/83	Lot 15, Waimanalo Agricultural Subdivision, Koolaupoko	5.256	agr	410.00
S-3764	Evergreen Nurseries	12/ 2/63-12/ 1/83	Lot 16, Waimanalo Agricultural Subdivision, Koolaupoko	3.228	agr	295.00
S-3765	Harry N. Okabe & Irene Okabe	12/ 2/63-12/ 1/83	Lot 25, Waimanalo Agricultural Subdivision, Koolaupoko	7.787	agr	560.00
S-3766	Rodney H. & Iris T. Fukui	12/ 2/63-12/ 1/83	Lot 26, Waimanalo Agricultural Subdivision, Koolaupoko	7.001	agr	725.00
S-3767	Ronald Lindsey	12/ 2/63-12/ 1/83	Lot 27, Waimanalo Agricultural Subdivision, Koolaupoko	7.195	agr	515.00
S-3768	Stanley S. Kawabata	12/ 2/63-12/ 1/83	Lot 28, Waimanalo Agricultural Subdivision, Koolaupoko	6.836	agr	515.00
S-3769	Mun On and Rosalind K. Chang	12/ 2/63-12/ 1/83	Lot 29, Waimanalo Agricultural Subdivision, Koolaupoko	5.515	agr	540.00
S-3770	Hiroshi & Sallie Ikene	12/ 2/63-12/ 1/83	Lot 30, Waimanalo Agricultural Subdivision, Koolaupoko	5.794	agr	430.00
S-3771	Samuel L. W. Kapahua	12/ 2/63-12/ 1/83	Lot 31, Waimanalo Agricultural Subdivision, Koolaupoko	10.005	agr	1,000.00
S-3772	Walter S. S. Zane & Florence F. Zane	12/ 2/63-12/ 1/83	Lot 32, Waimanalo Agricultural Subdivision, Koolaupoko	6.521	agr	1,300.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3773	Lloyd W. Martin	12/ 2/63-12/ 1/83	Lot 34, Waimanalo Agricultural Subdivision, Koolaupoko	9.686	agr	650.00
S-3774	Katsumi Mashita	12/ 2/63-12/ 1/83	Lot 35, Waimanalo Agricultural Subdivision, Koolaupoko	8.541	agr	585.00
S-3775	Mieko Antoku	12/ 2/63-12/ 1/83	Lot 36, Waimanalo Agricultural Subdivision, Koolaupoko	8.860	agr	600.00
S-3776	James F. Ching	12/ 2/63-12/ 1/83	Lot 37, Waimanalo Agricultural Subdivision, Koolaupoko	8.513	agr	490.00
S-3777	Raymond Y. C. Ching	12/ 2/63-12/ 1/83	Lot 39, Waimanalo Agricultural Subdivision, Koolaupoko	7.883	agr	515.00
S-3778	Melvin Y. S. Chang	12/ 2/63-12/ 1/83	Lot 40, Waimanalo Agricultural Subdivision, Koolaupoko	5.686	agr	420.00
S-3779	James A. Nakano & Takashi Ishihara	10/13/64-12/ 4/83	Lot 41, Waimanalo Agricultural Subdivision, Koolaupoko	6.032	agr	435.00
S-3780	Marion Freitas & Chiharu Yoneda	12/ 2/63-12/ 1/83	Lot 46, Waimanalo Agricultural Subdivision, Koolaupoko	6.705	agr	300.00
S-3782	Peter A. & Gertrude Pak Chong	12/ 2/63-12/ 1/83	Lot 38, Waimanalo Agricultural Subdivision, Koolaupoko	7.136	agr	550.00
S-3783	Henry, Joseph, & Theresa Castillo	2/ 5/64- 2/ 4/84	Lot 1, Waimanalo Agricultural Subdivision, Koolaupoko	11.092	past	705.00
S-3784	Edward D. & Carroll Sultan	12/ 2/63-12/ 1/83	Lot 22, Waimanalo Agricultural Subdivision, Koolaupoko	19.481	past	730.00
S-3786	George & Hazel K. Ilae	12/ 5/63-12/ 4/93	Lot 6, Waimanalo Agricultural Subdivision, Koolaupoko	4.630	agr	500.00
S-3787	William N. K. & Mary Y. Y. Kamai	12/ 2/63-12/ 1/93	Lot 7, Waimanalo Agricultural Subdivision, Koolaupoko	3.536	agr	245.00
S-3789	Shirley May Sumic	12/ 5/63-12/ 4/93	Lot 42, Waimanalo Agricultural Subdivision, Koolaupoko	1.146	agr	380.00
S-3792	Elizabeth Heavey & Eleanor Kaleimomi McLellan	12/ 5/63-12/ 4/93	Lot 45, Waimanalo Agricultural Subdivision, Koolaupoko	1.100	agr	380.00
S-3793	Robert L. & Anna K. Ham	12/ 2/63-12/ 1/93	Lot 18-A, Waimanalo Agricultural Subdivision, Koolaupoko	6.490	agr	950.00
S-3794	Arthur H. Zsupnik, dba Art's Liquidation Co.	12/ 2/63-12/ 1/93	Lot 18-B, Waimanalo Agricultural Subdivision, Koolaupoko	5.744	agr	700.00
S-3838	Maurice J. Sullivan	6/22/64- 6/21/94	Lots 17, 19, 20 & 21, Waimanalo Subdivision, Koolaupoko	62.704	agr	3,400.00
S-3854	William I. & Ann M. Wilson	8/10/64- 8/ 9/84	Lot 47, Waimanalo Agricultural Subdivision, Koolaupoko	5.492	agr	550.00
S-3856	Fred M. & Toshiko Nakayama	8/10/64- 8/ 9/84	Lot 9, Waimanalo Farm Lots, Koolaupoko	9.474	agr	570.00
S-3858	Warren Q. K. Yee & Ellen S. P. Yee	8/10/64- 8/ 9/84	Lot 8, Waimanalo Agricultural Subdivision, Koolaupoko	3.662	agr	570.00
S-3859	Harry N. & Irene M. Okabe	8/10/64- 8/ 9/84	Lots 56-A & 56-B, Waimanalo Farm Lots, Koolaupoko	8.928	agr	580.00
S-3860	Charles F. W. & Jean K. Chong	8/13/64- 8/12/84	Lot 31, Waimanalo Farm Lots, Koolaupoko	9.862	agr	640.00
S-3861	John T. & Charline P. MacKillop	8/10/64- 8/ 9/84	Lot 33, Waimanalo Agricultural Subdivision, Koolaupoko	20.056	past	900.00
S-4007	B & G Enterprises	9/12/66- 9/11/86	Waimanalo Agricultural Subdivision, Lots 23 & 24, Koolaupoko, Oahu, 4-1-27	34.438	agr	1,000.00
S-4008	Walter F. Chong & Evelyn Z. Chong	9/12/66- 9/11/86	Lot 38, Waimanalo Agricultural Subdivision, 4-1-27:14	20.395	agr	960.00
S-4009	Roy M. Shiraki & Yukio Sumida dba Arista	9/12/66- 9/11/86	Lot 28, Waimanalo Farm Lots Subdivision, Koolaupoko, Oahu, 4-1-24:54	9.454	agr	800.00
S-4010	Joseph F. Decoite	9/12/66- 9/11/86	Lot 67, Waimanalo Farm Lots Subdivision, Koolaupoko, Oahu 4-1-08	7.021	agr	1,030.00
S-4011	Thomas R. Beveridge & Matsuko Beveridge	9/12/66- 9/11/96	Lot 43, Waimanalo Agricultural Subdivision, Koolaupoko, Oahu 4-1-08	1.032	agr	420.00
S-4093	Victor & Harriet Towne Gega	3/20/67- 3/19/97	Lot 44, Waimanalo Agricultural Subdivision, Koolaupoko, Oahu 4-1-08	1.002	agr	450.00



## FOURTH LAND DISTRICT Island of Kauai

### GENERAL LEASES—SUMMARY, FOURTH LAND DISTRICT

Use	Area (acres)	Annual Rental	No. Leases
Agriculture, General .....	438.00	\$ 14,196.20	54
Business .....	43.835	78,323.00	19
Sugar Cane .....	16,811.550	367,315.29	6
County .....	3.151	.....	1
Eleemosynary .....	1.854	240.00	2
Federal Government .....	675.015	601.00	4
Industrial .....	6.980	5,300.00	2
Pasture .....	11,780.399	17,584.23	43
Pineapple .....	86.760	2,349.63	2
Recreational .....	22.257	1,805.00	3
Residential .....	1.570	976.00	4
Rights of Way .....	149.466	5,432.50	15
Waste Lands .....	16,286.380	.....	(a)
Water licenses, reservoirs, etc. ....	125.000	92,400.00	2
<b>TOTALS</b> .....	<b>46,432.517</b>	<b>\$ 586,522.85</b>	<b>157</b>

(a) Included in sugar leases.

### GENERAL LEASES AND LICENSES—FOURTH LAND DISTRICT—JUNE 30, 1967

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3110	Yutaka Hamamura	9/25/46- 9/24/67	Lots 20-A & B, Anahola Lots	0.16	bus	\$ 20.00
3123	Fumio Kagawa	9/24/46- 9/23/67	Lots 2-10, Block D, Waimea	0.65	past	31.74
3172	Hiroshi Wakumoto	3/ 8/47- 3/ 7/68	Kainahola Pasture Land A, Kapaa Homesteads	32.50	past	160.00
3173	Peter Nyuk Heong Hew	3/ 8/47- 3/ 7/68	Kainahola Pasture Land B, Kapaa Homesteads	94.50	past	310.00
3221	Kauai Beverage & Cream Co., Ltd.	12/22/47-12/21/68	Lots 3 & 4, Kekaha Town Lots	0.56	bus	400.00
3304	Kapaa Electric Co., Ltd.	10/22/49-10/21/70	Wailua, Puna, Kawaihau	1.00	r/w	12.50
3451	Shigeru Miyasato	7/16/53- 7/15/74	Kapaa, Kawaihau	0.010	r/w	12.00
3452	Mabel C. Lai	7/16/53- 7/15/74	Kapaa, Kawaihau	0.030	r/w	12.00
3458	Kekaha Sugar Co., Ltd.	1/ 1/54-12/31/68	Waimea, Kona	8,225.47 7,909.00 11,886.78	cane past waste	201,551.61
3519	Hawaiian Fruit Packers, Ltd.	5/28/55- 5/27/70	Portion Lot 215-A-1, Kapaa Homesteads, Kawaihau, Puna	7.16	pine	\$ 236.00
3520	Hawaiian Fruit Packers, Ltd.	6/ 4/55- 6/ 3/70	Wailua, Kawaihau, Puna	79.60	pine	2,113.63
3546	Lihue Plantation Co., Ltd.	7/ 1/56- 6/30/71	Wailua, Lihue, Puna	219.95 4,756.19 2,581.40	past cane waste	91,774.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3547	Lihue Plantation Co., Ltd.	7/ 1/56- 6/30/71	Anahola, Kamalomalo, Kawaihau, Koolau	1,919.50	cane	35,791.68
3548	Seichi Hoashi	8/21/56- 8/20/77	Kalaheo, Kona	1,818.20	waste	
3549	William Hyde Rice, Ltd.	8/21/56- 8/20/77	Lots 34, 35, 36 & 43 & por. Lots 37, 38, 39 & 42, Wailua Rice & Kula Lots, Wailua, Lihue, Puna	33.12	past	235.00
				43.92	past	240.00
3550	Ume Oshita	8/21/56- 8/20/71	Lot 81, Anahola Lots, Kawaihau, Puna	4.48	agr	25.00
3551	Natsuyo Iwamoto	8/21/56- 8/20/71	Lot 7, Wailua Rice & Kula Lots, Wailua, Puna	3.84	agr	82.00
3552	Magoichi Nishimoto	8/21/56- 8/20/71	Lot 3, Wailua Rice & Kula Lots, Wailua, Puna	5.07	agr	90.00
3553	Antone & Hattie Bandman	6/15/56- 6/14/71	Lot 62, Kapaa Homesteads, 1st Series, Kapaa, Puna	9.17	agr	300.00
3554	McBryde Sugar Co., Ltd.	8/21/56- 8/20/71	Lot 10, Hanapepe Rice & Kula Lots, Waimea, Kona	11.07	agr	337.00
3555	Haruo Kato	8/21/56- 8/20/71	Gov't. Remainder, Hanapepe, Kona, Waimea	22.42	agr	120.00
3556	Agnes K. Rogers	8/21/56- 8/20/71	Lot 33-A, Gov't. Remnants, Waimea Valley, Kona	0.29	agr	12.00
3557	Toshio Hashimoto	8/21/56- 8/20/71	Lot 25, Hanapepe Rice & Kula Lots, Hanapepe, Waimea, Kona	4.08	agr	96.00
3558	Katherine V. Molale	8/21/56- 8/20/77	Lot 61-A, Anahola Lots, Koolau	0.23	res.	36.00
3560	Antone Martin, Jr.	8/21/56- 8/20/77	Kuwaawaa Pasture Reserve, Kalaheo, Kona	183.00	past	375.00
3577	Kilauea Sugar Co., Ltd.	1/ 1/59-12/31/79	Papaa, Hanalei	7.12	r/w	200.00
S-3625	Manuel S. Andrade	3/15/61- 3/14/81	Kalaheo Reservoir #6, Kalaheo Homesteads, Koloa, Kona	7.34	past	36.00
S-3626	George B. Fernandes	3/15/61- 3/14/81	Pasture Reserve "A," Kalaheo Homesteads, Kona	33.666	past	537.85
S-3627	Toshiharu Yama & Richard C. Nagao	3/15/61- 3/14/73	Gov't. Land of Wailua, Lihue	9.96	agr	200.00
S-3628	Vernon K. White	3/15/61- 3/14/76	Lots 11-16, Anahola Beach Lots, Anahola, Koolau	2.85	agr	100.00
S-3629	J. Albert Roesch	3/15/61- 3/14/86	Land Adj. to Lot 30, Wailua Homesteads, Wailua, Puna	2.96	rec	180.00
S-3641	William K. Medeiros	8/ 8/61- 8/ 7/81	Lots 47-A & 47-B, Omao Homesteads, Omao, Koloa	6.08	past	180.00
S-3644	Samuel Thronas	7/ 9/61- 7/ 8/71	Lot 24, Wailua Rice & Kula Lots, Wailua, Lihue	13.86	past	750.00
S-3645	Masao Takatsuki	5/11/61- 5/10/81	Par. 2, Wailua Pasture Lands, Wailua, Puna, Kawaihau	8.97	past	251.00
S-3646	Samuel Thronas	5/11/61- 5/10/81	Por. Gov't. Land of Wailua, Wailua, Puna	25.67	past	400.00
S-3649	Morris S. Shinsato	5/11/61- 5/10/91	Lot 28, Lawai Homesteads, Lawai, Koloa	7.54	past	421.00
S-3650	August Aguiar	7/ 9/61- 7/ 8/91	Lot 5-B, Kapaa Rice & Kula Lots, Kapaa, Puna	1.87	agr	180.00
S-3651	Harrison Kauai Johnson	7/ 9/61- 7/ 8/81	Lot 34, Kapaa Homesteads, 1st Series, Kapaa, Puna	5.75	past	435.00
S-3663	Takeshi & Betty Yamamoto	9/16/61- 9/15/71	Lots 58 & 61, Anahola Lots, Anahola, Koolau	2.65	agr	60.00
S-3664	Kekaha Sugar Co., Ltd.	8/18/61-12/31/68	Old Mana School Lot, Por. Gov't. Land of Kekaha, Kekaha, Waimea	14.93	cane	253.00
S-3665	Richard Vidinha	10/16/61-10/15/81	Lots 15 & 16, Lawai Homesteads, Lawai, Kona	16.45	past	48.00
S-3666	William & Evelyn Fernandes	10/16/61-10/15/91	Lots 33, 34, 35 & 36, and Lots 36-A, 38 & 39, Hanalei Homesteads, Halelea	13.64	agr	175.00
S-3667	Tsutao Okasako	9/ 1/61- 8/31/81	Lot 173, Kapaa Homesteads, 3rd Series, Kawaihau, Puna	27.40	agr	650.00
S-3668	Lihue Plantation Co., Ltd.	8/18/61- 6/30/71	Gov't. Lands at Kapaa, Wailua, Kawaihau, Puna	28.78	r/w	3,500.00
S-3671	William P. and Mary Jo Wilson	4/14/61- 4/13/81	Kokee State Park, Waimea	3.18	bus	6,500.00
S-3674	William E. Fernandes	12/18/61-12/17/86	Lot 25, Wailua Rice & Kula Lots, Wailua, Kawaihau, Puna	4.41	bus	250.00
S-3675	Hiroumu & Toneyo Choriki	2/15/62- 2/14/83	Lot 82, Hanapepe Town Lots, Hanapepe, Waimea	0.37	res	600.00
S-3676	Manuel S. Andrade	2/15/62- 2/14/82	Tract 2-A Hanapepe Valley Pasture Lands, Kona, Waimea	46.25	past	\$ 180.00
S-3678	Kekaha Sugar Co., Ltd.	12/18/61-12/17/81	Lot 62, Gov't. Remnants, Ili of Neamo, Waimea Valley	3.70	past	48.00
S-3679	William K. Lemn	12/18/61-12/17/91	Lot 66, Anahola Lots, Anahola, Koolau	0.61	res	240.00
S-3680	Lihue Plantation Co., Ltd.	12/18/61-12/17/86	Lot 44, Wailua Rice & Kula Lots, Wailua, Puna	5.40	agr	220.00
S-3690	Manuel S. Andrade	1/27/62- 1/26/82	Pasture Reserve "C", Kalaheo Homesteads, 2nd Series, Kalaheo, Kona	32.55	past	367.48

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3691	Joseph S. Brun	3/27/62- 3/26/82	Lots A & B, w/Easement 1, Weliweli, Koloa, Kona	73.258	past	264.16
S-3692	August Aguiar	1/27/62- 1/26/82	Lot 1, Kapaa Agr. Lots, Kawaihau, Puna	66.28	past	3,301.00
S-3693	McBryde Sugar Co., Ltd.	1/27/62- 1/26/82	Lots 12-A-2 & 13-A, Hanapepe Rice & Kula Lots, Hanapepe Valley, Waimea, Kona	4.04	agr	104.00
S-3694	Shoichi Nagamine	1/27/62- 1/26/82	Lots 12-A-1, 12-B & 13-B, Hanapepe Rice & Kula Lots, Hanapepe Valley, Kona, Waimea	7.83	agr	190.00
S-3703	Richard C. Nagao	7/ 1/62- 6/30/82	Lot 21, Wailua Rice & Kula Lots, Wailua, Lihue, Puna	22.16	agr	465.00
S-3704	James K. Oshita	6/ 1/62- 5/31/82	Lots 11 & 12, Anahola Lots, Kawaihau, Koolau	1.42 1.00	past agr	51.00
S-3705	Manuel S. Andrade	5/ 2/62- 5/ 1/82	Lot 22, Wailua Rice & Kula Lots, Wailua, Lihue, Puna	8.28	past	200.00
S-3706	Waimea Sugar Mill Co., Ltd.	5/ 2/62- 5/ 1/82	Lot 61, Gov't. Remnant Ili of Halelopo,, Waimea Valley, Waimea, Kona	7.41	cane	45.00
S-3707	Manuel Andrade, Jr.	7/ 1/62- 6/30/82	Tract 1, Hanapepe Valley Pasture Land, Waimea, Kona	45.27	past	198.00
S-3711	County of Kauai	11/15/62-11/14/2027	Gov't. Land at Hanapepe, Waimea Kona	10.43	r/w	
S-3713	County of Kauai		Abandoned WW II Underground tunnels at Puuopae, Waimea, Kekaha & Hanapepe Valley			
S-3733	Konko Kyo Church	2/25/63- 2/24/93	Lot 5, Hanapepe Rice & Kula Lots, Hanapepe, Kona	1.84	ele	240.00
S-3734	Tokiwa Shimonishi	2/25/63- 2/24/83	Lot 54-A, Hanapepe Town Lots, Waimea, Kona	0.10	bus	455.00
S-3735	McBryde Sugar Co., Ltd.	4/26/63- 4/25/83	Lot 9-A, Hanapepe Rice & Kula Lots, Waimea, Kona	7.23	agr	760.00
S-3736	Susumu Nakamura	4/26/63- 4/25/83	Anahola Gov't. Remnant, Parts 1 & 2, Kawaihau, Koolau	3.09	past	122.00
S-3737	Island Holidays, Ltd.	2/25/63- 2/24/83	Parcels C & F, Wailua Coconut Grove, Wailua, Kawaihau, Puna	15.69	rec	1,500.00
S-3795	Hawaiian Telephone Company	11/26/63-11/25/2013	Hanapepe and Puu Ka Pele, Waimea, Kona	1.00	r/w	172.00
S-3796	American Factors, Ltd.	11/26/63-11/25/68	Por. Gov't. (Crown) Land of Hanapepe, Waimea, Kona	5.88	ind	3,900.00
S-3797	Richard & Concepcion Vidinha	11/25/63-11/24/88	Kalaheo Pasture Reserve B, Kalaheo Homesteads, 2nd Series, Koloa	9.85	past	60.00
S-3798	George B. Fernandes	11/26/63-11/25/83	Por. Gov't. (Crown) Land of Wailua, Kawaihau, Puna	13.23	past	75.00
S-3799	Hitoshi Miyabara	11/26/63-11/25/83	Lot 8, Hanapepe Rice & Kula Lots, Waimea, Kona	2.43	agr	97.20
S-3800	Haruo & Kiyoko Akiyama	1/25/64- 1/24/84	Lots 11 & 14, Hanapepe Rice & Kula Lots, Waimea, Kona	2.93	agr	355.00
S-3801	Clarence K. Nonaka	1/25/64- 1/24/84	Lot 22, Hanapepe Rice & Kula Lots, Waimea, Kona	7.66	agr	150.00
S-3802	Hanako A. Duarte	1/25/64- 1/24/84	Lot 24, Hanapepe Rice & Kula Lots, Waimea, Kona	6.10	agr	725.00
S-3803	Yuku Ishida	1/25/64- 1/24/74	Lot 83, Anahola Lots, Kawaihau, Koolau	1.33	agr	90.00
S-3804	Toraji & Chuichi Oshima	11/26/63-11/25/83	Lot 68, Anahola Lots, Koolau	1.36	agr	256.00
S-3814	Olokele Sugar Co., Ltd.	4/13/64- 4/12/84	Gov't. Lands, Sections A, B, C, & D, Hanapepe, Waimea, Kona	1,888.05	cane	37,900.00
S-3815	Joseph S. Brun & Joseph Rita	6/12/64- 6/11/84	Gov't. Lands, Section E, Hanapepe, Waimea, Kona	287.13	past	810.00
S-3816	Victor K. & Betty Givan	4/13/64- 4/12/84	Lot 153, Parts 1 & 2, Kapaa Homesteads, 2nd Series, No. & So. Olo-hena, Kawaihau	19.15	past	730.00
S-3827	East Kauai Water Co., Ltd.	5/11/64- 5/10/94	Drainage basins of North Wailua, Kapaa, Anahola & Hanalei Rivers, Kapaa, Halelea		wtr	90,000.00
S-3828	Lihue Plantation Co., Ltd.	5/11/64- 5/10/94	Por. Moloaa Forest Reserve, Papaa, Moloaa, Kawaihau	125.00	wtr	2,400.00
S-3829	Chiyeiko K. Yoshii and Robert A. Lemn	5/11/64- 5/10/84	Lots 54, 55, & 67, por. 65, pors. abandoned Maia Rd. & Lihue Plantation r/r r/w	4.64	agr	\$ 155.00
S-3830	Robert Y. & Shimayo Y. Hamamura	5/11/64- 5/10/84	Lots 8, 9, & 10, Anahola Lots, Kawaihau	2.21	agr	70.00
S-3831	William A. Cook	5/18/64- 5/17/2029	Lot A-2, Parts 1 & 2, Wailua Resort Site, Lihue	2.50	bus	10,500.00
S-3832	Ichiji & Masako Matsumura	5/18/64- 5/17/2019	Por. Gov't. (Crown) Land, Kapaa, Kawaihau	0.59	bus	1,890.00
S-3833	Aloha Papaya Co., Ltd.	5/18/64- 5/17/74	Por. Gov't. (Crown) Land, Kapaa, Kawaihau, Puna	1.10	ind	1,400.00
S-3840	William A. Cook Hawaii, Inc.	7/ 6/64- 7/ 5/2029	Lot A-1, Wailua Resort Site, Wailua, Kauai	6.093	bus	18,000.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3841	Wailua Beach Club & Cottage Hotel, Inc.	7/ 6/64- 7/ 5/2029	Lots B, C, D, E, Wailua Resort Site, Wailua, Kauai	22.833	bus	31,500.00
S-3842	Bank of Hawaii	7/ 6/64- 7/ 5/94	Lots 88-A & 88-B, Hanapepe Town Lots, Kauai	.452	bus	1,500.00
S-3852	U.S.A.	8/20/64- 8/19/2029	Bonham A.F.B., Waimea (Kona), Kauai	189.26	fed	Gratis
S-3863	Kauai County, Y.M.C.A.	4/ 1/65- 3/31/2020	Lots 24 & 25, por. of Gov't. (Crown) Land of Waimea and Kokee Park, Kauai	3.607	rec	125.00
S-3876	Kilauea Sugar Co., Ltd.	1/11/65- 1/10/85	Former Koolau School Lot, Hanalei, Kauai	1.99	agr	50.00
S-3877	John M. Shimonishi	1/11/65- 1/10/85	Lot 6-A, Hanapepe Rice & Kula Lots, Kauai	0.95	agr	40.00
S-3878	Ume N. Oshita	1/11/65- 1/10/85	Lot 80, Anahola Lots (H.H.L.), Anahola, Kawaihau, Kauai	2.357	agr	300.00
S-3879	Kauai Electric Co., Ltd.	1/11/65- 1/10/2030	Hanapepe Transformer Site, Waimea, Kauai	.017	r/w	26.00
S-3880	Olaf E. Thronas	1/ 1/65- 1/10/85	Lots 32 & 33, Wailua Rice & Kula Lots, Wailua, Kauai	16.56	past	120.00
S-3881	Samuel K. Thronas	1/11/65- 1/10/85	Lots 23-A & 23-B, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	19.405	past	500.00
S-3882	East Kauai Water Co., Ltd.	1/11/65- 5/10/94	Lot 39, Kapaa Homesteads, 1st Series, Kapaa, Kauai	0.36	res	100.00
S-3883	Charles B. Shimomura	1/11/65- 1/10/85	Lot 58-A, Hanapepe Town Lots, 1st Series, Hanapepe, Waimea, Kauai	.181	bus	350.00
S-3884	Alfred Akana	1/11/65- 1/10/2020	Lot 12, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai	.785	bus	2,000.00
S-3885	Manuel Andrade, Jr.	3/19/65- 3/18/85	Lot 7-A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea, Kauai	3.08	agr	528.00
S-3889	Edward C. Shota	1/25/65- 1/24/85	Lots 16, 17, & 18, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	12.30	agr	501.00
S-3890	Minoru Sugita	1/25/65- 1/24/85	Lots 8-A & 8-B, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	8.43	agr	256.00
S-3891	Harry Toshio Saiki & Satoru Saiki	1/25/65- 1/24/85	Lots 9, 10, & 11, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	9.83	agr	180.00
S-3892	Masao Takatsuki	1/25/65- 1/24/85	Lots 12, 13 & 14, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	6.15	agr	180.00
S-3893	Koon Chow Lai	1/25/65- 1/24/85	Lots 15 and adjoining Gov't. Land, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	16.85	agr	280.00
S-3894	Edward K. Taniguchi	1/25/65- 1/24/85	Lots 2, 3, 26-A, 27-A, 29-A, 30-A, Hanalei Homesteads, Hanalei, Kauai	13.53	past	315.00
S-3895	William E. Fernandes	1/25/65- 1/24/85	Lots 26, 27, 29, 30 & 37, Hanalei Homesteads, Hanalei, Kauai	7.30	agr	150.00
S-3910	Betty Wakasa Ushigome	4/14/65- 4/13/85	Lot 54-B, Hanapepe Town Lots, 1st Series, Hanapepe, Kauai	.088	bus	240.00
S-3911	Kauai Electric Co.	4/14/65- 4/13/2030	Por. of Gov't. (Crown) Land of Wailua & por. of Gov't. Land of North Oloheua & Waipouli, Lihue & Kawaihau, Puna, Kauai	25.64	r/w	515.00
S-3912	William A. Cook	4/14/65- 4/13/2020	Lot 5, Kekaha Town Lots, Kekaha, Waimea (Kona), Kauai	.302	bus	650.00
S-3913	Samuel K. Thronas	4/14/65- 4/13/85	Lots 5 to 16, 5-A to 16-A, Hanalei Homesteads, Hanalei, (Halelea), Kauai	66.70	past	400.00
S-3914	Manuel Andrade, Jr.	4/14/65- 4/13/75	Lot 26, Hanapepe Rice & Kula Lots, Hanapepe, Kauai	7.93	past	45.00
S-3917	U.S.A.	2/ 1/65- 1/30/2030	Kokee Pacific Missile Range Facility, Waimea, Kauai	22.465	fed	600.00
S-3928	U.S.A.	9/ 1/65- 8/31/2030	Kokee, Waimea, Kauai	8.45	fed	1.00
S-3937	County of Kauai	11/ 1/65-10/31/2030	Parcels A-1, G, H, I, J, & K, Hanapepe, Waimea, Kauai	3.151	cty	Gratis
S-3939	Pacific Hawaii Fruit, Inc.	11/16/65-11/15/85	Lots 32-A, 33-A, 34-A, 35-A, 38, & 40, Kapaa Homesteads, 1st Series, Kapaa, Kawaihau (Puna), Kauai	4.75	agr	250.00
S-3940	McBryde Sugar Co., Ltd.	11/16/65-11/15/2030	60' wide non-exclusive easement over and across por. of Gov't. (Crown) Lands of Hanalei, Wailua, & Kalaheo, Kauai	74.38	r/w	\$ 925.00
S-3941	Rehabilitation Unlimited, Kauai	11/16/65-11/15/2020	Parcel B, Wailua Coconut Grove, Wailua, Kawaihau (Puna), Kauai	0.813	bus	220.00
S-3942	Man-Kode Universal	11/16/65-11/15/2020	Lots 10-A & 11-A, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai	.697	bus	1,800.00
S-3943	Joseph H. Chu	11/16/65-11/15/85	Lot 19, Hanapepe Rice & Kula Lots, Waimea, Kauai	1.14	agr	36.00
S-3944	Pacific Hawaii Fruit, Inc.	11/16/65-11/15/85	Lots 40-A, 41-A, 64 & 65, Kapaa Homesteads, 1st Series, Kapaa, Puna (Kawaihau), Kauai	3.995	agr	57.00
S-3945	Leroy K. A. Aguiar	12/16/65-12/15/2000	Lot 35, Kapaa Homesteads, 1st Series, Kapaa, Kawaihau (Puna), Kauai	4.11	agr	600.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3946	Pacific Hawaii Fruit, Inc.	12/16/65-12/15/85	Lots 2-B, 5 & 6, Wailua Rice & Kula Lots, Wailua, Kawaihau (Puna), Kauai	10.323	agr	655.00
S-3952	U.S.A. (Navy)	12/17/65-12/16/2030	Waimea, Kauai	454.84	fed	Gratis
S-3955	Joseph Prigge	3/19/66- 3/18/86	Lots 39-A & 52, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	2.60	agr	48.00
S-3956	Pacific Hawaii Fruit, Inc.	3/19/66- 3/18/2001	Lots 36-A, 49 & 50, Kapaa Homesteads 1st Series, Kawaihau (Puna), Kauai	4.41	agr	150.00
S-3957	Joseph Julian & Eleanor L. De Costa	2/17/66- 2/16/2031	Kalaheo, Koloa (Kona), Kauai	.025	r/w	7.50
S-3958	Frank S. & Dorothy T. Morris	3/19/66- 3/18/86	Lot 33, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	9.50	past	400.00
S-3959	Frank D. Silva	3/19/66- 3/18/86	Lot 3, Kapaa Rice & Kula Lots Kawaihau (Puna), Kauai	25.71	past	703.00
S-3960	Hitoshi & Hatsue K. Miyabara	2/17/66- 2/16/86	Lots 18 & 21, Hanapepe Rice & Kula Lots, Kona (Waimea), Kauai	6.983	agr	160.00
S-3969	Shigeo & Eleanor K. Takeuchi	5/26/66- 5/25/86	Lot 21-A, Hanapepe Town Lots, 1st Series, Waimea (Kona), Kauai	.148	bus	600.00
S-3970	Manuel Andrade, Jr.	5/26/66- 5/25/86	Por. of Lots 27 & 28 and all of Lots 29 to 34, Hanapepe Rice & Kula Lots, Waimea (Kona), Kauai	22.65	past	90.00
S-3971	McBryde Sugar Co., Ltd.	5/26/66- 5/25/2031	Pasture Reserve C, Kalaheo Homesteads, 2nd Series, Koloa (Kona), Kauai	0.666	r/w	20.00
S-3972	Pacific Hawaii Fruit, Inc.	5/26/66- 5/25/86	Por. of Gov't. (Crown) Land between Kapaa Stream & Kapaa Homesteads, 1st & 3rd Series, Kawaihau (Puna), Kauai	33.00	agr	140.00
S-3973	Leialoha Dung	5/26/66- 5/25/2031	Lot 25, Hanapepe Rice & Kula Lots, Waimea (Kona), Kauai	.175	r/w	6.50
S-3974	Patrick & Rosaline T. Lopez	5/26/66- 5/25/86	Lots 1, 23, 33-A, 34-A & 35-A, Hanalei Homesteads, Hanalei, Kauai	13.07	past	305.00
S-3975	Pacific Hawaii Fruit, Inc.	5/26/66- 5/25/86	Lots 1, 1-A, 2, 2-A, 3, 3-A, 4, 4-A, 5, 5-A, 6, 6-A, 7, 7-A, 10 & 12, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	26.72	agr	300.00
S-3976	Wilfred Kauai	5/26/66- 5/25/86	Lots 8, 8-A, 9, 9-A, 10-A, 11, 11-A, 12-A, 13-A, 14-A, 15-A, 16-A, 17, 17-A, 18, 18-A, 19, 19-A, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	23.92	agr	300.00
S-3977	Richard Ueoka	5/26/66- 5/25/2021	Lot 23, Hanapepe Town Lots, 1st Series, Waimea (Kona), Kauai	.158	bus	248.00
S-3988	Joseph Texeira	7/14/66- 7/13/86	Portion of Government Land, Lots 20, 21, 22, 25, 26, 28, & 29-B, Kapaa Homesteads, 1st Series, Kawaihau, Kauai 4-6-03	18.110	agr	500.00
S-3989	Ronald T. Matsumura & Harry Fukushima	8/13/66- 8/12/86	Portion of Government Land, Kapaa Homesteads, 1st Series, Lot 36, Kawaihau, Kauai 4-6-05	6.240	agr	800.00
S-3990	Samuel Thronas	7/14/66- 7/13/86	Portion of Government Land, Hanalei Valley, Halelea, Kauai 5-3-01:3	461.600	past	1,691.00
S-3991	Frank S. Morris & Dorothy T. Morris	7/14/66- 7/13/86	Portion of Government Land, Kapaa Homesteads, 1st Series, Lot 13, 14, 15, 16, 30-A, 31, 31-A, & 32, Kawaihau, Kauai 4-6-03	15.560	past	120.00
S-3992	A. Duncan MacLean	7/14/66- 7/13/2031	Portion of Government Land, Lawai, Koloa, Kauai 2-5-02	.037	r/w	18.00
S-3993	Ichiji Matsumura & Masako Matsumura	7/14/66- 7/13/2001	Portion of Government Land, Kapaa Homesteads, 1st Series, Lot 37, Kawaihau, Kauai 4-6-05	3.000	agr	630.00
S-3994	Eugene Henriques	7/14/66- 7/13/86	Portion of Government Land, Kapaa Homesteads, 1st Series, Lots 20-A, 21-A, 22-A, 23, 23-A, 24, 24-A, 25-A, 26-A, 27, 27-A, 28-A, 29-C, 30, Kawaihau, Kauai 4-6-03	14.090	agr	801.00
S-3995	Peter H. Souza & Helen H. Souza	7/14/66- 7/13/86	Portion of Government Land, Kapaa R & K Lots, Lot 2-A-2, Kawaihau, Kauai 4-5-15	10.562	agr	240.00
S-4021	Manuel J. Fernandes	11/17/66-11/16/86	Government Land & Spring Res., Kalaheo Homesteads, Kalaheo, Koloa, Kauai 2-8-67	1.760	past	48.00
S-4022	Hawaiian Telephone Co.	11/17/66-11/16/2031	Portion of Lot 2-A-2, Kapaa Rice & Kula Lots, Kawaihau, Kauai 4-5-15	.156	r/w	6.00
S-4023	T & Y	11/17/66-11/16/2021	Lot 9, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai 3-2-04:1	.618	bus	1,200.00
S-4092	Samuel Thronas	2/16/67- 2/15/2002	Parcels A & B, Wailua Game Reserve, Wailua, North & South Olohana, Waipouli, Kapaa, Kawaihau, Kauai 4-2-01:1 & 4 4-4-01:1	1,855.000	past	2,030.00
S-5007	University of Hawaii	6/ 1/67- 5/31/87	Lihue-Koloa Forest Reserve, Koloa, Kauai 2-4-09	.014	ele	Gratis

## DIVISION OF STATE PARKS

**Table 1. STATE PARK AREAS, ACREAGE AND USAGE, BY ISLAND AND AREA: 1952, 1966 and 1967**

Island and State Park Area	Year Estab.	Acreage, as of June 30			Recreation 1953	Visits (1,000s) <sup>1</sup>	
		1952	1966	1967		1966	1967
All State Park Areas.....		5,422.4	7,513.5	7,527.2	75.5	2,710	3,204
<b>HAWAII</b> .....		13.2	174.9	174.9	35.5	660	700
Akaka Falls State Park.....	1952	..	65.4	65.4	24	142	108
Hapuna Beach State Park.....	1967	..	..	4	..	..	..
Hikiau Heiau State Monument.....	1967	..	..	4	..	..	..
Kalopa State Recreation Area.....	1967	..	..	4	..	..	..
Kilauea State Recreation Area.....	1966	..	4	4	..	..	1
Lava Tree State Monument.....	1956	..	17.1	17.1	..	69	70
MacKenzie State Park.....	1955	..	13.1	13.1	3	35	34
Manuka State Wayside.....	1952	13.2	13.2	13.2	8.5	43	41
Mauna Kea State Park.....	1962	..	4	4	..	29	66
Wailoa River State Recreation Area.....	1954	..	66.1 <sup>5</sup>	66.1 <sup>5</sup>	..	342	380
Wailuku River State Recreation Area.....	1967	..	..	4	..	..	..
<b>MAUI</b> .....		9.1	23.2	23.2	5	309	476
Halekii-Pihana State Monument.....	1962	..	10.2	10.2	..	8.5	9.5
Iao Valley State Park.....	1961	..	3.9	3.9	..	218	280
Kaunahina State Wayside.....	1952	7.6	7.6	7.6	3.5	14	28
Keanae Valley State Wayside.....	1951	1.5	1.5	1.5	1.5	9.5	22
Launiupoko State Wayside.....	1965	..	4	4	..	46	93
Poli Poli Spring State Recreation Area.....	1957	..	4	4	..	..	..
Puaa Kaa State Wayside.....	1954	..	4	4	..	13	24
Waianapanapa State Park.....	1966	..	4	4	..	..	19
<b>MOLOKAI</b> .....							
Palaa State Park.....	1955	..	233.7	233.7	..	3	2
<b>OAHU</b> .....			161.2	174.9	..	488	438
Diamond Head State Monument <sup>2</sup> .....	1962	..	145.3	145.3	..	..	..
Iolani Palace State Monument.....	1967	..	..	10.6	..	..	..
Keaiwa Heiau State Recreation Area.....	1955	..	7.2 <sup>5</sup>	7.2 <sup>5</sup>	..	297	256
Leahi Park (local).....	1957	..	3.2	3.2	..	..	..
Puu O Mahuka State Monument.....	1962	..	4.0	4.0	..	..	..
Puu Ualakaa State Wayside.....	1957	..	4	4	..	191	182
Ulu Po Heiau State Monument.....	1954	..	1.4	1.4	..	..	..
Waahila Ridge State Recreation Area.....	1967	..	..	4	..	..	..
Washington Place State Monument.....	1966	..	3.1	3.1	..	..	..
<b>KAUAI</b> .....		5,400.0	6,922.5	6,922.5	35	1,251	1,588
Kokee State Park.....	1952	4,640.0	4,640.0	4,640.0	20	358	384
Na Pali Coast State Park.....	1962	..	4	4	..	1	1
Polihale State Park.....	1967	..	..	4	..	..	..
Wailua River State Park <sup>3</sup> .....	1954	..	416.0 <sup>5</sup>	416.0 <sup>5</sup>	..	668	963
Waimea Canyon State Park.....	1952	760.0	1,866.4	1,866.4	15	224	240

<sup>1</sup>Estimated visits, one visitor may account for more than one visit. For years ending June 30. Not available before 1953.

<sup>2</sup>Includes Na Laau Arboretum (1958; 9.5 acres).

<sup>3</sup>Includes Wailua River Reserve (1956; 297.4 acres), Kaunualii (1956; 4.3 acres), Fern Grotto (1956; 4.8 acres), Boat Basin (1962; 11.4 acres), Poliahu (1962; 59.0 acres), and Lydgate (1962; 39.2 acres).

<sup>4</sup>Acquired jurisdiction; no definite boundaries yet established.

<sup>5</sup>Acquired jurisdiction of additions; new boundaries not yet established.

**Table 2. STATE PARK REVENUES, BY SOURCE, 1967.**

Income Source	Amount
Total .....	\$34,650.22
Rentals, recreation residence lots, Kokee and Waimea Canyon State Parks, Kauai.....	8,477.23
Rentals, vacation cabins and lodgings, State operated, all parks .....	13,515.71
Lease of concession, Kokee State Park, Kauai.....	7,231.10
Sale of water, all parks.....	4,310.04
Sale of electricity, Wailoa River State Recreation Area pavilions .....	1,043.93
Commissions and Sales, miscellaneous, all islands.....	72.21

**Table 3. STATE PARK AREAS, TOTAL ACREAGE, RECREATION VISITS, EXPENDITURES AND REVENUES BY YEARS—1952-1967**

Year <sup>1</sup>	Number of Areas <sup>1</sup>	Acreage <sup>3</sup>	Estimated Recreation Visits <sup>1</sup>	Operating Cost Per Visit	Expenditures in Dollars <sup>1</sup>			Program Revenues
					Total	Operating	C.I.P. <sup>2</sup>	
1952	5	5,422	NA	NA	NA	NA	NA	NA
1953	7	5,500	76,000	16.4¢	12,458	12,458	...	NA
1954	9	5,739	79,000	24.6¢	19,469	19,469	...	NA
1955	14	5,829	148,000	8.5¢	20,109	12,575	7,534	NA
1956	15	5,846	154,000	8.5¢	28,914	13,102	15,812	NA
1957	16	6,138	164,000	8.2¢	25,473	13,432	12,041	NA
1958	18	6,166	239,000	5.9¢	16,134	14,134	2,000	NA
1959	18	6,166	243,000	9.0¢	24,695	21,712	2,983	NA
1960	18	6,166	267,000	14.1¢	49,445	37,549	11,896	NA
1961	18	6,166	297,000	27.1¢	542,905	80,558	462,347	9,337
1962	21	6,410	489,000	24.5¢	482,150	119,676	362,474	4,557
1963	23	6,410	666,000	26.2¢	387,918	174,764	213,154	11,684
1964	22	6,412	1,196,000	16.9¢	492,666	202,184	289,482	20,433
1965	22	7,514	1,893,000	10.3¢	860,307	195,506	664,801	21,207
1966	27	7,514	2,710,000	9.5¢	2,256,056	256,824	1,999,232	24,428
1967	34	7,527	3,204,000	10.0¢	1,904,582	320,187	1,584,395	34,650

NA—Not available.

<sup>1</sup>Year ended June 30.

<sup>2</sup>Capital improvement program, including land acquisition.

<sup>3</sup>Parks for which boundaries are not yet established are not included.

## DIVISION OF WATER AND LAND DEVELOPMENT

### STATUS OF FLOOD CONTROL INVESTIGATION STUDIES AND PROJECTS

#### I. Investigation Studies of Flood Control Projects

The following is a list of projects presently being studied by the Corps of Engineers and Soil Conservation Service to determine their economic feasibility and qualification for federal assistance.

Project	Authority & Fed. Agency
Aiea Stream, Oahu	Sec. 205 of the 1948 Flood Control Act as amended *
Kalihi Stream, Oahu	" *
Kealahala Stream, Oahu	" *
Waialae Nui and Kapakahi Streams, Oahu	" *
Wailupe Stream, Oahu	" *
Waimalu Stream, Oahu	" *
Palolo-Manoa Stream, Oahu	P.L. 81-516 *
Kaneohe-Kailua area, Oahu	P.L. 89-298 *
Iao Stream, Maui	P.L. 85-516 *
Kahoma Stream, Maui	P.L. 86-645 *
Waipio Stream, Hawaii	P.L. 87-874 *
Kahaluu Watershed, Oahu	P.L. 83-566 †
Honolua Watershed, Maui	" as amended †

#### II. Construction of Flood Control Projects

The following projects qualified for federal assistance and are presently being constructed:

Project	Authority & Fed. Agency
Puukapu Watershed, Hawaii	P.L. 83-566 †
Kona Watershed, Hawaii	" as amended †
Waianae Watershed, Oahu	" †
Kuliouou Stream, Oahu	Sec. 205 of the 1948 Flood Control Act as amended *

#### III. Flood Plain Information Study and Flood Mapping

A. Under the authority of Section 206 of P.L. 86-645 as amended, the Corps of Engineers has completed flood plain information studies which outline the flood problems, show the extent of flooding and provide guidelines to regulate land use in a flood plain to reduce flood damage. The following areas are being studied.

Pupukea-Paumalu, Oahu  
Anahola, Kauai  
Kihei, Maui  
Waialua, Oahu

B. Under a cooperative agreement between the State of Hawaii and the U.S. Geological Survey, the Survey is mapping the limits of known floods and providing hydrologic data. The mapping of the following projects is being prepared.

Waiahole-Waikane, Oahu  
Waimanalo, Oahu  
Makaha, Oahu  
Punaluu-Haaula, Oahu

\*Corps of Engineers

†Soil Conservation Service

# CONSTRUCTION PROJECTS AWARDED, UNDER CONSTRUCTION OR COMPLETED

Job. No.	Description	Construction Cost	Starting Date	Completion Date	Contractor
<b>LAND PROJECTS</b>					
50-L-4	Weliweli Houselots Subdivision, Kauai	\$ 190,835.80	5-16-66	1-24-67	A. C. Chock, Ltd.
18-L-11	Wailua Interceptor "A", WPC-HAWAII-15 Wailua, Kauai	134,937.25	6-27-66	5- 3-67	Hercules Construction Co., Inc.
41-M-15	Waimanalo Core Development Sewage Treatment Plant, Waimanalo, Oahu	1,941,700.00	7-27-66	12-31-67*	Ben Hayashi, Ltd.
1-M-6	Shafter Flats Industrial Development, Unit I, Honolulu, Hawaii	500,847.43	10-27-66	6-21-67	Island Construction Co., Ltd.
10-HL-5	Alii Highway, Kona, Hawaii	315,809.75	3-13-67	1- 6-68*	J. M. Tanaka Construction, Inc.
<b>WATER PROJECTS</b>					
3-L-9	24-inch Distribution Main, Molokai Irrigation Project	685,950.83	6-28-65	8- 5-66	Land & Construction Co., Inc.
11-KW-8	Princeville Pipeline, Pumps and Tank, Kauai	12,652.80	7-11-66	7- 6-67	Kauai Machine Works, Ltd.
48-HW-5	Improvements to Waimea Water System, Phase I, South Kohala, Hawaii	178,652.08	7-18-66	1-19-67	S. K. Oda, Ltd.
17-MW-14	Exploratory Drilling of Alaeloa Well 318-1 Alaeloa, Maui	18,396.00	7-25-66	3-17-67	Roscoe Moss Company
17-MW-16	Exploratory Drilling of Pauwela Well 36 Pauwela, Maui	13,890.00	9-19-66	5-26-67	Roscoe Moss Company
8-HW-25	12-inch Pipeline Along Kuakini Highway, Kona Water Project, Hawaii	194,668.55	10-17-66	9-29-67	Yamada & Sons, Inc.
16-9W-4	24-inch Water Main, Molokai Farm Lots	63,299.70	12- 1-66	5-16-67	J. M. Tanaka Construction, Inc.
3-M-12	Hoolehua System—Phase I, Molokai Irrigation Project	304,239.40	12- 8-66	10-11-66	Molokai Rock & Equipment Co.
3-9W-14	Pumps and Electrical Controls, Molokai Irrigation Project	237,395.37	12- 8-66	8-30-67	Layne International, Inc.
8-HW-23	Pipeline Along Mamalahoa Highway, Keei 2 to Honaunau, Kona Water Project, Hawaii	86,491.65	5-25-67	11-20-67*	J. M. Tanaka Construction, Inc.
17-KW-18	Exploratory Drilling of Wailua, Kaulaula and Niu Wells, Kauai	33,219.00	6- 5-67	12-31-67*	Roscoe Moss Company
3-9W-18	Mauna Loa Feeder Line, Molokai Irrigation Project	187,287.50	8-18-67	2-14-68*	J. A. Thompson & Son, Inc.
3-9W-17	Hoolehue System—Phase II, Molokai, Irrigation Project	392,869.10	8-21-67	6-16-68*	E. T. Ige Construction, Inc.
8-HW-24	Tank, Pumps and Pipeline, Moeauoa to Honokohau, Kona Water Project	133,931.20	9-11-67	5- 8-68*	J. M. Tanaka Construction, Inc.
<b>STATE PARKS PROJECTS</b>					
30-KP-12	Concrete, Steel and Pipe, Wailua River State Park, Kauai	22,931.75	1-21-66	12- -66	Hale Kauai, Ltd.
30-KP-13	Wailua River Park Improvements, Electrical System for Lydgate Park, Kauai	67,861.57	4-25-66	12-30-66	Hale Kauai, Ltd.
39-HP-7	Construction of Recreation, Dining Hall and Cabins, Pohakuloa, Hawaii	64,465.00	5-11-66	12-21-66	Isemoto Construction Co., Ltd.
30-KP-14	Furnishing Lumber, Hardware & Sewage Treatment Units, Wailua, Kauai	27,700.69	5-16-66	3-29-67	Amfac, Inc.
30-KP-15	Rigid Frame for Building "B", Wailua River State Park, Wailua, Kauai	12,262.00	8- 1-66	9-30-66	Kauai Development Co.
30-KP-17	Lumber, Hardware & Masonry Materials, Wailua River Park, Schedule I	8,584.89	8- 1-66	1-23-67	Amfac, Inc.
30-KP-17	Lumber, Hardware & Masonry Materials, Wailua River Park, Schedule II	3,700.00	8- 1-66	1-10-67	Midpac Lumber Co.
5-OP-1	Ruth Place Extension, Waahila Ridge, Oahu	9,882.00	8-22-66	10-12-66	Gilbert Kobatake, Inc.
36-MP-2	Cabins for Waianapanapa State Park, Maui	66,078.00	10-11-66	12-12-66	F & M Contractors
36-MP-3	Waianapanapa State Park Pipeline and Tank Waianapanapa, Maui	32,604.19	10-24-66	12-12-66	F & M Contractors
57-HP-6	Dredging and Site Improvements, Wailoa River State Park, Hilo	34,711.00	12- 6-66	4-19-67	Jas. W. Glover, Ltd.
39-HP-8	Park Improvements, Pohakuloa, Hawaii	42,434.85	3-20-67	7-13-67	Jas. W. Glover, Ltd.
30-KP-20	2-inch Asphalt Concrete Paving, Wailua River Marina, Kauai	32,272.00	4- 3-67	6-20-67	Hawaiian Bitumuls and Paving Co.
57-HP-7	Wailoa Visitor Orientation Facilities, Wailoa River State Park, Hilo, Hawaii	288,194.50	6-19-67	6-13-68*	S. K. Oda, Ltd.
36-MP-4	Docking Facilities, Lahaina Historical Restoration, Lahaina, Maui	20,500.00	9-18-67	12-16-67*	E. T. Ige Construction, Inc.
<b>FORESTRY PROJECTS</b>					
37-MM-4	Kula Forest Reserve Improvements, Maui	32,760.00	5-16-66	1- 6-67	Fong Construction Co., Ltd.
<b>FISH AND GAME PROJECTS</b>					
7-L-1	Boat Launching Facilities, Wahiawa Reservoir Wahiawa, Oahu	30,803.00	5-22-67	2-15-68*	F. T. Opperman, Inc.
<b>JOB CORPS PROJECTS</b>					
59-OJ-3	Construction of Administration, Warehouse and Motor Pool Bldgs., Koko Head, Oahu	118,993.60	5- 1-67	8- 9-67	Harry T. Yanagihara
<b>FLOOD CONTROL PROJECTS</b>					
28-HF-4	Puukapu Principal Spillway, Puukapu Watershed Project, Hawaii	72,404.00	7- 7-67	2- 1-68*	Corps Construction, Ltd.

\*Contract Completion Date

## WAIMEA IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
<b>1966</b>					
July .....	14,655,280	181	\$ 407.25	\$ 991.90	\$ 1,399.15
August .....	12,133,020	185	416.25	832.02	1,248.27
September .....	13,034,860	185	416.25	895.92	1,312.17
October .....	12,777,980	186	418.50	874.75	1,293.25
November .....	9,827,870	188	423.00	691.59	1,114.59
December .....	6,865,580	188	423.00	492.83	915.83
<b>1967</b>					
January .....	3,403,360	190	427.50	246.77	674.27
February .....	7,437,520	190	427.50	536.19	963.69
March .....	4,421,620	191	429.75	319.96	749.71
April .....	5,599,420	194	436.50	397.89	834.39
May .....	7,318,870	194	436.50	508.35	944.85
June .....	13,353,350	194	436.50	913.76	1,350.26
Totals .....	110,828,730	2,266	\$ 5,098.50	\$ 7,701.93	\$12,800.43

## MOLOKAI IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
<b>1966</b>					
July .....	7,062,000	1,107	\$ 1,232.27	\$ 564.96	\$ 1,797.23
August .....	25,243,000	1,556	1,731.80	2,082.00	3,813.70
September .....	37,390,200	1,832	1,835.78	2,991.22	4,927.00
October .....	33,028,300	2,024	2,045.85	2,641.46	4,686.31
November .....	35,245,600	2,840	3,366.58	2,819.64	6,186.22
December .....	10,039,200	2,828	2,704.30	803.12	3,507.42
<b>1967</b>					
January .....	1,347,000	2,828	2,704.30	107.76	2,812.06
February .....	464,000	2,828	2,704.30	37.12	2,740.12
March .....	515,000	2,828	2,704.30	41.20	2,745.50
April .....	569,000	2,908	2,792.30	45.52	2,837.82
May .....	2,090,000	2,908	2,792.30	167.20	2,957.68
June .....	26,979,000	3,031	2,927.60	2,158.32	5,085.92
Totals .....	179,942,300	32,426	\$29,541.68	\$14,459.32	\$44,098.41

## WAIMANALO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
<b>1966</b>					
July .....	16,833,931	898.355	\$ 2,246.02	\$ 1,346.71	\$ 3,592.73
August .....	17,585,381	912.061	2,280.28	1,406.83	3,687.11
September .....	17,601,444	905.208	2,263.15	1,408.11	3,671.26
October .....	11,522,961	905.208	2,263.15	921.83	3,184.98
November .....	1,058,684	905.208	2,263.15	84.71	2,347.86
December .....	2,512,887	905.208	2,263.15	201.03	2,464.18
<b>1967</b>					
January .....	697,045	905.208	2,263.15	55.77	2,318.92
February .....	1,736,898	905.208	2,263.15	138.97	2,402.12
March .....	1,215,653	905.208	2,263.15	97.25	2,360.40
April .....	2,615,872	905.208	2,263.15	209.28	2,472.43
May .....	10,159,772	905.208	2,263.15	812.79	3,075.94
June .....	16,266,541	905.208	2,263.15	1,301.29	3,564.44
Totals .....	99,807,069	\$27,157.80	.....	\$ 7,984.57	\$35,142.37

## LIST OF PUBLICATIONS

Report R29	"Water Supply Investigations for Laupahoe Water System, South Kohala, Island of Hawaii"	Circular C38	"Application for Grant under Water Resources Planning Act of 1965"
Circular C27	"Preliminary Report on the Water Resources of the Kau District, Hawaii"	Circular C39	"Preliminary Report on the Water Resources of the Kahuku Area, Oahu, Hawaii"
		Circular C40	"Drainage Criteria Meeting"

