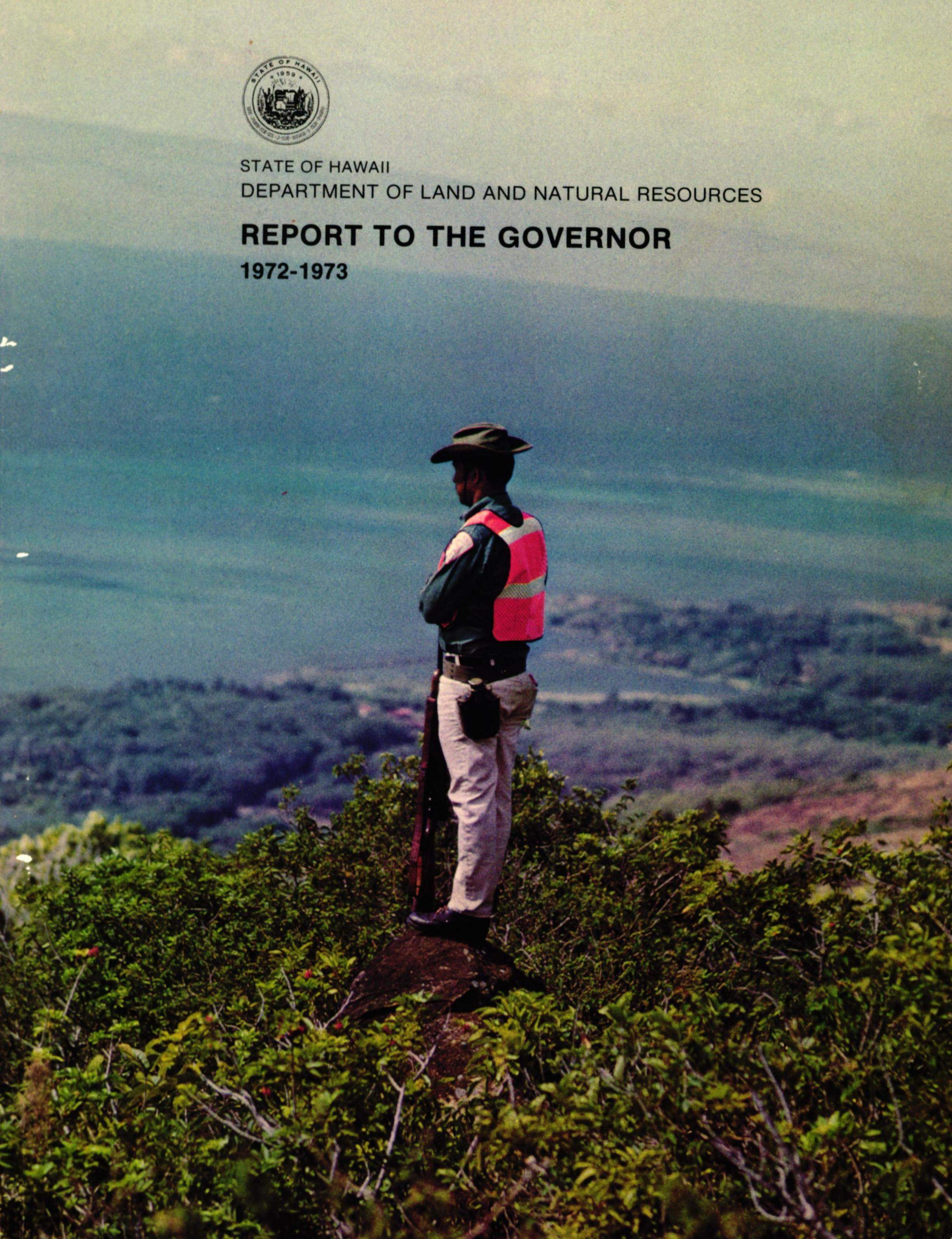




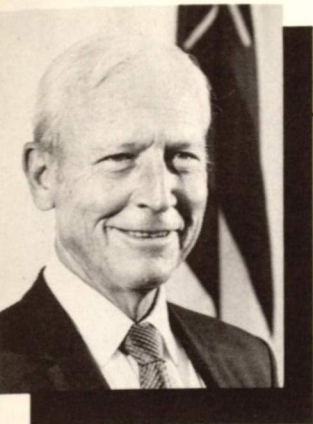
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

REPORT TO THE GOVERNOR

1972-1973



*Front cover:
Leonard Molena DLNR Conservation Enforcement Officer,
participating in a cattle TB eradication hunt on Molokai.*



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

December 18, 1973

Honorable John A. Burns
Governor of Hawaii
State Capitol
Honolulu, Hawaii

Dear Governor Burns:

I am pleased to again present to you, on behalf of the Members of the Board and the Staff of the Department, the Annual Report of the Department. The past year has been for the Department, as it has been for all State Agencies, a period of fiscal and manpower restraint and retrenchment, which has had significant effect on our efforts towards balanced programs of development, utilization, and conservation of the basic water and land resources of the State to meet public and private needs for housing, for adequate supplies of water, for outdoor recreation, and for overall employment and economic gain.

We have continued our drive for improvement and the administration of the Conservation District lands of the State, and in improving the processing of applications for use of lands within these restricted areas. We have also pressed forward with our efforts to locate, and to preserve and protect important historic and cultural buildings and sites within the State; and for preservation of natural areas of substantial scientific or scenic value.

It is most difficult at short range to measure or assess the effects of many of our programs, but we sincerely believe that our basic programs for development and conservation of irreplaceable natural resources can and will ultimately benefit the State and its people.

Respectfully,

BOARD OF LAND AND NATURAL RESOURCES

SUNAO KIDO
Chairman and Member



Mauna Kea Silversword

Organization

DEPARTMENT OF LAND AND NATURAL RESOURCES



SUNAO KIDO
Chairman
Oahu



H. MUNECHIKA
Kauai



LARRY MEHAU
Hawaii



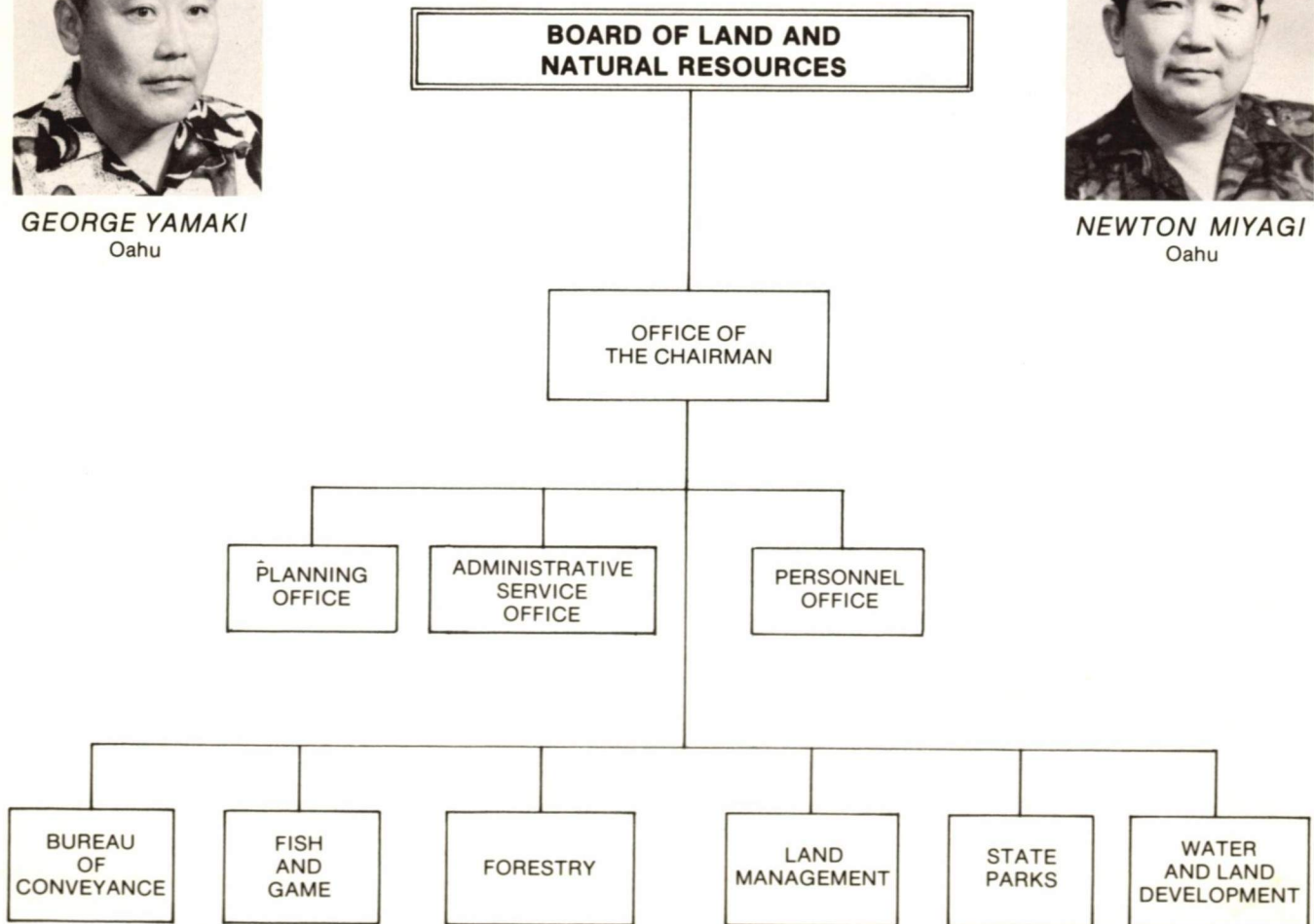
MANUEL MONIZ, JR.
Maui



GEORGE YAMAKI
Oahu



NEWTON MIYAGI
Oahu





Keanae Arboretum, Maui, showing several *lo'i* with varieties of taro and several Hawaiian sugarcane varieties.

FOREWORD

Article 10 of the State Constitution is the primary guideline for the activities and functions of the Board of Land and Natural Resources and for all of its subordinate units, and states in part:

Section 1. The legislature shall promote the conservation, development and utilization of agricultural resources, and fish, mineral, forest, water, land, game and other natural resources.

Section 2. The legislature shall vest in one or more executive boards or commissions powers for the management of natural resources owned or controlled by the State . . .

The ultimate goals of the Board, and of the Department, encompass the rational, controlled development and utilization of the natural resources of the State—the land, water, forests, and open spaces—to

meet the present needs of the people; while at the same time giving due consideration to the necessity for conservation and preservation of limited or unique elements within these natural resources, for the future.

Short-term objectives of the Board may change from time to time to meet the expressed needs of the people. This relates especially to the programs for development and utilization of the limited land and water resources under the control of the Board, and considered suitable for such programs as low-cost housing, industrial subdivisions, agricultural production, and resort growth. Formal proposals, and public and private expressions of interest are given due consideration by the Members of the Board in the final analysis and decision for use and disposition of these irreplaceable resources.



Teen-agers on mini-bikes are off and running on their own mini-bike course at Waialeale.

SECTION I ORGANIZATION

BOARD OF LAND AND NATURAL RESOURCES

The Board of Land and Natural Resources is responsible for the conservation, protection, and effective utilization of the mineral, forest, water, land, wildlife and fish, and the other natural resources owned and controlled by the State of Hawaii. The Board, through the activities of the Chairman and the staff of the Department, administers and manages these vital resources for the benefit and enjoyment of the public.

The Board consists of six members who are appointed by the Governor of Hawaii, with the advice and consent of the State Senate. Two members are appointed at-large from within the State, and one member is appointed from each of the four Land Districts of the State. The regular appointive term is for a period of four years, and members may not legally serve for more than two consecutive terms nor for more than eight consecutive years.

The program goals and objectives of the Department, authorized by the Board, recognize the vital relationships that exist between the management of these resources and the overall environment of the State. Due consideration is given to the basic social values inherent in the effective and efficient development and utilization of these State resources to meet recognized needs.

The overall activities of the Board and the Chairman in directing and coordinating the functions and activities of the operating units of the Department are

supported by several staff units, which also support and service the requirements of the operating Divisions and other units of the Department.

OFFICE OF THE CHAIRMAN

The Chairman of the Board, appointed by the Governor from among the members of the Board, serves also as the full-time, salaried Executive Officer of the Department of Land and Natural Resources. In this capacity, his responsibilities include directing and coordinating the major program activities and functions of the staff and operating units of the Department. The Chairman provides essential liaison from the Board and the Department to the Office of the Governor; to the State Legislature; to other government agencies and jurisdictions; and to private organizations and individuals. The Chairman is, ex-officio, a member of the State Board of Agriculture and of the State Land Use Commission; and serves also as a member of the Natural Areas Reserve Commission, the Historic Sites Reserve Commission, and the State Agricultural Coordinating Committee. He is also the State Liaison Officer on Historic Preservation, under Public Law 89-665.

The Chairman is directly supported in the day-to-day administration of the Department by the Deputy Director and the small staff of the Office of the Chairman.

ADMINISTRATIVE SERVICES

Under the overall supervision of the Departmental Fiscal Officer, this office assists the Chairman and heads of divisions in long-range financial planning, and in preparation and management of annual and biennial budgets. Other major fiscal activities include preparation of billings and accounting for all funds derived from leases, permits, sale of timber, rock and sand, sale of public lands, water, cinder and other licenses. The staff also maintains expenditure controls, provides centralized purchasing service, prepares payrolls, receives and handles receipts of all types, including control of petty cash within the Department. Financial evaluations and reports are prepared for distribution to division heads and program managers in the Department, and to other interested State Agencies and to the Legislature.

Administrative functions performed for the Department include office space allocations, acquisition of equipment of all types, maintaining of automotive and equipment inventories and administering contracts for maintenance of office furniture and equipment.

Accounting service for the entire Department is centralized in this Office, and the Fiscal Officer and his staff provide specialized liaison with the Department of Accounting and General Services and with the Department of Budget and Finance.

PLANNING OFFICE

The Planning Office, with the aid of operating divisions, assists the Chairman and the Board in ad-

ministering the Conservation Districts and in processing requests for use of Conservation District lands. The office assists in developing conceptual plans for use of State lands and reviews project plans and environmental statements of various public agencies. It also reviews plans submitted for comment by public agencies exercising development controls. The office coordinates the development of Program and Financial Plans of the operating divisions for the State PPB system and is responsible for developing an inventory of State lands.

PERSONNEL OFFICE

The Personnel Officer and his small staff maintain a comprehensive personnel program within the Department, including support of the Chairman and division heads in recruitment and selection of personnel, training and development of staff and employees, appraisal and counseling of personnel, and in improvement of safety and working conditions. The staff maintains a complete personnel file for each employee of the Department.

With the ratification of contracts by the membership of five bargaining units, the workload in contract interpretation and administration has risen significantly. Also, the passage of the Hawaii Occupational Safety and Health Law has placed additional administrative responsibility on this office to up-grade our safety program to effectively respond to the requirements of the law.



A follow-up inspection of a completed CDUA involving construction of a 138 KV transmission line within the mountainous forest reserve areas on Oahu.

DIVISIONS

The line divisions of the Department operate under the broad direction and control of the Chairman of the Board, generally within specific resources areas of the State: including the public lands; the Conservation Districts; water resources; forests and water reserves; fish and wildlife; and the park lands and the historic sites and places. Recordation, although not strictly a resource area, is included within the functions of the Department, since it is directly related to the control and transfer of lands and property within the State.

The stated objectives of the Board are increasingly being dealt with in the statewide Planning-Programming-Budgeting System (PPBS). Within the PPBS, the Department is concerned with five major program areas: Economic Development; Protection of the Environment; Leisure Time; Public Safety; and Government-Wide Support. This program approach to management of the natural resources has tended to reduce the dependence on resource planning and management by individual divisions, and has significantly increased the multi-divisional approach to broad program areas in which Departmental goals and objectives become the guide for resources allocation and actions.

CONVEYANCES

The Division of Conveyances is the single agency within the State of Hawaii authorized to receive and record land title documents, maps and other legal documents relating to land transactions. Official records of all past and current real estate transactions are preserved in the files of the division.

Under statutes, the division is organized and operates as two distinct parallel sub-units to accommodate to the unusual dual system of land registration.

The Land Court Registration Branch is directly concerned with receipt, filing, processing, and registering of Land Court title documents and maps affecting registered lands; and with issuance of certified copies of such documents and maps.

The Regular Registration Branch is directly concerned with receipt, recording, processing and maintaining of all legal and land title documents and maps affecting non-registered lands entitled to recordation.

FISH AND GAME

The Division of Fish and Game is concerned with the preservation, development and management of Hawaii's fish and wildlife resources. Its principal activities are to (1) preserve fish and wildlife species for their intrinsic and ecological values as well as their direct benefits to man; (2) provide for diversified recreational use of fish and wildlife; (3) provide for an economic contribution of fish and wildlife in the best interests of the people; and, (4) to provide for scientific and educational use of fish and wildlife.

The Division is organized into three operating branches—Fisheries, Wildlife and Enforcement, and one supporting unit—Office Services. The Fisheries Branch is further divided into the Marine Fisheries, Freshwater Fisheries and the Fisheries Station Sections. The Wildlife Branch is organized into four geographical sections, one for each county in the State, and a Special Projects Section. The Enforcement Branch is also organized into county sections.



Photos by Alvin Kyono

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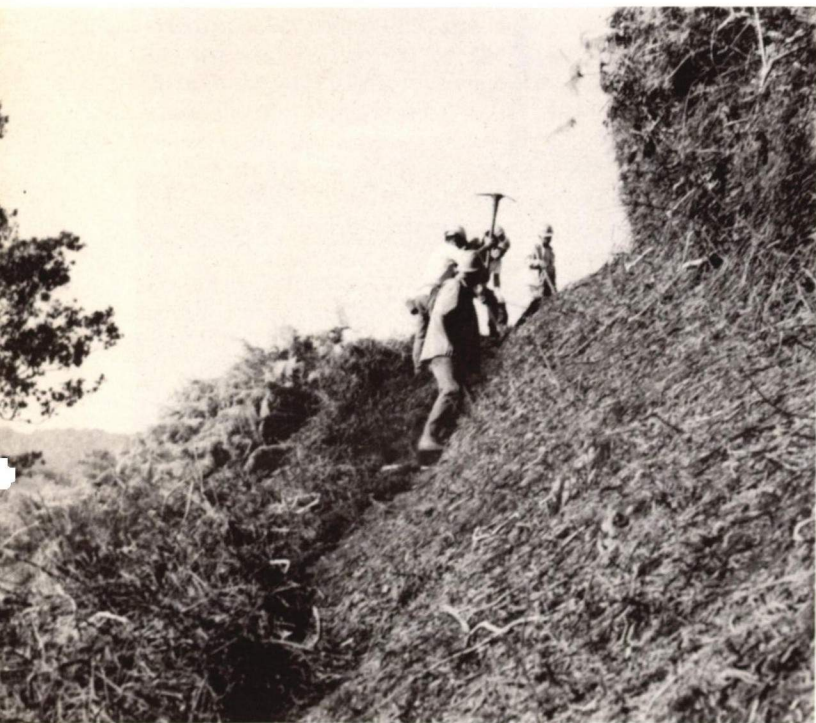
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Photos by Alvin Kyono

LAND MANAGEMENT

The Division of Land Management conducts the public lands management program of the State. This program includes the development of public lands for residential, agricultural, resort, industrial and other uses; the disposition of public lands to meet approved public and private needs; acquisition of non-public lands and other properties to meet the needs of public agencies; and the inspection of public lands and enforcement of conditions of disposition contracts.

Division staff activities include review and analysis of land use requests; recommendations for specific uses, or for non-use of lands; inventory and appraisal of public lands; title searches of public and private lands; negotiations for dispositions and acquisitions, and processing land use requests for disposition or acquisition. The staff works with the Department Planning Office in land use and project planning. Liaison is maintained with the engineering staff of the Division of Water and Land Development in carrying out land development projects.

STATE PARKS, OUTDOOR RECREATION AND HISTORIC SITES

The Division of State Parks, Outdoor Recreation and Historic Sites has a primary function of providing opportunities for outdoor recreation and cultural enrichment for the public. The Division is responsible for developing and operating a State Parks System and for maintaining and coordinating, with other State and private organizations, programs related to sites and places of historical or archaeological significance.

The Division functions with three operating branches: Planning, Development and Resources Management. In addition, there is a supportive services unit which provides clerical and administrative assistance for all units, and which also conducts archaeological and historic surveys. The Resources Management Branch which operates and maintains the parks system, has separate units in each of the four Land Districts of the State. All other activities and functions of the Division are centralized in the Honolulu Office.

The 1972 Annual Convention of the National Conference on State Parks, in Honolulu, Hawaii, attended by 325 conferees representing virtually every State in the Union, was hosted by the Department in October 1972. The conference theme, "Shoreline Zoning, Outdoor Recreation's Future," drew much interest and the conferees actively participated in three panel discussions relating to shoreline zoning problems. A highlight of the conference program was Lieutenant Governor George R. Ariyoshi's address on the growth of Hawaii's State Park System.



Wiliwili tree within a Natural Areas Reserve

WATER AND LAND DEVELOPMENT

The Division of Water and Land Development is involved in the planning, development, utilization, and protection of water resources of the State. The Division coordinates Federal, State and County water programs; participates in joint programs with the U.S. Geological Survey, National Weather Service, Soil Conservation Service, Corps of Engineers, Water Resources Research Center, and the County Boards of Water Supply; conducts long-range comprehensive water planning; enforces ground water statutes; conducts project feasibility studies; and develops State-sponsored water projects. Flood control programs in the State are also coordinated by the Division and administrative support is provided the Soil and Water Conservation Districts of the State. In addition, the Division operates and maintains irrigation systems at Waimanalo, Oahu; Lalamilo, Hawaii; and on Molokai.

The Division is organized into four operating branches: Water Resources and Flood Control; Project Development; Design and Construction; and Water Distribution and Maintenance. Professional engineering staff from within these units provide engineering support to other operating divisions of the Department.

SECTION II

PROGRAMS FOR ECONOMIC DEVELOPMENT

Many of the principal Departmental programs, and especially those which relate to the development and utilization of Public Lands and other natural resources within the control of the Board, have significant and far-reaching effects on the overall economy of the State. These programs must be carefully coordinated with similar programs carried on by other State and County agencies, and with activities of private interests in the State.

Land Development

During F.Y. 1972-1973, two major construction and three design contracts were let for land development projects on Public Lands. The construction contracts are for houselot developments on the Islands of Hawaii and Kauai. One of the design contracts is for a 40-houselot subdivision at Kahei, North Kohala, Island of Hawaii; one is for a combination farm/houselot subdivision at Keonipoko, Puna, Hawaii, and the third is for design of roads and utilities for Sand Island, Oahu. Construction contracts amounted to \$390,500 and design contracts \$191,000, for a total of \$581,500.

A 40-lot residential subdivision at Waiakea, Hilo, Hawaii is scheduled for completion and sale in F.Y. 1973-1974. The 28-lot Mango Grove increment of the Wailua, Kauai, Houselots will also be completed and offered for sale during the coming fiscal year.

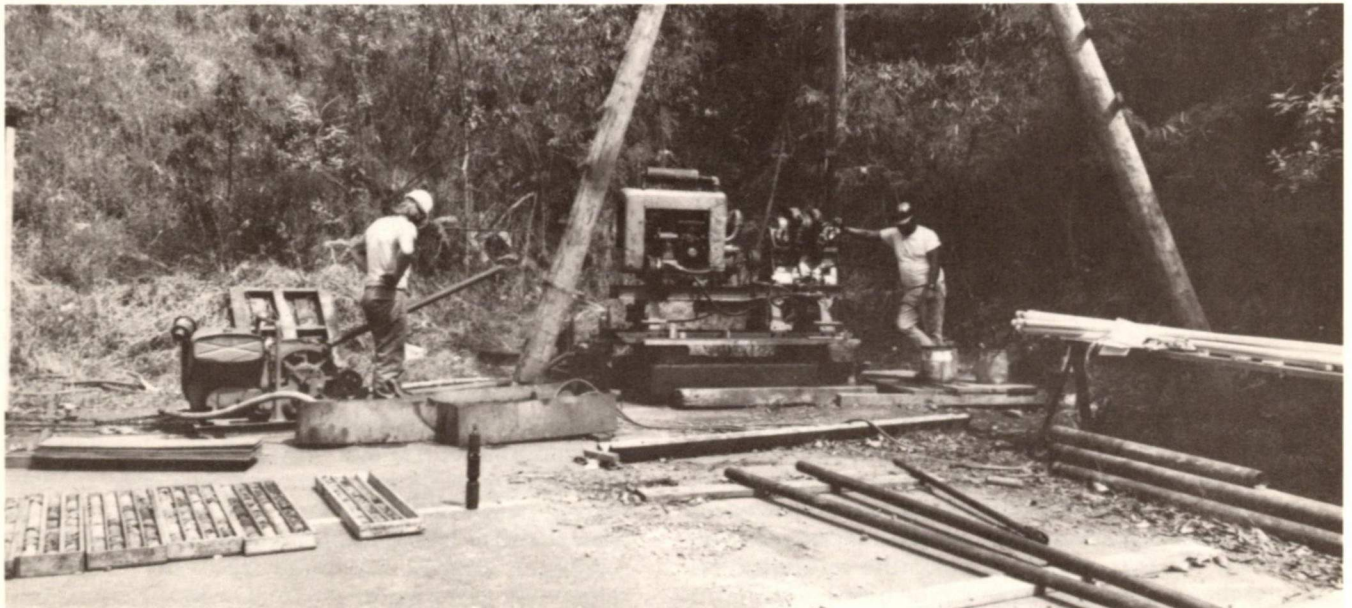
Also on Kauai, the 29-lot Hanapepe Heights Houselots subdivision has been completed and will

be sold in August, 1973. The 14-lot Waimea Heights subdivision has been delayed and will be completed and sold during F.Y. 1974-1974.

On Maui, the 71-lot increment of Wahikuli Houselots was completed and sold. Sale was at public auction in keeping with sale of prior Wahikuli increments. The Hanapepe Heights lots will be sold by drawing but the Waimea Heights houselots will probably be sold at public auction. The Kahei, Kealahou and Puna Houselots on Hawaii are also planned for disposition by drawing.

Program responsibility for Sand Island development will end with completion of the present design contract and construction of the roads and utilities to serve the park and other future developments. Some 150 acres are being developed to park use and another 100 acres are being kept in reserve against future needs—park or industrial. Fifty acres are being set aside to the City and County of Honolulu for a major sewage treatment plant; 40 acres are intended for expansion of the Foreign Trade Zone, and most of the remainder is planned to be set aside to the Department of Transportation for waterfront activities and waterfront industrial use.

Revenues generated by the Land Management program continue to exceed \$4 million for lease and permit rentals, and for land and water licenses. Over a quarter million dollars was realized in collections from the sale of public lands and from interest on deferred payments during the fiscal year.



The Department drills test wells at selected points throughout the State to determine suitability of the water in underground aquifers for domestic and other uses. This Kepaniwai Test Hole in Iao Valley, on the Island of Maui, is a typical example of these water development activities.



The *M. V. Mokiha*, a ninety-foot steel longline fishing vessel, is the third such vessel constructed with funds provided through the Hawaii Fisheries New Vessel Construction Loan Program.

Anuenue Fisheries Research Center

The Anuenue Fisheries Research Center was dedicated in March 1973. The Center, adjacent to the proposed Sand Island State Park in Honolulu, now centralizes all fisheries, aquaculture and marine enforcement field activities previously conducted at the Kewalo Basin and Keehi Fishery Stations. The cost of relocating the facility was absorbed by Hawaiian Independent Refineries which needed the Keehi Fishery Station site for oil storage. In addition to the resident quarters and office buildings that were moved from the Keehi Station, facilities at the four-acre Center include a new 7,000 square-foot floor-area building which houses a laboratory, trout hatchery, workshop and storage area; and 30 circular 5,000-gallon and 18 rectangular 3,000-gallon outdoor aquatic rearing tanks with volume and salinity controls.

AQUACULTURE

Oyster

The oyster project was dealt a serious setback in July 1972 with the occurrence of an extensive oyster kill in West Loch, Pearl Harbor. An investigation to determine the extent and cause of the mortality indicated that nearly 99 percent of the oysters on the 19 major oyster beds were lost. The cause was suspected to be a disease rather than a toxic substance since only oysters were affected while other organisms in-

cluding fish, crab and shrimp, abundant in West Loch, were not. Also, spot checks of the other two Lochs in Pearl Harbor (Middle and East Lochs) indicated that the kill was confined to West Loch. To pursue the investigation further, live and shucked oysters were sent to the U.S. Environmental Protection Agency's Southwest Laboratory at Alameda, California and to the National Marine Fisheries Service's Shellfish Pathology Laboratory at Oxford, Maryland for examination. The State Department of Health also examined samples of water, oyster and crab from West Loch to determine their pesticide and heavy metal contents. Although the cause of the kill was not determined conclusively, an epizootic is probable since the Shellfish Pathology Laboratory reported finding 52 percent of the live West Loch oyster samples infected with a fungal parasite similar to *Dermocystidium marinum* (*Labyrinthomyxa marina*), that had been reported to have caused massive oyster kills in the East and Gulf coast areas of the mainland U.S.

Efforts are being made toward replenishing the depleted stock of oysters in West Loch through natural repopulation, and if this progresses too slowly, consideration will be given to restocking the beds with oysters obtained from other natural areas and from shellfish hatcheries.

A report entitled "Commercial Oyster Fishery Development Investigation" which presents the results of various studies conducted by the Division of Fish and Game to establish a commercial oyster fishery in Hawaii was completed in May 1973.

Prawn

Internationally recognized for development of techniques for mass culturing of the Freshwater Prawn (*Macrobrachium rosenbergii*), the aquaculture program broadened its activities during the year by providing information and consulting services to local, national and international research agencies and private companies, and by supplying adult and juvenile prawns to many biological laboratories throughout the world.

Further, as our staff has broad knowledge in the culture of freshwater prawn they are being asked to share this knowledge with others. Thus, as the principal training agency, the Department has conducted an intensive three-month training program on freshwater prawn culture for both United States and foreign trainees in cooperation with the East-West Center and Hawaii Institute of Marine Biology of the University of Hawaii, the Oceanic Institute, and Fish-Farms Hawaii Incorporated. The training program provided instructions and practical experience in all phases of prawn culture from hatching of the eggs to rearing of prawns to market size as well as selection of sites, designing, construction, and operation of hatchery and rearing ponds.

The new larval rearing facilities at the recently completed Anuenue Fisheries Research Center are now equipped to produce more than two-million juvenile prawns per 40-day rearing cycle during the summer, and will enable the program to supply young prawns for as much as 100 acres of rearing ponds. The Pacific Aquaculture Corporation, a local company, encouraged by this production capability, has initiated construction of a 100-acre prawn farm on Oahu which hopefully will be the largest commercial freshwater prawn operation in the world.

In addition to the continuous effort expended toward improving prawn culture techniques, studies are being conducted on the development of suitable inexpensive feed for the prawns and on potential epizootics, in cooperation with the Hawaii Institute of Marine Biology and the Animal Science Division of the University of Hawaii. Other areas of research such as nutritional requirements and selective breeding are also being considered for the future.

Hawaii Fisheries New Vessel Construction Loan Program

The Hawaiian tuna fishery was strengthened with the addition of the *M.V. Mokihana* in April, 1973. The 90-foot, steel-hulled longliner constructed in Tacoma, Washington is owned by the Honolulu Fishing Corporation and is the third modern tuna fishing vessel constructed with funds from the Hawaii Fisheries New Vessel Construction Loan Program, which is administered by this Department. The *Mokihana* was constructed and equipped at a cost of \$337,500 of which \$270,000 was provided as a loan under the program.

The *Mokihana* with her 5,200 mile cruising range, 70 ton refrigeration capacity and many other modern features, will join the two other steel-hulled tuna vessels *Kilauea* and *Anela* that were previously constructed with assistance from this program. The *Kilauea*, a 79-foot longliner dedicated in 1969, has consistently outfished other longline fishing vessels in the fleet; and the *Anela*, a 100-foot aku (skipjack) fishing vessel dedicated in 1971, was one of three aku vessels that caught more than a million pounds of tuna during calendar year 1972, although she fished only for a period of six months.

Other accomplishments of the program included the near completion of a sistership to the *Mokihana* at the same shipyard in Tacoma and the processing of two applications for new vessel loans.

The status of the loan revolving fund as of June 30, 1973 was as follows:

Total Funding	\$900,000.00
Loan repayments (principal and interest)	95,550.43
Total receipts	\$995,550.43
Loans	906,398.00
Fund balance	\$ 89,152.43

In order to replenish the revolving fund, an additional \$300,000 was appropriated by the State Legislature under Act 218, SLH 1973.

Commercial Fishery Management and Development

This program is concerned with the management and development of the commercial fishery and with maintenance of the resource in a state of abundance so as to assure maximum sustained yield. Management oriented biological studies of commercially important fish and shellfish species were carried out to provide data needed for promulgation of laws and regulations for management of the resource and for public information. Commercial fisheries statistics were compiled and analyzed to determine effects of fishing on the stock of fish.

During the year, reports were prepared on two species of spiny lobsters (*Panulirus japonicus* and *P. penicillatus*), the kona crab (*Ranina ranina*), and the akule (*Trachurops crumenophthalmus*).

A draft report entitled "Environmental Factors Affecting Stress and Mortality of the Hawaiian Anchovy (*Stolephorus purpureus*) in Captivity" was received from the Hawaii Institute of Marine Biology of the University of Hawaii which carried out the study under contract to this Department. The report outlines the optimum environmental factors; including handling, salinity, oxygen, temperature and other conditions; that are required to reduce the mortality of the nehu, the principal Hawaiian baitfish, in baitwells of vessels in the Hawaiian aku (skipjack tuna) fishery.

Forest Products

Experiments conducted by Department foresters indicate that maile can be successfully grown as a commercial venture. One farm in the Kona area reports successful cultivation of maile and a market for all the maile they have been able to grow.

The Department supports Arbor Day in many ways in Hawaii—from providing recommendations and planting material to schools and other public agencies to the propagation of native plants for planting by individuals who are interested.

District forestry units work with local public service organizations to supply planting stock for an annual Arbor Day tree planting promotion. Typical is the Kauai promotion which is cooperative effort between business and government organizations consisting of the Kauai Chamber of Commerce, who provide the booth personnel for the sale; the Lihue Shopping Center, who provide a central location and the booth for the promotion; and the Kauai District Forest Nursery, which provides the planting stock and planting advice.

The purpose of the Arbor Day tree sale is primarily educational. A major goal is to educate the public to the beauty and advantages of trees, and to promote environmental consciousness. Rather than a "give-away" promotion, a nominal fee is charged. We find that individuals will take better care of plants they pay for. The profits derived by the Kauai Chamber of Commerce, above the Departmental charge for the seedlings, is used by that organization for beautification and environmental programs.

To insure proper utilization of wood products the U.S. Forest Service Institute of Pacific Islands Forestry conducts continuing studies of wood properties. Tropical climates present warm, moist conditions where decay and insects are serious hazards.

Cooperative Forest Management

The Cooperative Forest Management Program is a joint State-Federal program designed to help private landowners develop sound forest land management practices, and to help the forest products industries develop viable long range operations.

A total of 427 requests were serviced during the fiscal year. They varied from over the counter advice, to development of a wood chipping operation on Hawaii, and scheduled to go into operation in 1974. Private as well as state-owned eucalyptus timber will be utilized. There are three full-time sawmill operators in the State: Maui Hardwoods, Inc., Hawaiian Timber Products, Inc., and Blair Ltd. The latter two operations are located on Hawaii.

Eucalyptus timber on Hawaii has generated considerable attention and stimulated a number of inquiries regarding its availability from the Japanese entrepreneurs. Sample shipments, including cut lumber and blocks, were made available. A number of



Selective hapuu' harvest entails removing the larger inactive portion of the tree fern. Here, the live up-right ferns are by-passed.



Hapuu' harvesting involves a lot of manual labor. Here, a multiple stem chunk is bucked into less than foot sections to facilitate separating the fiber from the core. Note light crawler tractor used primarily to minimize site disturbance.



Only the larger inactive down fern warrants removal. The live ferns contains too large a core section. The use of cord size cages on sleds for transportation is common.



Live tree fern tops are scattered over the skid roads. This rehabilitation method will ensure perpetuation of the species and a sustained yield program. Noxious weed control is also a very active portion of the program.

similar shipments were requested by several U.S. lumber operators. Obviously, the worldwide hardwood shortage is critical. Eucalyptus lumber, seasoned properly, will lend itself to a variety of uses. Our forests and their high growth potential are attracting considerable timber industry interest.

Department foresters have coordinated three small timber sales totalling over 200 thousand board feet; with an average return of over \$1,000 per landowner. A number of landowners have expressed interest in tree planting programs, providing they can sell their timber. The key to private investment is a reliable forest products processor.

Department foresters are directing a timber inventory of the complete windbreak network on the Parker Ranch. The ranch, anticipating a timber sale agreement with the wood chipping industry, is interested in a sustained yield timber program. The original stands will be maintained or even increased depending on the viability of the industry.

Efforts to develop mainland markets for Norfolk Island Pine Christmas trees has been disappointing. Quality control has been a major problem and mainland wholesalers are reluctant to get involved with island trees. The local market for quality Norfolk Island Pine Christmas trees remains good.

The outlook for a sustained supply of koa timber remains bleak. Most koa sites have been converted to grazing land by private landowners. Unless insect and disease problems affecting koa can be overcome and private landowners can be persuaded to dedicate their land to koa production, the future of koa as a beautiful craft and furniture wood will follow black walnut into legend.

To solve the technical problems, koa silviculture is being studied. Koa (*Acacia koa*) forests can now be established by means of planted seedlings. Koa seedlings, grown in styroblocks, can be dibble-planted in the field. The styroblock system is efficient in the nursery and in the field, and the seedlings are biologically sound. Survival of the initial koa styro-plug plantings has been over 90 percent and the seedlings have generally made rapid early growth.

To determine the relative durability of wood under severe conditions, the U.S. Forest Service established two test exposures of wood at Makiki, Oahu. Eight Hawaii-grown and seven imported wood species have been evaluated over a period of 9-1/2 years. They confirm the superior durability of Redwood. The eucalyptus tested were also durable, much more so than Douglas-fir, Philippine mahogany and Western redcedar. White oak, tropical ash, Koa, and Western hemlock were generally non-durable under these severe test conditions. These later woods must be chemically treated if they are to be successfully used in moist conditions or exposed to insect attack.

Water Development for Domestic Use

The Department, through legislative mandate or at the request of county departments of water supply, assists the counties with the planning, engineering and development of water sources, transmission mains and storage facilities. After construction, the improvements are turned over to the counties for operation and maintenance.

During the past year the Department assisted the counties in the planning, designing and construction of 18 domestic water projects. Total cost of these projects is about 3.2 million dollars.

For the Hawaii County Department of Water Supply, the Department is presently preparing contract plans and specifications for a water development shaft in Kahaluu, North Kona. This shaft will provide the Kona water system with a major water source, which will be capable of serving the demands of the fast-growing Kona area. The Department also has located a new source of water for the Hilo water system. A well was drilled in the Piihonua area in March, 1973, and when tested it was found that this source will provide the highest quality water in the State to the city of Hilo. In 1971 a new source of water was discovered in Naalehu, Kau. This well is now being equipped with a pump, electrical controls and the necessary piping needed to connect this source to the Naalehu system. A well drilled this year in Kiholo is capable of developing water with a chloride content of approximately 400 parts per million. This well will be used as the source to irrigate the park development in the area. In the Volcano area, test holes were drilled at locations and depths recommended by Dr. Gordon MacDonald of the University of Hawaii. These holes were drilled to determine the possibility of developing perched water from this area. Some water was encountered in two of the test holes and the Department is now conducting water table measurements through seasonal periods to determine the extent and reliability of this source. Capacity of the South Kohala Water System was increased by constructing the second 50-million gallon reservoir in Waikoloa. This reservoir is scheduled to be completed in April 1974.

The Department is assisting the Maui County Department of Water Supply by developing new sources of water, by constructing system facilities, and by making a study of the Kula Water System in an effort to alleviate the droughts which continue to plague this area. In the West Maui system, which extends from Lahaina to Napili, a successful well was drilled in Napili in March and plans are now underway to construct a pipeline connecting this well to a million-gallon storage tank at Alaeloa, and to the existing system along Honoapiilani Highway. A second well was drilled at Napili and found to be a good source of potable water. This well will also be connected to the system. A successful well was drilled in Kanaha Valley, Lahaina and plans are presently being prepared

to develop the well and for construction of storage tanks and pipelines to connect this well to the Lahaina water system. A second well at Kanaha is presently being drilled and present indications are that this well will be successful. To improve the system capacity in Central Maui and Kihei, a contract has been awarded for the drilling of a production well at Kepaniwai Park in Iao Valley, and plans are being prepared for the drilling of a well at Waikapu.

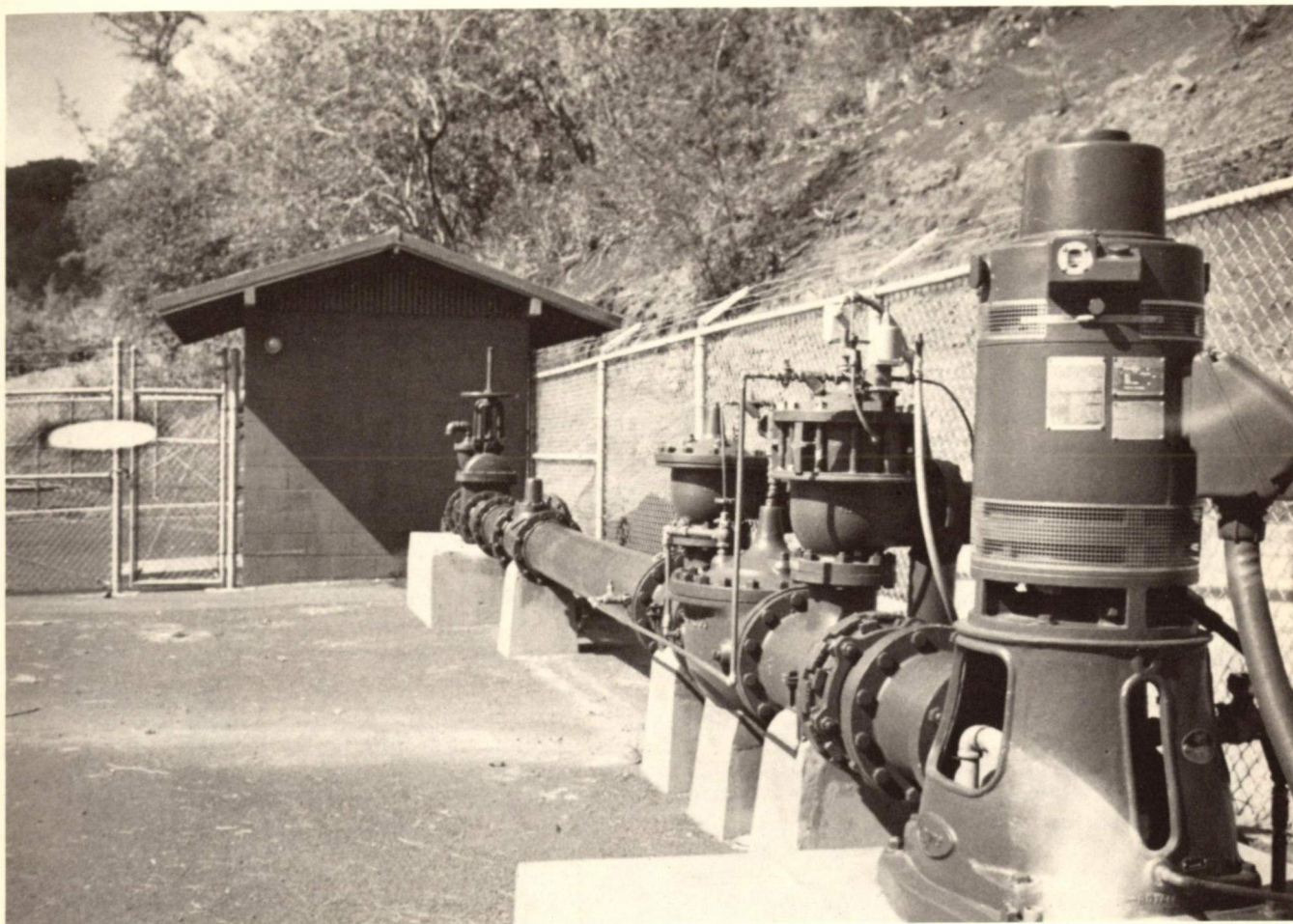
The Department is assisting the Kauai Department of Water by developing water sources and constructing a water treatment plant to improve the capacity and quality of water in four of their systems. A 2-million gallon concrete tank, which will be the largest concrete tank on the island of Kauai, is being constructed at Nonou. This tank, together with the development of a third well; the construction of a major pipeline through Wailua Houselots from the new 2-million gallon tank to the highway; and the installation of a transmission main through the Kapaa business district; will enable the Wailua-Kapaa system to better serve the fast-growing resort and residential developments in the area. The quality of water in Kalaheo is being improved through modifications to the existing water treatment plant. A new well source is presently being drilled to serve Lihue and new wells are being planned for Hanapepe and Kalaheo. At Kekaha, a new well source is being equipped with a pump and electrical controls. A half-million gallon concrete tank and connecting pipelines to boost the capacity of the Kekaha system is also being constructed. In Koloa-Poipu, a pipeline along the Lawai Beach Road to the Kukuiula Small Boat Harbor is scheduled to be completed in September 1973.

The Department, at the request of the Kauai Department of Water, completed a study of the Kauai domestic water system and prepared a report entitled, "A General Plan for Domestic Water—Island of Kauai." This report presents information for orderly planning, programming and development of water improvements to meet the future needs of the island of Kauai.

Irrigation Systems

The Department operates the Waimanalo Irrigation System on Oahu, the Waimea-Lalamilo Irrigation System on Hawaii, and the Molokai Water System.

The Waimanalo Irrigation System serves 95 small farmers who operate truck farms, floral and foliage nurseries, and banana and papaya orchards on 921 acres of farm lands in the Waimanalo area. The weather conditions in the Waimanalo area have been abnormally dry resulting in a low supply of water from the source area. Water service was reduced from the normal three times a week to twice a week. The rainfall this year measured only 18.86 inches as compared to a relatively light 36 inches recorded in the previous year. The system sold nearly 159 million gallons of water, 1 million gallons less than the previous year.



Test wells which find economically developable quantities of potable water, are frequently completed and cased, and equipped with pumps. Water from these sources is then added to supplies utilized by the County Boards of Water Supply, as with the Nonou Well No. 3, at Wailua, Kauai.

A tomato farm operation utilizing crop shelters with environmental controls and sophisticated cultural practices appears to be very successful. Floral and foliage nurseries, banana and papaya orchards, corn, snapbeans and vegetable production are all on the upswing in Waimanalo.

The Waimea-Lalamilo Irrigation System serves 26 farms in Lalamilo. Truck crops, floriculture, a State tree nursery and the University of Hawaii Experiment Station occupy approximately 207 acres. A record high of 140,646,850 gallons were sold this year, approximately 12 percent over last year.

Approximately 6 million pounds of produce were harvested and processed for marketing.

A major change to the irrigation system was made this year. The low pressure irrigation system was replaced with high pressure pipelines, which substantially reduced the water losses in the system and has improved the service to our consumers.

The Molokai Water System irrigates 7,779 acres of pineapple lands operated by Del Monte Corp. and Dole Corp. at Kualapuu and Maunaloa, and 243 acres of farmlands operated by Hawaiian Homesteaders and some private individuals in diversified

crops; principally feed corn, snow peas, onions, sweet potatoes, eggplant, tomatoes and sweet corn. During the past year, a group of young homesteaders formed a partnership called "Na Hua Ai" and started a demonstration farm using the drip irrigation system. Principal crops being planted are eggplant, tomato and bell pepper.

New water sources are being developed in the Wai-kolu Valley to serve irrigation water to West Molokai. Project includes a diversion dam located at the 750-foot elevation of Waikolu Stream. Pumps and pipelines are also being installed to transmit the water from the new diversion structure to the Molokai tunnel. The project is scheduled to be completed in late 1973.

A contract with Kaluakoi Development Corporation is being consummated for the leasing of pipeline space in the Molokai Irrigation System. This space will enable Kaluakoi to convey two million gallons of water from their water sources located in Kaunakakai to their planned resort development on West Molokai. The State will retain the right to terminate this agreement should the pipeline space be needed to serve irrigation water to the farmers in West Molokai.

SECTION III

PROGRAMS FOR PROTECTION OF ENVIRONMENT

Protection and preservation of the natural or physical environment within the State is a primary responsibility of the Board. This function involves not only those resources under the direct control of the Board, but also in some instances total resources throughout the State. Virtually all of the Departmental programs are planned and carried out with some degree of awareness of the overall need for conservation measures. Some programs are however directed specifically at protection of environmental elements.

Conservation Districts

The Department has the responsibility for control and management of land use within the Conservation District of the State. Requests for change in land use in the District, whether public or privately owned, must have the approval of the Board of Land and Natural Resources. During the fiscal year, 110 applications were received for processing by the staff. The applications were as varied as the development activities in the State and include requests to construct residential dwellings, commercial facilities, water reservoirs, utility lines, boat docks, micro-wave towers, harvesting of forest products, install power lines, etc.

Revision of the Department's Regulation 4 is still proceeding with assistance from the consulting firm of Overview Corporation of Washington, D.C.

Kahoolawe

The Department of Land and Natural Resources is continuing experimental plantings of trees, shrubs, and grasses in exclosures on the Island of Kahoolawe. After two years, results show 8 of the species of trees and shrubs tested appear to be suitable for windbreak development and erosion control plantings on the island. Five of the eleven varieties of grasses tested rated good to excellent in overall growth.

In addition to these earlier trials, 946 seedlings were planted during February 1973. Thirteen of the 28 species were native trees and shrubs, most of which were once recorded growing on the island.

A six-year planting program to establish a protective windbreak for some 300 acres of barren wind-swept lands near the summit of Lua Makika has been developed. These windbreaks will provide barriers to prevent further loss of soil and to help retain soil moisture.

The Navy has conducted an effective goat control program to reduce grazing pressure on island vegetation. A goat census conducted by the Department in February 1973 totalled 1,500 animals, a 70 percent

reduction in 1970 population estimated at 6,000 goats and sheep. No sheep have been seen on the island recently, but so long as one pair of goats remain on the island, the control program must be continued. Relaxation of the goat control program for even a short period can cancel all the work done to rehabilitate the Kahoolawe Conservation District.

The conservation work carried out on Kahoolawe by the Department is supported by the U.S. Navy, the U.S. Forest Service, and the U.S. Soil Conservation Service.

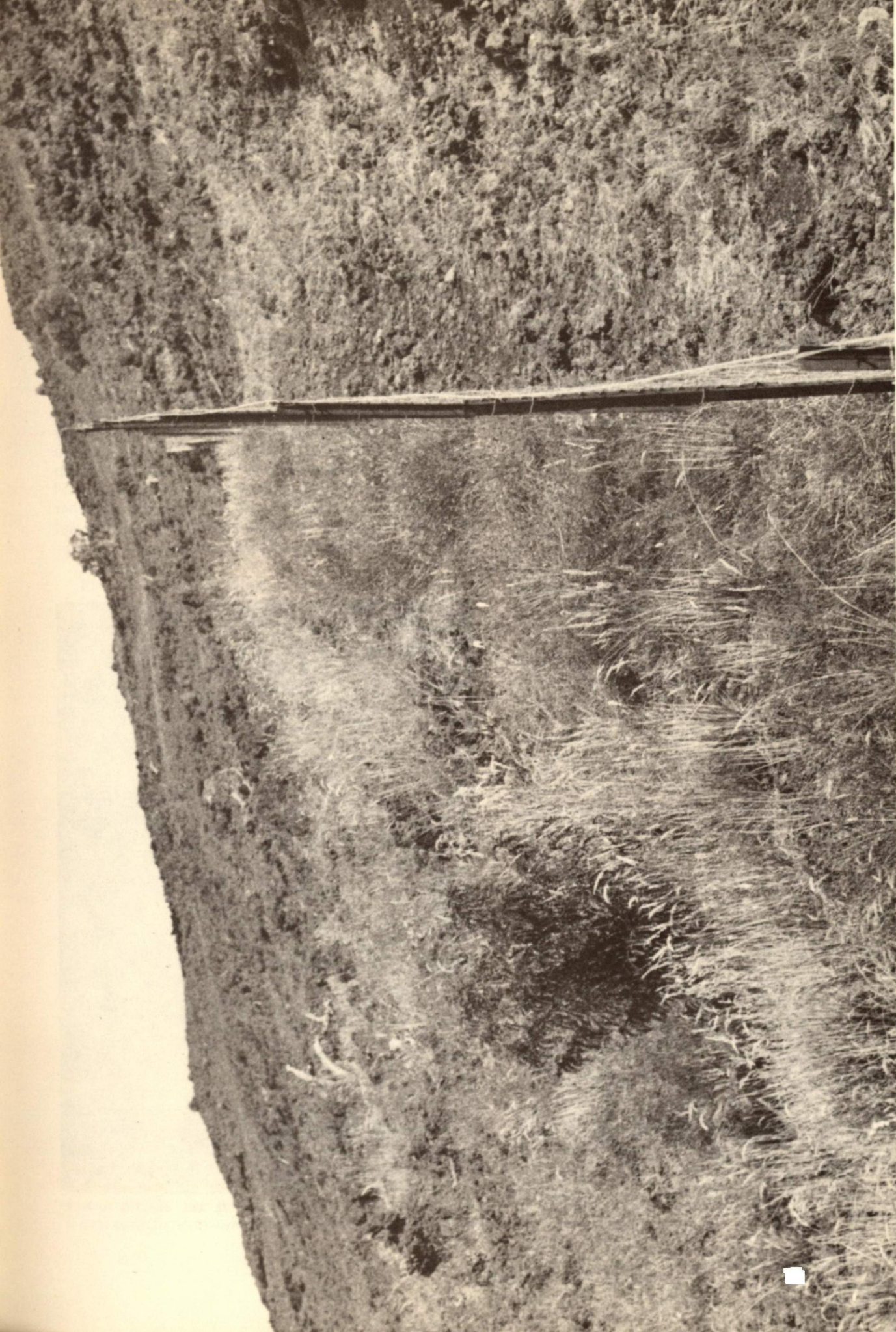
Natural Areas and Natural Vegetation Management

The Department is attempting to protect the native plant communities of Hawaii in several ways. Most important are undoubtedly the fencing program and feral cattle control activities conducted during the establishment of the Forest Reserves. The fencing program is still effective in controlling cattle grazing. However, many of the fences are old and cattle trespass problems are becoming more frequent.

The damage caused by goats and pigs has been well documented. Problems associated with browsing native species, rooting, and spreading exotic weeds are all too evident. Tuberculosis infected wild cattle on Molokai have been recognized as a problem for a decade. Finally, it became obvious that the condition was critical. The threat of infection to both Axis deer and domestic cattle could no longer be tolerated.

On September 29, 1972, Governor Burns proclaimed a state of emergency. The Department cooperated in a joint program with the Department of Agriculture and National Guard to remove 186 head of wild cattle from State and private forests. "Operation Hui," the great Molokai Cattle Hunt, was a success due to cooperation of the three agencies, and the support of the Molokai community.

The effect of sheep browsing mamani on Mauna Kea has been argued for many years. In recent years this argument has grown to heated controversy. A demonstration area has been established to provide conclusive evidence as to the effect of sheep on the mamani forests. Five protective exclosures have been erected in declining mamani forest areas on Mauna Kea. The natural recovery of vegetation is being recorded and the data compared to measurements in similar unprotected sites. Changes are measurable within just a few weeks after the exclusion of sheep. After a few months the visual difference is dramatic. Portions of each exclosure will be used to evaluate artificial revegetation methods.



Feral animal exclosure on Mauna Kea, Island of Hawaii. Studies conducted in cooperation with the US Forest Service determine the effects of feral sheep, goats, and pigs on the unprotected native plant life in the area.

Mamani Forest rehabilitation efforts have been frustrated by the fact that viable mamani seeds do not germinate readily. An effective means of breaking the seed dormancy is required if artificial regeneration is to be considered as a possible practice. The Institute of Pacific Island Forestry has gathered 120,000 mamani seeds and subjected them to several common treatments, the most effective of which do increase germination significantly.

Goat browsing on silversword has nearly eliminated the plant from the island of Hawaii. A survey conducted by Department foresters has found remnant plants on Mauna Kea and Mauna Loa in small, remote areas. One such area on Mauna Kea has been fenced to exclude goats and a pilot propagation program has been started. Silversword has been successfully planted at Puukihe and at Red Hill.

The Department has implemented a native arboretum and natural area program designed to maintain specific sites representative of native ecosystems. These sites are protected from encroachment of exotic weeds, and frequently the diversity of native plants is improved by introducing plants which had grown in the area. This program supplements the natural area program in that it is an area where native plants are artificially propagated in a natural environment.

The Department continues to work with the Natural Area Reserve Commission providing information, support and recommendations for their activities.

Forest Protection

The epidemic decline of the ohia forest continues to be a major problem. To provide information concerning the severity, location, and rate of spread of the decline, the Department, jointly with the U.S. Forest Service contracted for color aerial photography of some 200,000 acres on Hawaii. This area has suffered the most severe decline. Comparing the forest as shown in these new pictures with the same area as shown in 1954 and 1965 photographs is providing data on severity, location, and rate of spread of the decline. A publication with maps and area estimates is forthcoming.

Research into the cause of the decline is continuing with the cooperative efforts of the B.P. Bishop Museum and the University of Hawaii, supported by substantial grants from the U.S. Forest Service.

No single cause has been identified as yet for the epidemic death of the trees. Positive growth response of low vigor trees has been obtained on a small plot from the application of complete fertilizers; whereas applications of single elements are not effective. The cerambycid beetle (*Plagithmysus bilineatus*) associated only with ohia is common and active in the decline area. Scolytid beetles (*Xyleborus dubiosus* and *X. saxeseni*) were recorded for ohia for the first time. The possible role of these three beetles in the decline is being intensively assessed. Heavy psyllid infestations and numerous wood-boring insects are usually found in areas of active decline. Work on the pathological, entomological, and nutritional aspects is continuing.

The cooperative Federal-State forest entomology program suffered a severe setback in 1972 with the December resignation of the Forest Entomologist. Attempts to recruit a replacement were complicated by the hiring freeze, and by inter-departmental communications and jurisdictions. As of the end of the year, the position was in the process of transfer from the Department of Agriculture to this Department.

During the first year and a half of operation, the forest entomology program was beginning to show the extent of the forest insect and disease problems in Hawaiian forests. The eurasian pine aphid was discovered on Hawaii and subsequent surveys showed the pine tree killer to be established in Oahu and Hawaii Counties. A small infestation was found on bonsai ornamentals in yards at Olinda, Maui. An eradication program was started on Maui and a biological control program was started for long range control where the aphid is established. A potentially deadly fusiform rust was discovered on pines on Lanai and Molokai. Black twig borers have been documented killing eucalyptus above Waimanalo and two caterpillars, one introduced in 1926 and the other in 1969, have been causing serious defoliation and death of monkeypod shade trees.



Koa regeneration in the 500-acre logging unit. The koa seedlings are two years old and are fifteen feet tall.

The most immediate need in the forest pest control program is to develop a system to detect problems; to educate field personnel to recognize island problems; and to coordinate effective control programs to minimize forest pest problems.

Major forest and brush fires have blackened 13,000 acres of brush and range land throughout the State. Entire communities have been threatened on Hawaii; homes have been destroyed on Oahu; 100 acres of native forest on Lanai, containing rare and endangered species have been destroyed; and nearly 3,000 acres of Oahu watersheds has been damaged.

Arson, careless smoking and debris burning have been major causes of wildfire. Wind and drought conditions have caused extreme burning conditions during several fires on the island of Hawaii. Three fires exceeded 1,000 acres in size and 5 fires exceeded 100 acres. A few fires, burning under critical conditions, caused most of the damage.

Local fire fighters of the counties and the Department too often find large fires exceed their capabilities to control. An analysis of organizational and equipment needs has been completed and is being reviewed. This analysis shows particular need for communications equipment and specialized forest fire fighting equipment.

Identifying and forecasting critical weather periods is fundamental to intelligent response to a fire situation. Critical weather demands immediate maximum response to catch a fire while it is small. To assist in fire control planning and dispatching, a fire danger rating system has been developed and is currently being used on a pilot basis.

The Hawaii fire-danger rating system is derived from the National Fire-Danger Rating System, developed on the mainland by the U.S. Forest Service. The system provides six index values to rate fire danger at thirty locations, daily, throughout the State. These fire-danger index values are received at both the State Civil Defense Office and Police Headquarters on Kauai, Oahu, Maui, and Hawaii; and at the Honolulu Fire Department's Alarm Bureau on Oahu. Utilization of these fire-danger indices should greatly improve prevention actions and the readiness to respond to forest and brush fires.

Koa Regeneration Following Logging in Laupahoehoe

Virtually all koa timber harvested in Hawaii has been taken from private lands, normally in connection with converting forest land to pasture. In the Hilo Forest Reserve (Laupahoehoe Section) the Department is carrying out its first koa logging sale. The intent is to place several thousand acres of decadent, weed infested forest under intensive management—for timber, wildlife, and recreation.

In March 1971, the Board of Land and Natural Resources approved commercial harvesting of koa and ohia from a 500-acre portion of Hilo Forest Reserve. Harvesting of the matured koa and ohia trees was completed in February 1973; and in April 1973, the



Koa harvesting: Koa logs from the second 500-acre unit being loaded onto the truck for delivery to Hilo.

Board extended the Right-of-Entry for another contiguous 500 acre parcel.

Much basic information must be developed, especially on the effects of logging, the amount and distribution of koa seedling regeneration, and the influx of weeds. The U.S. Forest Service established a system of plots in the forest in 1971 to monitor logging effects and change. Measurements in the first 500-acre area logged show that much of the area was not physically disturbed. Because of selective harvesting, only 26 percent of the merchantable ohia and 30 percent of the merchantable koa volume were harvested.

In much of the disturbed area, koa seeds germinated rapidly. Seedling damage has been suffered from feral pigs, rats and insects, but, even so, vigorous



Banana poka control: Summer student hires working in Laupahoehoe forest controlling banana poka vines. This summer 140 acres were treated.

koa seedlings and saplings are now numerous. There are, however, areas still devoid of koa reproduction, a situation which can only be remedied by planting or seeding. While there has been no drastic influx of exotic weeds, a greater number of exotic plant species were tallied after logging than during the pre-logging measurements.

Banana poka, a climbing vine which poses a serious threat to the whole forest area, is spreading rapidly in both logged and unlogged areas. Koa seedlings outgrew competing banana poka vines during the first 18 months following logging. However, after two years, many young koa trees are infested with the vines. Intensive koa management requires that banana poka be controlled. At present the only effective control is to physically cut the vines with manual labor which is slow and expensive and may not be economically feasible. The present control program at Laupahoehoe will provide cost data and treatment frequency data. Logging and regrowth experience in Laupahoehoe may show that intensive management of overmature koa forest cannot be accomplished by light selective cutting. Cutting of larger even-age blocks may be a more successful approach. In any case, research to date has only scratched the surface of information requirements for intensive management of koa forests.

Water Resources

The Department is engaged in a program of water assessments, surveillance, broad comprehensive planning, research, and water management, and has been designated by the U.S. Water Resources Council and the Governor as the State water agency. Under the

Accurate streamflow measurements are necessary to study and assessment of watershed areas in the State.



Protected watersheds within the Conservation Districts provide vital water for domestic, industrial, and agricultural uses. A wooden flume-trestle, part of the water collection system in Kula, Maui, carries water across a ravine in the rain forests.

matching funds program of Title III of the Water Resources Planning Act of 1965 (P.L. 89-80) the Department is developing a state-wide comprehensive water resources plan and is training staff engineers to be proficient water resource planners.

The U.S. Water Resources Council also has designated the Department of Land and Natural Resources to be the lead agency in preparation of a Hawaii Water Resources Regional Study under the authorization of Title I of the Water Resources Planning Act of 1965. The State Legislature appropriated \$580,000 in 1971 to cover the State's share and \$200,000 was appropriated by Congress in 1973 for the study. The study was officially initiated in April, 1973 and Mr. Manabu Tagomori of the Department staff was appointed Study Manager for the project. The regional study requires the cooperative effort of federal, state, county and private agencies in Hawaii for analysis and assessment of potential deficiencies in the supply-demand relationship. The study will establish a program for correcting these deficiencies and designate responsible agencies to initiate the necessary planning activities to resolve those problems. This project is expected to take three years and will cost approximately \$1.78 million.

The Department is also participating in a third U.S. Water Resources Council project, the 1975 Water Assessment, which is designed to assess the water supply and water requirement problems of the nation. The report will serve as a guide for the Executive Branch of government, legislators, and water administrators.



"Boil" from an improvised aeration system in the Wahiawa Public Fishing Area. The system has proved effective in increasing the dissolved oxygen concentration in the water, and thereby reducing major fish kill during extended periods of low water.

In addition to the Water Resources Council programs, the Department under a cooperative agreement with the U.S. Geological Survey, collects streamflow data, monitors ground water aquifer and makes water investigative studies. These records, surveillance, and studies are essential for conserving the water resources of Hawaii, and for planning water development projects, in the State.

The Department, cooperatively with the National Weather Service, maintains complete records of all climatological stations within the State.

Stream Sedimentation Studies

Forest Service research in Hawaii has shown that forest covered soils are potentially less erodible than the same soils under sugarcane, pineapple or pasture. However, just how much soil is coming off our forested watersheds and entering streams as suspended sediments is not known. A program has been underway on Oahu for approximately one year to sample stream sediments from forested lands. An automatic sediment sampler has been installed on Kipapa Stream at the forest boundary—the sampler takes a minimum number of samples during normal and low stream flows and as many as two per minute during storm flows. Sediment samples are also being collected by hand periodically from the forested watershed portions of Kalihi, North Halawa, Opaeha, and Kamananui Streams. The 1972-73 season saw few storms so we obtained little data on sediment discharge. Thus sampling will continue at least through 1973-74.

FISH AND WILDLIFE

Nene

The Nene restoration project, which has as its objectives the preservation and increase of our State Bird in its native habitat, continued to show progress.

One hundred thirty nine birds, reared at the Pohakuloa propagation station on the Island of Hawaii, were released into the wild on that island and on Maui bringing the totals released since the program began in 1949 to 743 birds on Hawaii and 391 on Maui. Although some mortality has occurred among the released birds the reproduction of the birds in the wild is encouraging as the nene is once again becoming a "common" sight in much of its former habitat on Hawaii. Protection of the major nesting areas by cooperative agreements with private land owners, and predator control during the breeding season, continue to be important phases of the restoration effort which is supported in part by a \$25,000 annual grant from the U.S. Bureau of Sport Fisheries and Wildlife.

Koloa

The Department's companion project on Hawaii, to reestablish the Hawaiian duck or *koloa* in the Kohala area, was continued. A release of 55 young koloa produced at the Pohakuloa Station was made in November. Field observations and reports from residents of Kohala indicate that the koloa is reproducing and increasing its range in that area.

Wildlife Refuges and Sanctuaries

The Department's responsibility for wildlife resources extends to the establishment, protection and management of sanctuaries, refuges and preserves including islets offshore from the main Hawaiian islands.

One field trip to Manana off Oahu was conducted to investigate unauthorized military activities and a five day survey of Kure atoll, the northwesternmost island in the Hawaiian archipelago, was made to assist in wildlife mitigation efforts in conjunction with Coast Guard activities.





A project at Paiko Lagoon, Kuliouou, Oahu, which included removal of mangrove trees, dredging of silt, and creation of islets for the nesting of the *Hawaiian stilt*, an endangered species. Hopefully, this improved habitat will contribute to the ultimate survival of this native Hawaiian waterbird.

Progress was achieved in the effort to preserve and enhance the bird habitat at the Kanaha Pond Wildlife Sanctuary on Maui, with the execution of a Memorandum of Understanding between the State Department of Transportation, the Federal Aviation Administration and the Department of Land and Natural Resources. This agreement will permit the Department to proceed with its development plans for protecting the habitat of the *Aeo* or Hawaiian stilt from further deterioration and from predators which prey on the nesting birds.

The initial phase of improvements to the proposed Paiko Lagoon Wildlife Sanctuary and Park was completed in March with the removal of the encroaching mangrove growth and accumulated silt in the lagoon. Several small islets were created which will serve as protected nesting sites for the birds using the area.

Rare and Endangered Wildlife

A listing of the indigenous birds and mammals (exclusive of the pelagic mammals) showing their distribution and status was prepared and adopted by regulation in compliance with a recent legislation. The list includes 99 species of birds and two mammals. Twenty-three of the birds listed are believed to be extinct while an additional 30 species are considered to be endangered due to low populations, vulnerability to habitat loss, or dependence upon extremely fragile environments.

A brochure describing the plight of the endangered forest dwelling birds was prepared in cooperation with the U.S. Bureau of Sports Fisheries and Wildlife. This will be the third in a series of endangered wildlife brochures published by the Bureau and contains recommendations for action programs of research, habitat preservation and propagation. Field surveys of forest areas in Kohala, Laupahoehoe and Puuwaawaa on Hawaii to determine the status of endangered birds and the condition of their habitat were made during the year.

In cooperation with the University of Hawaii, the Waikiki Aquarium and U.S. Bureau of Sport Fisheries and Wildlife, eleven captive turtles were weighed, measured and marked for release off Niihau in an attempt to learn something of their movements and longevity under wild conditions.

Marine Surveys

Underwater fish counts and observations of the marine environment were conducted off the Island of Kahoolawe and on the southwest coast of the Island of Maui along Ahihi Bay, Cape Kinau and La Perouse Bay, that is proposed for establishment as a Natural Area Reserve. The sites examined off Kahoolawe were Kaimohio Bay, Kuia Shoal off Kealaikahiki Point, Kuheia Bay and a small cove about one-half mile southwest of Kuheia Bay. Except for Kuia Shoal which is offshore, unexpectedly vast areas of the bottom in the sites examined were composed of silt



Biologists of the Department and of the US Bureau of Sport Fisheries and Wildlife removing a green sea turtle from a holding tank at the Anuenue Fisheries Research Center for release into the ocean. Eleven of these animals were tagged, weighed and measured in a study to learn something of their movements and longevity.



A typical lava flow preserved in the Natural Areas Reserve System, and protected by Departmental Regulation during 1973.

and mud, apparently the result of extensive and prolonged erosion that has been taking place on Kahoolawe. In contrast, the bottoms along the survey areas off Maui were unsilted and very impressive with lush coral growth and diverse fish populations, thus making the area highly qualified for establishment as a Natural Area Reserve.

Crown-of-Thorns Starfish

Divers were dispatched to Molokai in July to eradicate a crown-of-thorns starfish concentration that was discovered about two miles east of Kawela in May 1972. The eight divers completed a total of 134 SCUBA dives to depths of about 60 feet and killed more than 10,000 starfish by injecting ammonium hydroxide solution into each animal. An underwater survey of the area indicated that the concentration of starfish travelled a distance of about 150 yards in the two months between discovery and eradication and damaged approximately 6.2 acres of coral reef.

Trace Element Monitoring of Artificial Reefs

This new study was initiated in November 1972, in compliance with a condition placed by the State Department of Health in issuing a zones of mixing permit for the dumping of car bodies at the artificial reefs during Honolulu's derelict automobile clean-up campaign. The condition stipulated that a study be made by consultants to monitor water quality to determine if changes in heavy metal concentrations,

turbidity, and chemical oxygen (COD) accompany the deterioration of the car bodies used as fish shelters at the artificial reefs. The Hawaii Institute of Geophysics, University of Hawaii contracted to do the study, which basically will involve periodic sampling of marine sediments and ocean water to determine the concentrations of various metals.

Information obtained from the study, thus far, indicates that there is no significant change in the chemical composition of the water and sediment of the artificial reefs. Analysis of sea water samples taken at the artificial reefs and at distant stations (for control samples) show no significant difference in detectable levels of heavy metals. The trace element concentrations in the bottom sediments were also equal to background levels.

The study will provide a guideline for future dumping of car bodies in the marine environment.

Environmental Impact Evaluations

One hundred twenty evaluations were made on proposals by various governmental and private agencies as well as individuals to undertake projects and other activities that have potential impact on marine life, habitat and fishing activity. This is a 32% increase over the number of evaluations processed during Fiscal Year 1971-72. The evaluations of such items as Conservation District Use Applications, U.S. Army Corps of Engineers Public Notices, Draft Environmental Impact Statements, Animal Introductions and various types of reports very often require on-site inspections and/or underwater surveys.



Divers inspect old automobile bodies soon after they are placed at the Kualoa Artificial Reef off Windward Oahu.

SECTION IV

PROGRAMS FOR LEISURE TIME

Greater affluence and more leisure time for the general public, have greatly increased the demands for additional recreational opportunities and facilities to supply these needs. The Department is deeply concerned with programs for this purpose. These programs include development and maintenance of public parks; controlled hunting and fishing; access and facilities within forest and wilderness areas; and the location, restoration and preservation, and interpretation of historic and cultural sites and places throughout the State.

Recreational Planning

A statewide recreation inventory, initiated by staff personnel on the existing conditions of our State Parks and their facilities, is designed to evaluate the needs and priorities for future development, maintenance and expansion of parks. The inventory will implement recommendations in the State Comprehensive Outdoor Recreation Plan (SCORP) which provides for a "clearinghouse" of statewide research and planning for recreational development. The inventory has been completed on the island of Oahu, and is now progressing on the islands of Hawaii and Maui.

A consultant has completed planning and started work on the design for the first development phase of the Sand Island State Park. This first phase will involve approximately 50 acres of the proposed 140-acre park, and construction is to commence in early 1974. A unique feature of the planning of this park is that it is the first in Hawaii in which the immediate community and interested citizens actively participated and became deeply involved in the planning process.

An attractive onshore display has been designed by consultant for installation at the Hanauma Bay State Underwater Park. The display, housed in a kiosk placed in the county's beach pavilion, will depict the common marine life of the bay, and provide information on possible hazards and the swimming skills required to safely enjoy the various sections of the underwater park. In the bay itself, signs and buoys marking safe entry and exit points and passageways to underwater areas will be installed by the Division of Fish and Game.

Four consultant studies initiated during 1972 were completed to provide data and recommendations for master planning the Kahana Valley Living State Park. These include a socio-cultural study of the valley residents, an educational program plan, archaeological excavations and analysis, and a botanical survey. Preparation of the master plan, topographic survey and architectural designs are being done by various consultant firms.

A plan for interim development and use alternatives, and for a future master plan were completed for the Russian Fort Elizabeth State Monument on Kauai. A conceptual master plan was prepared for Wahiawa Mauka State Recreation Area, Kauai, and another was begun for the Lapakahi State Monument, Hawaii.

Planning, design, and construction plans are in various stages of completion for the following new State Parks on Oahu: Wahiawa Fresh Water Park, Waimanalo Bay State Recreation Area and Makiki-Tantalus State Recreation Area.

Parks Management

Continuously increasing demands are being placed on State Parks and park facilities as a result of steady growth in tourism and resident population, and greater affluence and availability of leisure time of both visitors and residents. The increased usage of parks, has added considerably to the complexity of operating, managing and maintaining the parks. Heavier workloads have been imposed on the existing parks maintenance staff, and the level of maintenance services in certain park areas were reduced or deferred. Additional park caretakers could not be hired to fill new or vacated positions.

Lands acquired for future park development, but presently remaining in an undeveloped state, continue to present a major problem source particularly in respect to increasing the workload of our caretaker staff. Squatters, illegally setting-up semi-permanent residences, and daily users of these undeveloped parks, create litter which must be continuously policed. Also, the undeveloped parks are used as dumping grounds for trash including abandoned cars and junked appliances.

Parks Development

Several park work projects designed to alleviate unemployment in areas of high unemployment were undertaken by the Department. In cooperation with the Waimanalo Employment and Economic Development Service, 22 residents of Waimanalo, Oahu were hired to clean-up and implement site improvement work at the proposed Waimanalo Bay State Park. A similar project was undertaken at Kahana Valley where ten workers were employed for three months.

A long-range project was initiated in June 1973 to alleviate existing and expected unemployment related to the pending permanent shut-down of the Kohala Sugar Company operation in Hawi, Hawaii. A work program has been designed to create employment opportunities for residents of North Kohala in conjunction with development of the Lapakahi State Historic Park. A \$400,000 federal grant was obtained



Nurseryman Wong of the Parks Division is a member of the crew that meticulously grooms the grounds and gardens of Washington Place.

from the U.S. Department of Commerce [Economic Development Administration] to fund the work program on a 20/80 State: Federal Ratio. This project will eventually employ 30 residents to selectively clear and clean the proposed park site, propagate and maintain historically authentic native plants for landscaping, assist archaeological crews in their investigation, excavation, stabilization, and restoration of archaeological sites. Subsequently, more permanent job opportunities as guides, interpretive specialists, and other park operating positions will be made available.

Other accomplishments in park development activities were as follows:

On Hawaii, design and construction plans have been completed by a consultant for a 1½-mile extension of an 8-inch pipeline at the Lava Tree State Park. This project will be implemented by the Department of Water Supply, County of Hawaii as part of their overall water development plan for the Puna District. Development plans have also been completed for the Hapuna Beach Recreation Area where picnicking facilities as well as additional comfort stations, vehicle parking facilities and a pavilion will be constructed, and the irrigation system and landscaping will be expanded. These improvements will further enhance the usage of one of the finest sand beaches on the island. At Kalopa State Park, development plans were initiated for

single family group cabins and tent camping areas with comfort station facilities.

On Maui, a parking area is to be paved along the Hana Highway to accommodate visitors to the Puua Kaa State Wayside, and the construction of a new restroom and enlargement of the parking area is in progress at the Kaumahina State Wayside. Plans for a concession building at the Waianapanapa State Park are being finalized. The Wailuku Sugar Company, which previously donated four acres of land for the Iao Valley State Park, has generously donated two additional acres for expansion of the parking area.

On Kauai, condemnation proceedings were filed to acquire approximately 190 acres of privately owned in-holdings in Kalalau Valley along the Na Pali Coast; a 50% matching grant of \$849,013.50 was obtained from the Department of Interior [Bureau of Outdoor Recreation] to finance the acquisition of approximately 238 acres of land being condemned for a new state park at Haena. Design and construction plans have been completed for a new boat landing at the Fern Grotto, and consultants are preparing development plans for a pavilion in the Lydgate Area of the Wailua River State Park. A contract has been awarded for the reconstruction and restoration of the Waimea Pier.



A citizen's advisory committee was appointed by the Governor to plan programs and exhibits at the Wailoa Center in Hilo. Here, members of the committee are being introduced during a ceremony marking the opening of the center's first art exhibit.

Forest Trails

Department foresters have designed a trail system to provide access to Forest Reserve areas both for protection and maintenance of the areas and for forest recreation to meet the demands of an ever increasing flood of hikers who want to visit the quiet beauty of Hawaii's mountain forests. New trails, totaling nearly six miles were built in the Kula Forest Reserve, Maui and in the Wailua area of Kauai. Two shelters were installed on the Koolau Ridge of Oahu to serve overnight hikers and to provide base facilities for future rescue operations. A major activity of the summer student program is forest trail maintenance. Forestry crews and volunteer groups completed maintenance of fourteen miles of trails.

Department foresters provided technical assistance and supervision for the Hawaii Chapter Sierra Club Trail Maintenance Project (TMP). A nationally recognized program, it brings together Hawaii's youth, who not only volunteer, but pay to work on conservation-recreational state projects that would otherwise not be done because of manpower or financial restraints. In 1973, the volunteers worked on the Wailua Valley trail on the remote north shore of Molokai, and for the first time in 20 years, this valley trail is now open; having been cleared of vegetation, landslides and trees.

A continuing serious problem for forest recreation users is public access to public lands. Negotiations for trail rights-of-way are always difficult. The average landowner doesn't want the problems of liability, congestion, litter and vandalism that he too often

associates with heavily used recreation areas. Public access to forest areas in an especially difficult problem on Oahu where access to much of the state lands is blocked by private property.

OFF-ROAD MOTORCYCLING

The Waialeale Motorcycling Riding Area on the North Shore of Oahu is the first State land area open to the public for off-road motorcycling and motorcycle competitions. This 450 acre parcel of State land is leased to the military, and is made available for weekend use under permit to the newly organized Hawaii Motorsport Association Inc. HMA member clubs operate the riding area on weekends and national holidays.

Enduro, motocross, wheelie, flat track, and other terms are new for this department, however, the demand is there for this form of outdoor recreational activity. Development of the area has had normal growing pains which can be expected in a relatively new sport. Management by member riding clubs has minimized some problems; however, there is still need for better controls to keep riders in the park. Trespass onto adjacent private lands, the associated liabilities, and coordination and cooperation with the military occasionally have become problems.

Opening day drew over 1,000 spectators and riders from a well represented cross-section of our community. The riding area offers two 1-mile motocross tracks, a mini-bike track, and a 5-mile perimeter trail that borders the area and provides area for recreation riders who are not interested in competition.

Nearly one-fourth of the riding area has windblown erosion scars. Off-road riding will not improve the condition. However, the Department has developed a planting plan to be implemented by the HMA as part of its use agreement. The clubs will plant grasses and trees to cover the old erosion scars and develop wind-breaks and tree groves to shelter picnic areas.

Public Hunting Areas

Public hunting opportunities are provided on over one million acres of land under regulations of the Board of Land and Natural Resources. Approximately 75% of these areas are State owned, under the jurisdiction of this Department or other State agencies. The remainder are either Federal lands or private lands where public hunting is permitted under the terms of cooperative agreements. Approximately half of the public hunting areas have been designated "Game Management Areas" which are intensively managed and controlled. During the year, one additional area consisting of 4,594 acres of State land in Kahana Valley on Oahu was opened to the public primarily for the hunting of feral pigs.

The harvest of game mammals and hunter activities on game management areas throughout the State increased somewhat over that of 1971-72. A total of 24,345 hunter trips was made resulting in a harvest of 7,017 game mammals which included axis deer, mouflon sheep, blacktail deer, and feral goats, pigs and sheep. Pigs were the most common in the hunters' bags as 2,570 were reported taken.

Game bird hunters made 9,129 trips into the field seeking pheasants, chukar partridge, California quail, Gambel's quail, Japanese quail, lace-necked doves, barred doves, grey francolin, black francolin and Rio Grande turkeys. A new species, the Erckel's francolin,



Lands of Mokiha on Kauai which may have potential as a public hunting area.



A lucky father and son team of anglers display their catch at a recent "fish-in" at the reservoir.

was opened to hunting for the first time since its introduction in 1957, on the islands of Oahu, Kauai and Hawaii and provided significant additional recreation. Also, on the Island of Hawaii, Rio Grande turkeys were added to the list of game birds open to hunting and 28 were harvested during this initial season. A total of 9,358 game birds of all species were reported taken on public hunting areas, a 6% increase over the previous year.

Development and Maintenance of Game Management Areas

The development of game management facilities to enhance game productivity, provide hunter conveniences and evaluate habitat conditions continued during the year. Three game water units were installed in the Puuanahulu Game Management Area on Hawaii to provide ready water for game species. Also, on Hawaii 3 mammal exclosures were erected on Mauna Kea to be used in range vegetation studies. On Oahu, a fenced area to exclude cattle and feral pigs was established around an existing water unit at Kuaokala at Kaena Point and 21 species of game bird food plants were seeded experimentally. The combined effects of cattle ranching which should open up dense stands of heavy brush, the installation of herbacious plantings, and the maintenance of water units should enhance this area for future hunting recreation.

An old road leading into the Kekaha Game Management Area on Kauai was renovated for approximately two miles of its length to afford an additional access for both game bird and mammal hunters. In the same area, two cattle guards were installed along access roads as a convenience to hunters and as protection for the lessee's cattle operation.

Wildlife Research and Surveys

Because of the concern of wildlife biologists and other conservationists for the condition of the vegetation on Mauna Kea on Hawaii as related to feral sheep numbers, range studies and vegetative analyses were accelerated with the cooperation of the U.S. Forest Service and State Foresters. New studies initiated included an assessment of the effects of bark stripping by feral mammals and analyses of vegetative recovery within animal exclosures. These studies should lead to management practices designed to perpetuate native vegetation on Mauna Kea.

The study of the blacktail deer on the Island of Kauai continued with emphasis this year on food habits and the effects of this introduced species on the habitat. Forty permanent transect locations were established throughout its primary range for use in evaluating vegetative conditions and browse utilization. At present densities, blacktail deer appear to have little detrimental impact on either introduced or native vegetation. Population determinations revealed that the closed-canopy native koa forest at higher elevations supports only moderate numbers of deer, while the highest density occurred in the lower, primarily exotic forest and brushlands.

Public Fishing Areas

Kokee PFA, Kauai.—Fishermen checking station data collected during the 1972 trout fishing season showed that 506 fishermen-trips resulted in the taking of 501 trout. The largest trout of the season was an 18½ incher caught in the Koaie Stream.

Trout hatchery facilities were permanently installed in the new laboratory-workshop-warehouse building at the Anuenue Fisheries Research Center on

Sand Island, and operated from March 1 through May 29. Two shipments of rainbow trout eggs from the Winthrop National Fish Hatchery in Washington were received and processed during this period. A total of some 71,000 fingerlings was stocked in the streams of the Kokee PFA. Also, some 40,000 fingerlings held over from the last shipment received during the previous report period were stocked on July 7, 1972.

Wahiawa PFA, Oahu.—Estimates derived from creel census and fishermen interview data collected during fiscal year 1973 showed marked decreases in usage of the Wahiawa PFA, as compared to fiscal year 1972. It was estimated that about 15,317 fishermen-trips were made to this facility, and that about 21,710 fish weighing a total of 12,737 pounds were caught.

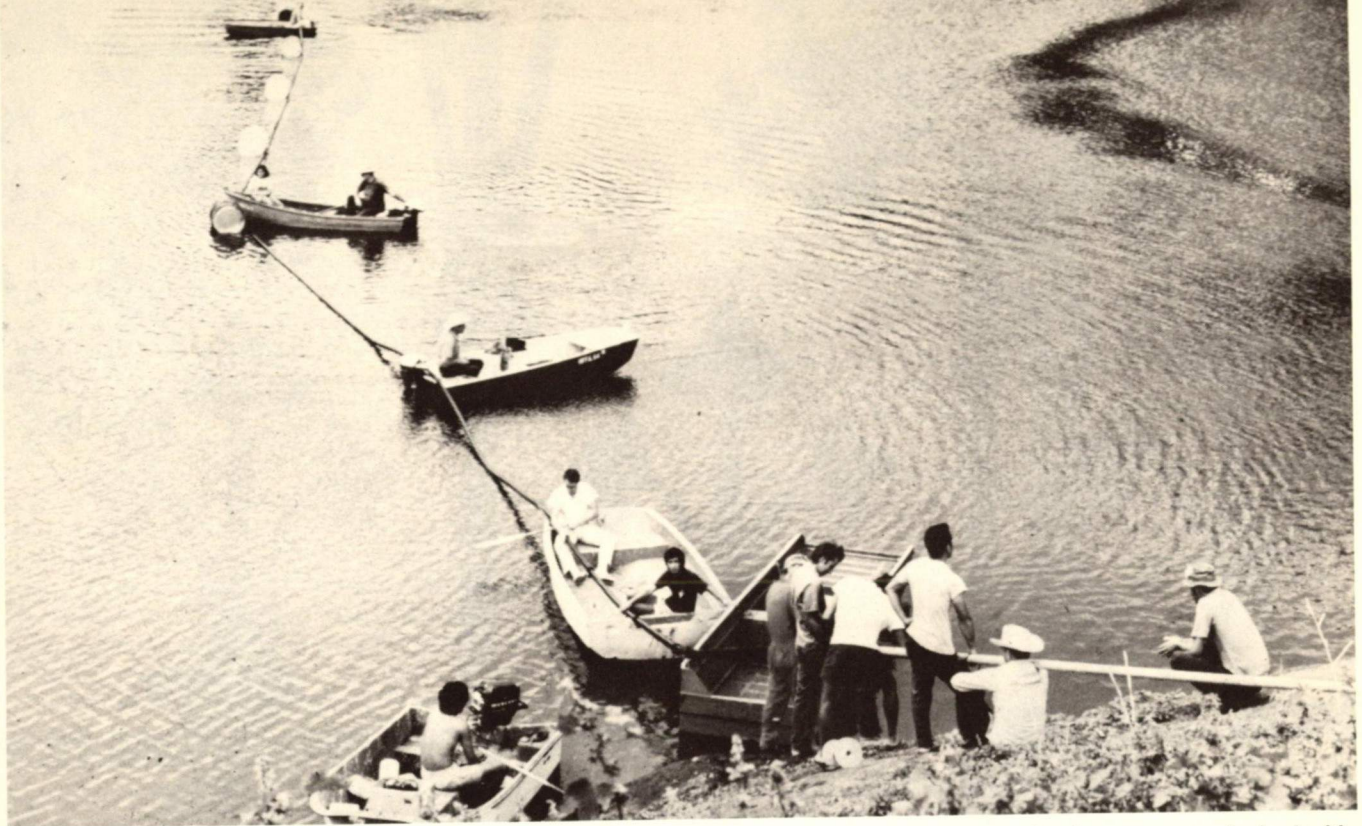
In August, 1972, modifications were made on an emergency aeration system installed in 1971. Aside from minor fish kills sustained in September due to equipment limitations, operation of the system successfully averted major fish-kill episodes despite an unusually prolonged drought and associated drastic drawdowns in water level for irrigation needs.

A truck-mounted 210 cfm air compressor was procured gratis from the Department of Defense in April 1973. This compressor was overhauled and prepared for use alternately with the 125 cfm rotary compressor already available.

Board of Water Supply Nuuanu Reservoir No. 4, Oahu.—Significant recreational opportunities were again provided through controlled public fishing in the BWS Nuuanu Reservoir No. 4, which lies within a restricted watershed in Honolulu. Two periods of public fishing (September 16-17 and 23-24; and May 19-20 and 26-27) produced 979 channel catfish for 963 fishermen. A conservative estimate of the total weight of fish caught was 1,572 pounds.

Iliou Loop Nature Trail on the Island of Kauai





Installation of an improved aeration system in the Wahiawa Public Fishing Area. A large air compressor for the system was obtained without cost from surplus military equipment stocks.

To improve the efficacy of the supplementary feeding program, and to reduce manpower and attendant costs, a Lehman Automatic Feeder was purchased and installed on a raft in the reservoir in December, 1972. The device was set to dispense feed twice daily, and was found to work very satisfactorily.

In cooperation with the University of Hawaii, experimental work was begun with the objective of artificially inducing spawning of channel catfish. Practical application of anticipated results holds promise for improving the population of catfish in the Reservoir.

Marine Life Conservation Program

Encouraged by the success achieved at the Hanalei Bay Marine Life Conservation District in restoring marine life from a depleted condition after it was accorded protection from unrestricted uses; the "Kapuku Plan" was conceived to restore, protect and conserve marine resources of the Island of Oahu. "Kapuku" is a Hawaiian word which means "to restore life". The Kapuku Plan divides the coastline of Oahu into zones, with fishing and other consumptive uses permitted in alternate zones, while adjacent zones would be closed. With the recovery of marine life in the closed zones, perhaps in two or three years, they would be opened to fishing and the alternate zones closed. This plan was presented to governmental and private conservation agencies as well as to local fishing, boating and diving clubs. Generally, the concept of conservation and restoration of the marine resources through protective zones along the coast of Oahu seemed acceptable to a majority of the

reviewers of the plan. However, there was considerable opposition and on the basis of the feedback received, the basic plan is being revised.

Artificial Fish Shelter

A new artificial reef was constructed off the windward coast of the island of Oahu in August and September 1972, with 342 derelict automobiles collected during Honolulu's "Great Automobile Round-Up". Kualoa Artificial Reef, situated north of Kaneohe Bay between Kualoa Point and Kahana Bay, is the third artificial reef to be constructed in waters off Oahu. Car bodies stockpiled and stripped of all salvageable materials and completely drained of all oils, gasoline and other fluids at the Kaneohe Marine Corps Air Station were taken to the reef site by a U.S. Navy tug and barge. During the same project, 677 car bodies stockpiled and processed at the Coast Guard Station on Sand Island were added to the Maunalua Bay Artificial Reef and 744 car bodies processed at the Campbell Industrial Park were added to the Waianae Artificial Reef. This State-County-Federal-Community effort to beautify the city was successful in removing 1,763 derelict cars from our streets.

In June 1973, an estimated 896 tons of damaged concrete pipe were added to the Maunalua Bay Artificial Reef. This reef now consists of 1,593 car bodies and 2,331 tons of concrete pipe. At the Waianae Artificial Reef, reef building materials include 838 car bodies, 4,188 tons of concrete pipe, 75,100 rubber tires and a steel barge of 690 gross tons.



The Royal Mausoleum, maintained by the Parks Division, is visited each year by approximately 270,000 persons. Built in 1865, the Royal Mausoleum is the burial ground for Hawaiian royalty of the Kamehameha and Kalakaua dynasties.

Historic Restoration

Iolani Palace

Restoration of the Iolani Palace under administration of the Friends of Iolani Palace, continues to be the major historic project in the State. Dr. Edward P. Alexander, for twenty-six years director of interpretation at Colonial Williamsburg, was hired on a short term contract to develop a preliminary interpretive plan for the Iolani Palace complex. Dr. Alexander outlined staffing requirements and made recommendations on scheduling and use of the various facilities in the Palace Complex.

An annual work program was prepared and submitted to the National Park Service with a request for a Federal grant of \$324,829 in matching funds for historic preservation in Hawaii. This included a request on behalf of two private organizations, the first such request generated in Hawaii under the National Historic Preservation Act of 1966. These included \$124,715 in federal matching funds for the Maui Historical Society to finance the restoration of the Old Bailey House in Wailuku, and \$40,500 for the Pacific Tropical Botanical Garden Foundation for the restoration of Piilanihale heiau at Hana, Maui.

A very successful historic preservation workshop was held which attracted over 75 participants from throughout the State. This workshop was sponsored by the Department, the Hawaii Foundation for History and the Humanities, and the Hawaiian Historical Society, with the Department providing most funding and staff support time.

Architectural drawings for Palace work have been completed. Major physical renovation was carried out

in the attic area and a large modern elevator installed which is able to carry furnishings and equipment to all building levels. The mid-roof cupola has been rebuilt, roof towers renovated and the entire roof is being recovered with new slate. Archaeological salvage which recovered many pieces of household pottery and other artifacts was conducted in conjunction with excavation and water-proofing the moat area. Woodwork, including door frames, panels, wainscots and shutters are being systematically cleaned, sanded, repaired and new carving done to replace missing sections.

A new and important project for the Island of Hawaii began its development phase this year. A master plan for preservation of historical resources in North Kohala was published in July, 1972 outlining the concept of a series of historical sites related to the early life of Kamehameha I. A fishing village in the ahupua'a of Lapakahi will be initial area to be preserved as a historical park.

On Kauai, mapping by Bishop Museum archaeologists under contract to the Department, located features inside Russian Fort Elizabeth and in the surrounding park area. Test pits and trenches determined the levels of prehistoric and historic use.

On Oahu, two parcels of land totalling 18,395 square feet were acquired for future development of the Royal Mausoleum-Nuuanu Petroglyphs State Monument. One of the parcels contain the important Nuuanu petroglyphs which are among the few remaining on this Island and include some unusual figures of dogs. Additional land upstream must be acquired later to provide access to a planned stream trail.

Squatters on lands acquired for State Park Development such as at Sand Island, Oahu, add considerable workload burdens to the existing parks maintenance staff.



Statewide Inventory

Need for a statewide inventory of all known archaeological sites, and of historic sites and buildings has been recognized by the Federal government in the National Historic Preservation Act of 1966. This Act provides matching grants to States for statewide inventories and plans, as well as for acquisition and development of significant historic places. The State is required to make an inventory of its total historical resources, and to prepare a statewide comprehensive historic preservation plan.

During the year, approximately one thousand archaeological sites were inventoried on Hawaii Island by the Department's archaeological team, completing the districts of South Kona and North Kohala, as well as portions of Puna and Ka'u.

The inventory of historic buildings continued, and eighteen Oahu sites were inventoried. The Hawaii Historic Places Review Board placed fourteen on the Hawaii State Register, and recommended that eight of these be nominated to the National Register of Historic Places.

Contracts were awarded to the Bishop Museum and the Archaeological Research Center Hawaii in May, 1973 for supplemental work on the statewide inventory. The Archaeological Research Center Hawaii is examining the sites on Kauai; and the Bishop Museum

began archaeological recording on Maui and the recording of historical buildings on Hawaii Island.

The Review Board placed 115 properties on the Hawaii Register, and nominated 30 properties to the National Register. Twenty-three sites were judged by the Review Board to be of marginal value and were not placed on the Hawaii Register.

The Interim Historic Preservation Plan was revised in accordance with Departmental and Review Board critiques and submitted to the National Park Service. The Park Service subsequently requested additional revisions to the plan and extended Hawaii's period of grant eligibility under the National Historic Preservation Act until December, 1973.

Considerable effort was expended in reviewing proposed public and private projects which may affect designated historic sites, and it is anticipated that this function will continue to expand as the statewide inventory progresses.

The historical staff also provides analytical and background data in cases when sites on the National Register are threatened by Federally funded or licensed projects. The Chinatown National Historic District, in particular, was the subject of special efforts to minimize adverse effects in the Honolulu Redevelopment Agency's Pauahi Urban Renewal Project.



The Aina Moana State Park has rapidly gained the acceptance of and usage by island residents and visitors since its dedication in early 1972.

SECTION V

PROGRAMS FOR PUBLIC SAFETY

The Department in carrying out its numerous responsibilities and functions, is always concerned with the safety of the public and with protection of individuals and groups from danger or damage. One program, however, is directly addressed to this major program area, and is, therefore, classified specifically within this category.

Flood Protection and Control

The Department is continually developing and modifying a General Flood Control Plan for the State of Hawaii. Department staff also coordinate planning and development activities of the several government and private organizations concerned with floods and

the problems connected with them. Most important, the Department obtains the necessary facts to enable governmental and private entities to take positive action to control and minimize the damage caused by floods.

The General Flood Control Plan promotes two basic methods or approaches for minimizing loss of life and property damage from floods. The first involves control of land uses and development within potential or actual flood hazard areas. This regulatory program depends principally on each county to establish and enforce effective zoning and building ordinances which will control or prevent costly residential, industrial or hotel-resort development on lands subject to floods or tsunami inundation.



Flooding and storm damage caused by inadequate drainage facility at Waihee Stream Crossing, Kahaluu, Kaneohe, Oahu.



Flood control drainage channel under construction at Waiohinu, Kau, Hawaii, will eliminate flooding by channeling water rapidly to the ocean.

The second method involves control of destructive flood waters through reduction in the speed and intensity of floodwater runoffs, and by channeling such waters. Governmental agencies, volunteer service organizations, and landowners are directly involved in flood prevention activities, including restoration and improvement of ground cover on eroded lands, and in extending forest plantings for conservation of water resources; contour planting of agricultural products; and the construction of farm ponds, reservoirs and other conservation improvements in farmlands and pastures to retard surface runoff. The development of flood control dams, spillways and channels and other major facilities, is principally a function of federal and county agencies. The Department coordinates their activities on a statewide basis.

The Department maintains a complete reference file on reports of floods and flood damage in the State of Hawaii. These files incorporate news media reports and field survey reports by Department staff, and staff of other state, federal, and county agencies. Following each major storm and tsunami, the assigned staff coordinate data collection efforts of all agencies, and compile and publish a post-flood report

on storm causes, inundation and damage, which may be utilized for planning and justification of flood control proposals.

A network of crest-stage gaging stations of rivers and streams throughout the State is maintained under a cooperative agreement with the U.S. Geological Survey. Flood data collected from these stations are analyzed and published annually by the Department. This information is essential for the planning and design of flood control and drainage facilities, and is made available to all agencies.

Maps which delineate the limits of potential flooding are essential to planners, engineers, land developers, and landowners in making prudent use of flood hazard areas of the islands. This basic information also enables the several counties to adopt and implement regulations which permit those uses which are not incompatible with flood hazards. During the year, the Department, through the U.S. Corps of Engineers, completed flood plain maps for Kahaluu, Waialae-Iki, Waikane-Waiahole Stream on the island of Oahu; Iao Stream, Maui; and Opaekaa Stream, Kauai. Work is now in progress for preparation and publication of similar maps for Heeia and Hauula-Punaluu, Oahu; and Puako-Anaehoomalu, Hawaii.

SECTION VI

PROGRAMS FOR GOVERNMENT-WIDE SUPPORT

Two Departmental programs, for management of public lands, and for land recordation are related directly or indirectly to control and management of natural resources. However, program results are so broad and far-reaching, or are so limited, that it is most convenient to place them in this general program category.

Public Land Management

The public land management program of the Department is concerned primarily with the State-owned lands classed as public lands, and to a lesser degree with the State-owned lands within the Conservation District as defined by the Land Use Commission. By statutory definition, the public lands consist of all State-owned lands, including submerged lands to the three-mile limit, except public roads, lands in the Forest Reserves and Watersheds, the Hawaiian Home Lands and lands set aside to State County agencies by Executive Orders and Proclamations of the Governor of Hawaii. The public lands are available for sale, lease, license, revocable permit, and for public use, and are disposed by the Board of Land and Natural Resources to meet approved public and private needs.

STATE-OWNED LANDS

Hawaiian Home Lands	192,000
Forest Reserves and Watersheds	802,052
State Parks & Historic Sites	15,584
Public Use (Executive Orders Only)	239,522
Public Lands (Sec. 171-2, HRS*)	507,060
TOTAL	1,756,218

*Hawaii Revised Statutes

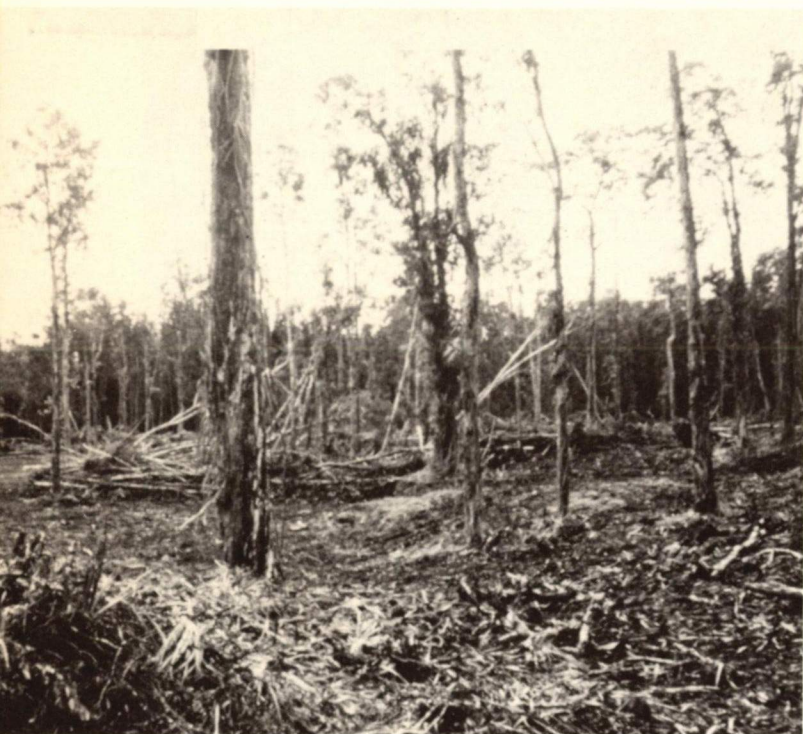
The Department maintains an active program for the acquisition of non-public land and facilities for public purposes. This activity provides lands and other realty for programs and projects of the Department and services needs of other agencies of the State, and occasionally requirements of the several county governments.

During the 1972-1973 fiscal year, the Department completed acquisition of 27 parcels of property consisting of 30 total acres at a cost of \$5.5 million. Also acquired were three leases for \$1,800 a month rental, and 25 rights of entry for Leilehua School for survey purposes.



Controlled use of lands within the Conservation District. Soil type, existing vegetation, slopes, grading and building plans, are some of the elements considered in review of Conservation District Use Applications.

Mr. Ah Chun Lee, a rancher in the Puna area of the Island of Hawaii, recently acquired a twenty-five year lease on 378 acres of State lands near the famous Kalapana Black Sand Beach. The land is very rocky, and was originally covered with a heavy growth of ohia trees. Elevation at the site is approximately 950 feet, and the mean annual rainfall is about 100 inches. This is excellent grazing land.



Above. Mr. Lee cleared the land himself with a bulldozer, carefully leaving sufficient trees to provide shade for the livestock.

Lower. Pangola grass was planted throughout the entire pasture area. As can be seen, this species is well adapted to the area.

Above. A stockwater pond was installed, lined with butyl rubber, to collect rainfall from the catchment shed. Nearby water troughs are fed by gravity from the pond.

Lower. Rotation grazing is practiced as part of proper pasture management. The paddock in regrowth state exhibits a lush stand of nourishing pangola grass.

Of the total of 55 acquisitions, 31 were for the Department of Education; 30 for school purposes and one for addition to the Hilo Library. For the Department of Accounting and General Services, 14 parcels were acquired at a cost of \$5,238,347 for 11,369 acres. One water line easement was acquired for Departmental water development and 9 parcels were acquired for State Parks covering 7.693 acres at a cost of \$208,755.

The most important acquisitions of the year were 3.92 acres for the Honolulu Civic Center at a cost of \$4,827,700; a 0.314-acre addition to the Hilo Library, \$70,000; and the 2.837-acre Snug Harbor site for the University of Hawaii Marine Expeditionary and Oceanographic Research Facility [at 100% public benefit discount for educational purposes through the Department of Health, Education and Welfare.] Equally important was the purchase, for \$80,850, of 3 acres in Waiawa for a National Guard Armory site.

From the public lands of the State, the Public Lands Management Program provides lands for residential, agricultural, resort/hotel, industrial and many other uses including recreation, water development, parks and open space. Lands required for uses of State and local agencies are generally set aside by Governor's Executive Order but some lands are leased to other agencies, particularly to the University of Hawaii to improve Departmental control of such parcels. While only the Governor can set aside lands by executive order, every such set-aside must have the prior approval of the Board of Land and Natural Resources.

Lands for residential uses have usually been sold at public auction but there is an increasing emphasis on disposing such lands by drawing. Short-term use of lands for all uses is provided through revocable permits and licenses.

During the current fiscal period, the program made disposition of 124,609 acres of land in 291 transactions. Sales in fee produced a one-time return of \$1,522,000. The sale of leases, permits and licenses will generate direct new revenues of \$836,115 per year.

LAND DISPOSITIONS 1972-1973

	Number	Acreage	Value
Executive Orders.....	26	2,711	*
Sales in Fee	121	31	\$1,521,911
Leases**	26	423	48,816
Revocable			
Permits***	118	123,493	787,299

* Executive Order lands are set aside without charge.

** Detailed listings are contained in the Appendix.

*** The unusually large acreage and annual rental shown for revocable permits is due primarily to the expiration of a number of pasture leases on the Island of Hawaii and placing the lands under interim revocable permits.

The program is responsible for the active management of some 500,000 acres of public lands, and for administrative review of the use and status of some 240,000 acres of lands set aside to government agencies by executive order and proclamation. In addition, there is the responsibility for the disposition of State lands within the Conservation District, including the 802,000 acres of Forest Reserves and Watersheds, and the vast areas of the submerged lands offshore to the three-mile limit. Activity in the submerged lands area is expected to increase as the restrictive laws relating to ocean mining and other similar activities are clarified and some of the restrictions modified. A start was made by the 1973 Session of the Legislature in the modification of the Shoreline Setback Law to permit mining of submerged lands no less than 30 feet deep and 1,000 feet seaward of the high-water mark.

As of June 30, 1973, there were 834 general leases in force covering use of 324,928 acres of public lands. Some 950 revocable permits covered approximately 151,874 acres. Land uses under these contracts include residential, agricultural, commercial, industrial, hotel/resort, some government uses and many miscellaneous uses. Annual rentals collected from the leases, permits and licenses totalled \$4,044,000 for the fiscal year.

PUBLIC LAND USES

	Acres
Total Public Lands	507,060
Special Sale Agreements (residential)	69
General Leases	
Residential	134
Agricultural	235,820
Water Licenses	27,593
Business & Industrial	714
Public Uses	44,217
Homesteads	
Certificates of Occupation and	
999-year Homestead Leases	136
Right-of-Purchase Leases	112
Fee Homesteads (Conditional Sales)	672
Revocable Permits & Licenses	151,874
Unencumbered Public Lands	29,269

The Department personnel made 2,022 inspections of public lands during the year, to determine status of use and compliance with terms and conditions of disposition contracts; to investigate possible soil erosion and noxious weed problems and make recommendations for correcting those found; to check for unlawful use such as squatting, dumping, etc.; and to make recommendations for present and future use and management of the lands.

The staff also made 683 appraisals and rental reviews of public lands to recommend rentals for revocable permits and upset prices and rentals of lands to be disposed at public auction. A total of 90 land



State lands assigned for use in experimental and development forestry activities

title searches, title memoranda and abstracts was made. Staff also received and recorded 442 deeds and indexed and filed 291 documents (special sale agreements, leases, permits, licenses, etc.) issuing from the Department.

Over 80,000 files were maintained and several thousand requests for information and service from public and private sources were handled during the year.

Conveyances and Recordation

The conveyances and recordation program of the Department is mandated, and largely guided by specific statutes, and is conducted primarily to protect the equity interests of individuals and organizations, both within and without the State, in land ownership and in the documentation and transfer of land title. The Department is the only agency within the State authorized to carry out this vital function, and this

limitation has greatly contributed to elimination of error and confusion in land recordation throughout the State.

During the past year, the recordation workload exceeded the anticipated volume, in both the Regular Registration System, and in the Land Court Registration System. The Regular Registration System processed a total of 100,727 documents which represents an increase of 5% over the previous year; while the Land Court registration System handled 48,906 documents, an increase of 11%. In addition, 9896 Land Court Certificates of Title were issued, as compared to a total of 8313 for the previous year. Additionally, the Department in implementing Section 490:9(401 & 407) of the Uniform Commercial Code recorded 24,335 UCC documents, and issued 1,022 UCC Information Request Certificates.

The recordation and conveyances operations of the Department generated \$1,658,219,000 in total revenues during the year, which was deposited in the General Fund of the State.

APPENDIX



PERSONNEL DIVISION

SUMMARY OF PERSONNEL TRANSACTIONS—July 1, 1972 to June 30, 1973

Accessions	160	Other Personnel Actions	612
New Hire— Permanent	15	(Excludes increment and pay adjustment; conversion from probational to permanent status.)	
Inter-Agency Transfer		Promotion	20
New Hire— Limited Term Appointment	2	Voluntary Demotion	2
Temporary Appt. Outside List	5	Reallocation	35
Emergency	17	Reclassification	
Provisional	1	Change in Title	
Exempt	120	Limited Term Promotion	17
Separations	157	Temporary Assignment	75
Resignation and Transfer	25	Intra-Agency Transfer	7
(Permanent Employees)		Extension LTA	3
Resignation and Termination	123	Extension Exempt Appointment	42
(Temporary Services)		LTA to Permanent Appointment	
Retirement	7	LWOP (Maternity)	1
Death	2	LWOP (Others)	63
		Extension LWOP	1
		Name Change	1
		Correction	32
		Hazard Pay Differential	
		Extension of Probational Appointment	1
		Return to Former Position	31
		Return to Duty from LWOP	60
		Cancel—Reallocation	
		Cancel—LWOP	5
		Suspension	3
		Summer Hire	213

FULL-TIME PERSONNEL EMPLOYED BY THE DEPARTMENT BY DIVISION AND ISLANDS, As of June 30, 1973

Divisions	June 30, 1973	June 30, 1973					Total
		Hawaii	Oahu	Kauai	Maui	Molokai Lanai	
Administration and Staff	27	1	23	1	—	—	25
Conveyances	41	—	42	—	—	—	42
Fish & Game	72	16	36	6	5	4	67
Forestry	88	30	19	18	13	3	83
Land Management	29	2	22	2	2	—	28
State Parks, Outdoor Recreation and Historic Sites	104	16	48	27	10	1	102
Water & Land	53	4	43	1	—	3	51
Total	414	69	233	55	30	11	398

STATISTICAL PORTION OF THE ANNUAL REPORT OF THE BUREAU OF CONVEYANCES ENDING JUNE 30, 1973

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 1963 TO 1973

Fiscal Year	Number of Deeds Filed and Recorded	Approx. Value of Land Conveyed	Total Filing and Recording Fees Received
1963-1964	11,680	102,232,000.00	357,938.40
1964-1965	12,175	101,482,100.00	408,619.55
1965-1966	12,799	133,301,000.00	412,919.30
1966-1967	11,643	218,966,000.00	341,266.65
1967-1968	13,615	528,972,370.00	344,247.30
1968-1969	14,683	809,639,656.00	386,887.25
1969-1970	14,876	822,665,446.00	398,025.75
1970-1971	16,036	969,486,762.00	465,205.75
1971-1972	20,354	1,211,269,225.00	618,992.00
1972-1973	21,874	1,736,756,401.00	666,400.00

Table 2. DOCUMENTS RECORDED AND FILED AND LAND COURT CERTIFICATES OF TITLE ISSUED BY THE BUREAU OF CONVEYANCES FROM 1963 TO 1973

Fiscal Year	Documents Recorded and Filed			Land Court Certificates of Title Issued
	Total	Regular System	Land Court System	
1963-1964	67,004	42,273	24,731	5,884
1964-1965	76,033	47,190	28,843	5,698
1965-1966	77,011	46,640	30,371	6,000
1966-1967	67,690	42,834	24,856	5,549
1967-1968	84,922	56,864	28,058	6,006
1968-1969	90,502	61,095	29,407	6,146
1969-1970	92,638	64,838	27,800	6,437
1970-1971	111,737	72,842	38,895	7,873
1971-1972	139,659	95,763	43,896	8,313
1972-1973	149,633	100,727	48,906	9,896

Table 3. RECEIPTS AND DISBURSEMENTS OF THE BUREAU OF CONVEYANCES FROM 1963 TO 1973

Fiscal Year Ending June 30	Receipts			Disbursements		
	Total	Regular System	Land Court System	Total	Regular System	Land Court System
1963-64	360,775.00	241,327.70	119,447.30	236,623.99	149,042.46	87,581.53
1964-65	412,761.75	285,556.95	127,204.80	208,090.75	109,908.77	98,181.98
1965-66	417,023.20	282,555.30	134,467.90	244,667.91	133,111.94	111,555.97
1966-67	346,800.75	225,594.85	121,205.90	317,807.94	168,438.24	149,369.76
1967-68	410,961.30	282,399.70	128,561.60	331,976.00	173,554.00	158,422.00
1968-69	459,689.30	326,575.55	133,113.75	339,068.04	186,487.42	152,580.62
1969-70	473,759.05	342,879.30	130,879.75	377,681.00	207,724.55	169,956.45
1970-71	558,738.40	374,530.85	184,207.55	420,067.59	273,674.07	146,393.52
1971-72	722,417.50	518,235.75	204,181.75	431,622.00	284,870.52	146,751.48
1972-73	789,596.15	557,988.10	231,608.05	414,121.00	273,319.86	140,801.14
10 yr. Total	4,952,522.40	3,437,644.05	1,514,878.35	3,321,726.22	1,960,131.83	1,361,594.39

Table 4. VALUE OF PROPERTY TRANSFER IN THE STATE OF HAWAII, BY COUNTIES, 1963-1973¹

Year ²	Maui		Honolulu		Hawaii		Kauai		State of Hawaii
	% of State	Amount	% of State	Amount	% of State	Amount	% of State	Amount	
1972-73	8.73	151,669,689	75.33	1,308,351,753	10.99	190,953,720	4.93	85,781,239	1,736,756,401
1971-72	6.83	82,808,109	76.23	923,404,228	13.65	165,361,381	3.27	39,695,507	1,211,269,225
1970-71	6.48	62,795,784	80.25	778,023,602	10.95	106,147,375	2.32	22,520,001	969,486,762
1969-70	9.86	81,144,955	72.55	596,804,446	14.20	116,747,734	0.33	27,968,311	822,665,446
1968-69	9.64	70,002,720	77.43	626,956,508	11.13	90,146,136	2.73	22,534,292	809,639,656
1967-68	5.89	31,161,313	79.35	419,762,778	12.58	66,555,325	2.17	11,492,954	528,972,370
1966-67	4.94	10,825,300	83.26	182,315,500	8.44	18,469,200	3.36	7,356,000	218,966,000
1965-66	6.13	8,173,500	81.38	108,486,500	9.77	13,029,500	2.71	3,611,500	133,301,000
1964-65	5.56	5,647,000	78.93	80,103,200	12.54	12,722,400	2.97	3,009,500	101,482,100
1963-64	7.63	7,802,500	83.37	85,231,235	7.75	7,923,200	1.25	1,275,100	102,240,035

¹Includes fee simple and leasehold sales of property. Does not include bequests, gifts, etc.

²Fiscal year ending June 30.

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 1958-59 to 1972-73

Years Ending June 30	Freshwater Game Fishing		Hunting	
	Number Issued	Collections (dollars)	Number Issued	Collections (dollars)
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
1967-1968 ...	3,867	12,840.29	8,510	61,131.03
1968-1969 ...	3,798	12,050.56	8,629	62,044.86
1969-1970 ...	5,070	16,128.81	9,773	70,386.89
1970-1971 ...	5,551	17,550.71	10,302	75,109.30
1971-1972 ...	7,759	24,104.99	11,178	79,993.98
1972-1973 ...	6,902	21,337.11	12,764	92,110.99

Table 2. COMMERCIAL FISHING LICENSES AND PERMITS 1972-73

Kind of Licenses and Permit	Number	Collections (dollars)
Commercial Fishing—Resident ...	1,654	\$16,540.00
Commercial Fishing— Non-Resident	23	460.00
Mullet License	114	398.50
Lobster License	1	2.50
Samoan Crab License	1	2.50
Commercial Bait Permit	54	54.00
Duplicate Commercial Fishing License	10	5.00
TOTAL	1,857	\$17,462.50

Table 3. COLLECTIONS—ALL SOURCES: 1964-65 to 1972-73

Year Ending June 30	All Collections	Commercial Fishing	Freshwater Game Fishing	Hunting	Miscellaneous Licenses, Permits, and Other Income
1972-1973	\$132,668.02	\$17,462.50	\$21,337.11	\$92,110.99	\$1,757.42
1971-1972	122,118.07	16,186.50	24,104.99	79,993.98	1,832.60
1970-1971	113,611.51	19,388.25	17,550.71	75,109.30	1,563.25
1969-1970	105,327.60	17,690.40	16,128.81	70,386.89	1,121.50
1968-1969	89,157.92	14,532.50	12,050.56	62,044.86	530.00
1967-1968	85,789.02	11,052.20	12,840.29	61,131.03	765.50
1966-1967	76,555.94	11,310.65	10,866.75	52,786.70	1,591.84
1965-1966	78,735.43	9,937.00	11,932.48	50,275.13	6,590.82
1964-1965	60,903.57	10,078.00	9,385.87	37,228.57	4,211.13

Table 4. FRESHWATER GAME FISHING LICENSE: 1972-73

Type	Hawaii		Maui		Oahu		Kauai		State	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	18	\$66.19	1	\$3.75	4,723	\$16,856.92	520	\$1,867.53	5,262	\$18,794.39
Non-Resident	—	—	—	—	13	93.35	8	53.82	21	147.17
Juvenile	5	7.42	—	—	1,325	1,897.45	116	166.98	1,446	2,071.85
Tourist	1	3.75	—	—	49	175.86	27	98.41	77	278.02
Duplicate	—	—	—	—	79	37.51	17	8.17	96	45.68
TOTAL	24	\$77.36	1	\$3.75	6,189	\$19,061.09	688	\$2,194.91	6,902	\$21,337.11

Table 5. HUNTING LICENSES: 1972-73

Type	Hawaii		Maui		Oahu		Kauai		State	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	3,678	\$26,352.94	2,358	\$16,948.69	4,501	\$32,263.29	1,470	\$10,565.96	12,007	\$86,130.88
Non-Resident	321	4,593.75	51	736.50	25	361.50	8	115.50	405	5,807.25
Duplicate	89	44.50	124	61.11	77	37.19	62	30.06	352	172.86
TOTAL	4,088	\$30,991.19	2,533	\$17,746.30	4,603	\$32,661.98	1,540	\$10,711.52	12,764	\$92,110.99

Table 6. MISCELLANEOUS GAME LICENSES, SALES AND RENTAL: 1972-73

	Number	Amount (dollars)
Game Bird Farm License	72	\$ 72.00
Sale of Publications		34.25
Sale of Confiscated Legal Hunting Gear		744.37
Sale of Confiscated Fishing Gear		18.80
Rental of Hunting Cabins— Hawaii		888.00
TOTAL	239	\$1,757.42

Table 7. MISCELLANEOUS PERMITS (NO CHARGE) 1972-73

Type	Number
Permit to Destroy Birds or Mammals	15
Scientific Collecting Permit	26
Field Trial Permit	2
Permit for Entry on Bird Sanctuaries	6
Aquarium Fish Permit	365
Permit to Keep Birds in Captivity	2
Permit to Take and Destroy Birds Which Constitute a Nuisance	4
Group Permit	2
Other Permits	2
TOTAL	424

Table 8. FEDERAL AID FUNDS 1972-73

Type	Amount (dollars)
Pittman-Robertson Federal Aid in Wildlife Restoration Fund	\$142,455.80
Dingell-Johnson Federal Aid in Fish Restoration Fund	103,136.06
Nene Restoration Project Fund	17,809.94
Hawaiian Islands National Wildlife Refuge Fund	—
Commercial Fisheries Research & Development (P.L. 88-309) Fund	17,218.95
TOTAL	\$280,620.75

**Table 9
COMMERCIAL FISH CATCH BY SPECIES, STATE OF HAWAII—
FISCAL YEAR JULY, 1972 - JUNE, 1973**

Sea Catch by Species					
Species	Pounds	Value	Species	Pounds	Value
Aku (Skipjack)	10,630,439	\$3,002,415	Pualu	6,299	\$ 2,016
Ahi (Yellowfin)	612,129	482,399	Puhi (eel)	4,918	443
Ahipalaha (Albacore)	16,041	10,185	Puhi (white eel)	983	167
Ahi (Bigeye)	456,261	732,024	Uhu	3,428	1,470
Kawakawa	36,372	9,343	Ukikiki (Gindai)	1,996	1,941
Swordfishes	15	—	Uouoa	348	314
Stripe Marlin	78,448	63,101	Uu (Menpachi)	21,186	18,587
Pacific Blue Marlin*	55,607	728	Weke	41,387	18,490
Black Marlin**	1,035	100	Malu	206	158
Broadbill	332	—	Saba	29	12
A'u lepe (Sailfish)	598	194	Crab (Papai-Misc.)	3,052	2,105
Mahimahi	106,501	89,378	Crab (Kona)	62,515	96,452
Ono	64,460	25,908	Crab (Kuahonu)	34,237	41,755
Hapuupuu	43,599	41,588	Crab (Moala)	578	388
Kahala	64,486	41,154	Crab (Samoan)	80	114
Kalekale	6,024	7,352	Opae (Shrimp)	1,099	2,493
Omilu	907	679	Ula (Lobster)	5,101	7,359
Opakapaka	94,072	85,724	Ulapapapa	53	68
Uku	51,672	36,781	Hee (Octopus)	10,385	9,932
Ulaula (Ehu)	23,849	35,455	Muhee (True Squid)	2,168	1,500
Ulaula Koae (Onaga)	36,775	64,567	Opihi (Limpet)	17,169	18,419
Ulua	37,245	28,682	Honu (Turtle)	33,060	13,487
Weke-ula	17,532	16,768	Misc.	154,702	70,079
Aawa	995	200	TOTAL	14,014,927	\$5,668,569
Aholehole	2,757	2,396	Pond Catch by Species		
Akule	603,360	263,886	Species	Pounds	Value
Hahalalu	219,606	90,300	Ulua	714	\$ 440
Amaama (Mullet)	14,375	18,141	Aholehole	614	515
Awa	8,636	3,502	Amaama (Mullet)	2,304	2,580
Aweoweo	4,689	2,866	Awa	712	344
Humuhumu (Hage)	988	418	Awaawa	242	89
Kaku (Barracuda)	3,298	1,220	Kaku	483	358
Kala	17,508	3,396	Moi	76	22
Kawealea	2,105	1,418	Oio	7,541	3,276
Kumu	8,813	15,165	Crab (Papai-Misc.)	15	6
Laenihi (Nabeta)	2,711	2,488	Crab (Kuahonu)	193	—
Lehi	4,522	3,119	Crab (Moala)	58	3
Maomao (Mamo)	1,946	1,105	Crab (Samoan)	391	201
Manini	9,234	7,186	Opae (Shrimp)	1	—
Moano	8,961	7,337	Misc.	1,220	377
Moi	7,387	8,601	TOTAL	14,564	\$ 8,211
Moelua	16,449	12,851	GRAND TOTAL	14,029,491	\$5,676,780
Nenue	4,746	2,089			
Nohu (Hogo)	2,097	1,339			
Oio	44,823	20,282			
Opelu	174,091	113,382			
Palani	11,452	3,608			

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

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

Table 10. COMMERCIAL FISH LANDINGS BY ISLAND, STATE OF HAWAII
Fiscal Year - July, 1972 through June, 1973

Island	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Hawaii	1,097,653	\$ 560,631	1,655	\$2,081	1,099,308	\$ 562,712
Maui	749,001	206,519	—	—	749,001	206,519
Lanai	14,545	8,077	—	—	14,545	8,077
Molokai	26,462	15,797	1,417	—	27,879	15,797
Oahu	11,815,865	4,761,539	11,492	6,130	11,827,357	4,767,669
Kauai	311,401	116,006	—	—	311,401	116,006
TOTAL	14,014,927	\$5,668,569	14,564	\$8,211	14,029,491	\$5,676,780

Table 11. COMMERCIAL FISH LANDINGS BY MONTH, STATE OF HAWAII
Fiscal Year - July, 1972 through June, 1973

Month	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
1972						
July	2,187,944	\$ 610,783	1,279	\$ 552	2,189,223	\$ 611,335
August	2,344,984	676,225	865	542	2,345,849	676,767
September	1,414,017	477,132	1,048	592	1,415,065	477,724
October	1,034,763	422,604	1,600	982	1,036,363	423,586
November	530,558	344,060	1,409	859	531,967	344,919
December	823,641	550,145	1,755	870	825,396	551,015
1973						
January	329,468	237,503	1,132	741	330,600	238,244
February	362,966	293,181	1,319	616	364,285	293,797
March	322,034	283,212	743	367	322,777	283,579
April	964,333	462,694	1,213	999	965,546	463,693
May	1,324,800	587,543	1,052	541	1,325,852	588,084
June	2,375,419	723,487	1,149	550	2,376,568	724,037
TOTAL	14,014,927	\$5,668,569	14,564	\$8,211	14,029,491	\$5,676,780

Table 12. FISHING AND HUNTING VIOLATIONS 1972-73

Type of Violation	Number	Type of Violation	Number
FISHING VIOLATIONS		HUNTING VIOLATIONS	
Fishing with illegal mesh nets/throw nets	25	Hunting without license	18
Taking and possession of lobster with spear, below legal weight, during closed season and with eggs	56	Failure to check in/out at hunter checking stations	11
Taking oysters during closed season	11	Hunting and possession of game birds and game mammals during the closed season, and failure to tag game	16
Taking and possession of sea mullet during closed season	15	Hunting game mammals in game management areas without wearing bright orange colored garment	12
Possession of octopus below the legal weight	14	Hunting in game management areas at night	5
Fishing in a marine life conservation district	4	Hunting and possession of firearms in game management areas without permit	5
Unlawful entry and fishing in freshwater fish refuge and public fishing area without permit	5	Failure to display hunting license and unlawful transfer of hunting license to another person	11
Fishing in prohibited zone within a public fishing area	5	Unlawful carriage and carrying loaded firearms in vehicle	16
Fishing without freshwater fishing license, and failure to display license	33	Hunting with rifle of less than 1,200 foot pounds muzzle energy, and possession of unauthorized ammunition	2
Commercial fishing without license, selling undersized fish, and unlawful sale of bait fish	4	Operating vehicle off designated roadway in a game management area	1
Possession of Kona crabs with eggs	2	Hunting and possession of firearms in closed and restricted areas	25
Taking and spearing fish below the legal size limit	3	Keeping alive wild birds and game birds without permit ...	2
Taking bait fish without a bait permit	1	TOTAL HUNTING VIOLATIONS	124
Unlawful use of nets in restricted waters	5	MISCELLANEOUS VIOLATIONS	
Possession and use of unlawful gear in a public fishing area	4	Assault on a Fish and Wildlife Enforcement Officer	1
Fishing with thrownet and with more than one (1) pole in a public fishing area	3		
TOTAL FISHING VIOLATIONS	190		

Table 13. ARRESTS, CITATIONS AND DISPOSITION 1972-73

Subject	The State	Hawaii County	Kauai County	Maui County	Honolulu County
Citations	300	46	41	85	128
Arrests	5	—	—	3	2
Number of charges	315 (44)*	46 (7)*	41	97 (13)*	131 (24)*
Bail Forfeitures	102 (18)*	24 (5)*	2	31 (8)*	45 (5)*
Juvenile Authorities/Court	41 (5)*	6	5	21 (3)*	9 (2)*
Cases Pending	45	—	1	16	28
Cases Dismissed	16 (7)*	5 (1)*	—	1 (1)*	10 (5)*
Convictions	111 (14)*	12 (1)*	32	29 (1)*	38 (12)*
Fines	41 (6)*	3 (1)*	11	14	13 (5)*
Suspended Fines	26 (5)*	1	9	9	7 (5)*
Suspended Sentences	18 (1)*	4	—	— (1)*	14
Split Fines (Fines, Suspended Fines, Suspended Sentences/Jail Sentence)	26 (2)*	4	12	6	4 (2)*

*Numbers in parenthesis represent pending cases from FY 1971-72 that were disposed of during this period but which were not included in the 1972-73 totals.

Table 14. INCOME FROM CITATIONS AND ARRESTS 1972-73

State/Counties	Fines	Bail Forfeitures	Suspended Fines
The State	\$1,170.00	\$2,800.00	\$1,185.00
Hawaii County	80.00	650.00	70.00
Kauai County	420.00	40.00	475.00
Maui County	355.00	860.00	325.00
Honolulu County	315.00	1,250.00	315.00

DIVISION OF FORESTRY

Table 1. FOREST INCOME. FISCAL YEAR 1972-73

Source	Hawaii	Kauai	Maui	Molokai	Oahu	Central Nursery	Total
Nursery Sales	417	52	279	—	206	238	1,192
Sale of Forest Products:							
Timber	1,673	12	—	—	—	—	1,685
Other ¹	1,146	377	1,811	—	250	—	3,584
Total Non-Federal	3,236	441	2,090	—	450	238	6,461
Federal Assistance Program: ²							
Clarke-McNary, Sec. 2 (Forest Fire Protection)							77,291
Cooperative Forest Management							20,776
Title IV Reforestation							36,512
Pest Control Program							20,576
Total Federal							155,155
GRAND TOTAL							161,616

¹Numerous items including bamboo, paperback, Christmas trees, plants for Arbor Day, disposed property, sale and service rendered other departments.

Receipts reported above do not include those from sales of water originating within the forest reserve.

²Includes part of last fiscal year's income not previously shown in preceding annual report.

Table 2. SILVICULTURAL PROGRAM IN FOREST RESERVES, FISCAL YEAR 1973

Island	Activity						Noxious Plant Control
	Planting	Replanting	Natural Regeneration	Weeding	Pruning	Thinning	
	ACRES						
Hawaii	15	6	425	144	0	0	1
Kauai	46	2	0	57	50	0	20
Maui	60	140	0	264	4	0	601
Molokai	35	13	0	6	197	0	0
Oahu	6	0	0	10	0	0	0
State	162	161	425	481	251	0	622

Table 3. ACRES AND NUMBERS OF TREES PLANTED BY SPECIES AND FOREST RESERVE, FISCAL YEAR 1973¹

Species	Hamakua (Hawaii)	Hanalei (Kauai)	Kalepa (Kauai)	Puu Ka Pele (Kauai)	Wailua (Kauai)	Makawao (Maui)	Koolau (Maui)	Kula (Maui)	Molokai (Molokai)	Kauakala (Oahu)	All Forest Reserves
Australian redcedar	3 (1,000)	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Toona ciliata</i> v. <i>aus.</i>	—	—	—	—	—	—	—	—	—	—	4 (1,700)
Bagras eucalyptus	—	—	—	—	—	—	4 (1,700)	—	—	—	9 (3,700)
<i>Eucalyptus deglupta</i>	9 (3,700)	—	—	—	—	—	—	—	—	—	1 (550)
Blackbutt eucalyptus	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Eucalyptus pilularis</i>	—	1 (550)	—	—	—	—	—	—	—	—	3 (1,000)
Blackwood acacia	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Acacia melanoxylon</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Ironwood	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Casuarina</i> spp.	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Nepal alder	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Alnus nepalensis</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Pine, slash	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Pinus elliotii</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Queensland-maple	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Flindersia brayleyana</i>	3 (1,300)	1 (550)	—	—	—	—	—	—	—	—	3 (1,000)
Redwood	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Sequoia sempervirens</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Saligna	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Eucalyptus saligna</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Shortleaf ironwood	—	—	—	—	—	—	—	—	—	—	3 (1,000)
<i>Casuarina equisetifolia</i>	—	—	—	—	—	—	—	—	—	—	3 (1,000)
Miscellaneous ²	—	—	—	—	—	—	—	—	—	—	3 (1,000)
TOTALS	15 (6,000)	2 (1,100)	27 (8,700)	— (8)	17 (9,122)	6 (2,700)	53 (18,709)	1 (200)	35 (15,300)	6 (5,652)	162 (67,491)

¹Within body of table, numbers not enclosed in parentheses are acres; those enclosed are number of trees.

²Includes: 13 Nepal alder (*Alnus nepalensis*), 4 Panama pine (*Araucaria angustifolia*), 9 Koki'o-Ke'oke-o (*Hibiscus waimeae*), 1 Koko (*Kokia kauaiensis*), 185 Hoawa (*Platysporum hosmeri*), 85 Hame (*Antidesma pulvinatum*), 20 Manele (*Sapindus saponaria*), 12 Kopiko (*Straussia* sp.), 48 Loulu (*Pritchardia* sp.), 20 Kolea (*Suifonia* sp.), 12 Pa-makani (*Hibiscus arnottianus*), 25 Na'u (*Gardenia brighamii*), 10 Hau-kuahwi (*Hibiscadelphus hualalaensis*), 5 Holei (*Ochrosia sandwicensis*), 5 Kaula (*Colubrina oppositifolia*), 15 Lama (*Dyosperus sandwicensis*), 20 Akiohala (*Hibiscus youngianus*).

Table 4. NURSERY PRODUCTION, FISCAL YEAR 1972-73

Land Ownership Class	Central Tree Nursery			Hilo		Kauai		Maui		State	
	Timber & Other	Wind- break	Timber & Other	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break
Federal	69,416	—	—	—	—	1,771	153	10	—	1,781	153
State Forest Reserve	—	—	7,600	—	—	20,735	—	10,925	—	108,676	—
Other State Lands	—	4,000	—	—	—	155	335	810	25	965	4,360
Town, City, County and Public Schools	—	750	—	—	—	196	30	146	60	342	840
Persons, Clubs, Associations and Private Schools	70,139	91,359	—	—	—	4,052	409	542	10	74,733	91,778
Forest Reserves, not State Owned	2,800	—	—	—	—	150	—	—	—	2,950	—
Plantations, Ranches, Power Companies, Not in Forest Reserves	19,200	1,650	—	—	—	—	—	24	—	19,224	1,650
Total Timber	161,555	97,759	7,600	27,059	—	12,457	927	208,671	95	98,781	20,874
Total Windbreak	—	—	1,148	—	—	1,371	—	—	—	—	—
Ornamental, endemic, misc.	259,314	—	—	—	—	—	—	—	—	—	—
All	—	—	—	—	—	—	—	—	—	—	—
	259,314	8,748	27,986	13,923	98,781	2,519	309,971				

Table 5. FOREST AND BRUSH FIRES. FISCAL YEAR 1972-1973

(A) Location, number, acres burned		
Location	Number	Acres Burned
Division of Forestry Protection Area		
Hawaii	20	13,598
Kauai	3	10
Maui	5	156
Molokai	1	400
Oahu	21	2,816
Total	50	16,980
Mutual aid fires to which Division of Forestry responded outside of protection area.		
Total	8	3,785

(B) Name, date, areas and cause of individual fires 10 acres or larger

Island	Name	Date	Acres Burned	Cause
Hawaii	Kahaualea	8/10/72	20	Volcano Activity
	Keaau	9/ 2/72	20	Smoker
	Waikahehahe	11/29/72	120	Equipment
	Kalala	2/19/73	25	Arson (?)
	Pohakuloa	2/19/73	30	Unknown
	Kemole	3/12/73	200	Lighting
	Kawaihae, Ouli, Lalamilo, Waikalua (South Kohala)	3/16/73	10,000	Smoker

(B) Continued

Island	Name	Date	Acres Burned	Cause
	Kaupulehu (Hualalai Ranch)	4/25/73	300	Arson
	Kawaihae I	5/27/73	110	Debris
	Kawaihae I & II (South Kohala)	6/ 5/73	2,700	Debris
	Kawaihae I	6/27/73	200	Arson (?)
	Puuwaawaa	6/28/73	50	Arson (?)
	Puuwaawaa	6/29/73	60	Unknown
Maui	Waiopae	8/15/72	18	Campers
	Haleakala Homestead	8/16/72	111	Unknown
	Kaupo	10/ 5/72	25	Smoker
	Peahi	5/ 7/73	45	Debris
Molokai	Kamiloloa-Kapaakea	3/25/73	400	Hunter
Oahu	Puukapu	7/19/72	11	Unknown
	Kawailoa	7/26/72	130	Unknown
	Puu Makakilo	8/16/72	368	Smoker
	Waiawa	8/16/72	1,060	Smoker (?)
	Keolu Hills	9/20/72	40	Sparks from fallen wire
	Kawailoa	10/15/72	64	Unknown
	Manana	10/17/72	828	Unknown
	Kuliouou-Kaalakei	10/23/72	12	Unknown
	Poamoho	1/23/73	35	Military
	Kaalaea	1/22/73	10	Fallen electric line
	Puu Makakilo	3/14/73	80	Arson (?)
	Nanakuli Valley	5/19/73	150	Hikers

Table 6. ROADS, TRAILS, AND FENCES. FISCAL YEAR 1972-73

	Construction			Maintenance		
	Roads	Trails	Fences	Roads	Trails	Fences
	feet					
Hawaii	—	—	2,904	810,744	211,464	127,512
Kauai	5,280	11,352	—	261,888	320,074	3,907
Molokai	—	—	—	273,082	370	28,987
Maui	—	19,536	7,550	278,784	63,624	64,469
Oahu	8,342	—	8,817	30,360	131,208	211
Total	13,622	30,888	19,271	1,654,858	726,740	225,086
Miles	2.58	5.85	3.65	313.42	137.64	42.63

Table 7. SURRENDER AGREEMENTS FOR PRIVATE LANDS IN CONSERVATION DISTRICTS, JUNE 30, 1973.

Land	Forest Reserve	Owners	Date of Expiration	Term	Area (Acres)
Kauai:					
Wainiha	Halelea	McBryde Sugar Company	2-14-1989	20	10,120
Oahu:					10,120
Honouliuli ¹	Honouliuli	James Campbell Estate	12-31-76	20	4,911
Laie	Kahuku	Zions Securities Corporation	5-22-1988	20	2,560
Kaipapau	Kaipapau	Zions Securities Corporation	5-22-1988	20	276
					7,747
Molokai:					
Naiwa 3	Molokai	Molokai Ranch Company	7- 3-2001	50	53
Manowainui	Molokai	Molokai Ranch Company	7- 3-2001	50	50
Kaunakakai	Molokai	Molokai Ranch Company	7- 3-2001	50	965
Makakupaia	Molokai	Molokai Ranch Company	7- 3-2001	50	654
Kawela	Molokai	Molokai Ranch Company	7- 3-2001	50	33,850
					5,572
Maui:					
Kipahulu	Kipahulu	Ulupalakua Ranch Company	12-31-1978	20	3,519
					3,519
Hawaii:					
Kukuau I ¹	Hilo	Kinoole Development Co.	12-31-1977	30	2,979
					2,979
GRAND TOTAL					29,937

Table 8. FOREST AND WATER RESERVE WITHIN CONSERVATION DISTRICT, JUNE 30, 1973
(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
Haupt	3,230.00	—	—	—	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
Moloka	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	—	—	—	—
Papapaholahola	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	—	—	—	—
Lualualei ¹	3,710.00	—	—	—	3,710.00	—
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	—
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	5,715.529	—	—	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
Kahalu	3,827.00	—	—	—	—	3,827.00
Kapapala	37,416.00	37,416.00	—	—	—	—
Kau	61,389.80	56,805.80	—	—	—	4,584.00
Kaupelehu	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	—	—	—	—

¹Under control of U.S. Navy.

Table 9. PUBLICATIONS, DIVISION OF FORESTRY AND INSTITUTE OF PACIFIC ISLANDS FORESTRY, F.Y. 1973

Burgan, Robert E. and Robert E. Nelson

1972. Decline of ohia-lehua forests in Hawaii. USDA Forest Serv. General Tech. Rep. PSW-3. Pacific Southwest Forest and Range Exp. Stn., Berkeley, California 4 p. illus.

Nelson, Robert E. and Clifton J. Davis

1972. Black twig borer... a tree killer in Hawaii. USDA Forest Serv. Res. Note PSW-274. Pacific Southwest Forest and Range Exp. Stn., Berkeley, California

Walters, Gerald A.

1972. Chemical treatment of bare-root saligna eucalyptus seedlings offers no advantages. USDA Forest Serv. Tree Planters' Notes 23(4): 4-7.

Walters, Gerald A.

1972. Coppicing to convert small cull trees to growing stock. USDA Forest Serv. Res. Note PSW-272. Pacific Southwest Forest and Range Exp. Stn., Berkeley, California 4 p. illus.

Walters, Gerald A.

1973. Growth of saligna eucalyptus. A spacing study after 10 years. J. Forestry 71(6): 346-348, illus.

Walters, Gerald A.

1972. Packing methods studied for Australian toon and slash pine plantings. USDA Forest Serv. Tree Planters' Notes. 23(4): 7-9.

Walters, Gerald A.

1972. Pesticide treatments on saligna eucalyptus, Australian toon seedlings affect dieback but not survival. Tree Planters' Notes 23(3): 16-18.

PUBLICATIONS BY INSTITUTE OF PACIFIC ISLANDS FORESTRY—July 1972 to June 1973

Walters, Gerald A.

1972. Coppicing to Convert Small Cull Trees to Growing Stock. U.S. Forest Serv. Res. Note PSW-272. Pacific SW Forest & Range Exp. Stn., Berkeley, Calif. 4 p., illus.

Walters, Gerald A.

1972. Pesticide Treatments on Saligna Eucalyptus, Australian Toon Seedlings Affect Dieback But Not Survival. Tree Planters' Notes 23(3): 16-18.

Burgan, Robert E. and Robert E. Nelson

1972. Decline of Ohia Lehua Forests in Hawaii. U.S. Forest Serv. General Tech. Rep. PSW-3. Pacific SW Forest & Range Exp. Stn., Berkeley, Calif. 4 p., illus.

Nelson, Robert E. and Clifton J. Davis

1972. Black twig borer... a tree killer in Hawaii. U.S. Forest Serv. Res. Note PSW-274. Pacific SW Forest & Range Exp. Stn., Berkeley, Calif. 3 p.

Walters, Gerald A.

1972. Chemical Treatment of Bare-root Saligna Eucalyptus Seedlings Offers no Advantages. Tree Planters' Notes. 23(4): 4-7

Walters, Gerald A.

1972. Packing Methods Studied for Australian Toon and Slash Pine Plantings. Tree Planters' Notes. 23(4): 7-9

Walters, Gerald A.

1973. Growth of Saligna Eucalyptus. A Spacing Study after 10 years. J. For. 71(6): 346-348, illus.

DIVISION OF LAND MANAGEMENT

Table 1. LAND OWNERSHIP OR TENURE FOR HAWAII AS OF JUNE 30, 1968

	Federal Govt. ¹	Hawaii State Govt. ²	Major Private Landowners	Others ³	Total Land Area of Island
Island of Hawaii	241,858	1,106,126	1,052,583	183,753	2,584,320
Island of Kahoolawe	28,800				28,800
Island of Kauai	2,306	153,305	176,953	21,548	354,112
Island of Lanai	8		87,832	1,440	89,280
Island of Maui	26,478	204,895	221,223	13,843	466,439
Island of Molokai	78	53,019	110,444	3,563	167,104
Island of Niihau			46,705	15	46,720
Island of Oahu	56,241	64,810	221,820	46,057	388,928
Other ⁴		2,560			2,560
TOTAL	355,769	1,584,715	1,917,560	270,219	4,128,263

NOTE: Total area figures are compiled from 1967-68 census study; others are estimates.

¹Includes fee simple and ceded land.

²Includes Hawaii State land which is managed by the county governments and various State agencies, and Hawaiian Homes Commission lands.

³Includes private landowners who own less than 1,000 acres in fee simple and county land which was acquired by purchase or gift in the name of the counties.

⁴Includes Kure Atoll, Lisianski Isl., Laysan Isl., Gardner Pinnacles, French Frigate Shoals, Necker Isl., Nihoa, Lehua and Kaula.

Table 2. STATE-OWNED LAND BY COUNTIES AS OF JUNE 30, 1968

Political Unit	Total Land Area (acres)	State-Owned Lands (acres)	% State-Owned
STATE	4,128,263	1,584,715**	38.4
County			
Honolulu	390,976*	66,858*	17.1
Maui and Kalawao	751,623	257,914	34.3
Hawaii	2,854,320	1,106,126	42.8
Kauai	401,344	153,817	38.3

*Includes 2,560 acres of Kure Atoll, Lisianski Island etc. as listed in preceding table, except for 512 acres for Lehua and Kaula which are listed under Kauai area.

**Does not include 171,503 acres of State lands under executive order to the United States. (Figure is approximate).

PUBLIC TRUST FUND CEDED LAND PROCEEDS Land Management Program

	Actual 1972-1973	Estimated 1973-1974
Receipts: (All Chapter 171 HRS)		
Rentals, Leased Public Lands	\$2,659,135	\$2,700,000
Rentals, Unleased Public Lands	960,438	950,000
Sale of Wood, Rock and Sand	101,666	105,000
License, Use of Government Water	259,857	260,000
License, Use of Government Land for Specific Purposes	63,295	60,000
TOTAL RECEIPTS	\$4,044,391	\$4,075,000
Expenditures:		
Revenue from Hawaiian Homes Lands and Transfers*	\$ 349,752	\$ 240,000
Transfers to General Fund	3,694,639	3,835,000
TOTAL TRANSFERS	\$4,044,391	\$4,075,000
*Hawaiian Home Lands Receipts:		
Loan Fund (Act 4, SLH 1965)	\$ 115,832	\$ —
Administration Fund	233,920	240,000
Development Fund	—	—
TOTAL	\$ 349,752	\$ 240,000

GENERAL FUND REVENUES Land Management Program

	Fee Schedule	Actual 1972-1973	Estimated 1973-1974
Title of Receipt and Legal Reference			
Conveyance Tax (Act 5/68)	\$.50 per 100	\$ 1,557	\$ 1,600
Forfeiture for Failure to Return Plans and Specifications	\$25.00 per plan & spec.	25	—
Fees, Copies of Public Documents	\$.50 per page	569	400
Fees, Issuance of Land Patents, etc.	\$20.00 each	7,640	7,500
Fees, Consents to Transfers, etc.	\$15.00 each	990	1,000
Fees, Surveying Public Lands	\$25.00 each	3,925	3,500
Fees, Appraisals	—	—	300
Sale of Publications	—	123	100
Sale of Improvements on Expired or Cancelled Leases	—	—	—
Cost of Managing Property Acquired for Highway Purposes ..	—	10,534	11,000
Indemnity for Damages to Insured Property	—	—	3,000
Sale of Wood, Rock and Sand	—	2,277	2,500
Interest on Delinquent Accounts	—	(207)	—
Witness or Juror Fees	—	29	25
Sales of Equipment or other Property	—	—	—
Refund/Reimbursement of Prior Period Expenditures	—	98,031	5,000
Transfer Balance—Sand Island Revenues	—	24,550	25,000
TOTAL GENERAL FUND REVENUES		\$150,043	\$60,925

SPECIAL LAND AND DEVELOPMENT FUND
Land Management Program

	Actual 1972-1973	Estimated 1973-1974
Balance at the beginning:	\$3,428,849	\$3,943,474
Receipts:		
Transfers In	\$ —	\$ —
Interest on Deferred Payments	83,641	120,000
Sale of Public Lands	1,205,716	1,300,000
Reimbursable Expenditures	8,809	15,000
Refunds and Reimbursements of Prior Year's Expenditures	—	—
Sub-totals	1,298,166	1,435,000
TOTAL RECEIPTS	\$4,727,015	\$5,378,474
Expenditures:		
Land & Interest in Land	\$ 47,708	\$ 50,000
Structures & Permanent Improvements to Land	159,535	43
Transfers Out:		
County of Hawaii	28,000	—
County of Maui	—	—
Bond Fund Repayments	503,216	490,000
Administrative Costs	45,082	75,000
TOTAL EXPENDITURES	\$ 783,541	\$ 615,043
Balance at end	\$3,943,474	\$4,763,431

**GENERAL LEASES ISSUED—ALL ISLANDS
July 1, 1972 to June 30, 1973**

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ...	379.379	\$32,882.00	13
Business	—	—	—
Cane	3.640	90.00	1
County	—	—	—
Eleemosynary	17.796	251.00	3
Federal	—	—	—
Fishpond	—	—	—
Industrial	1.308	11,000.00	2
Pasture	14.100	330.00	1
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way	6.701	4,262.65	6
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	422.924	\$48,815.65	26

GENERAL LEASES—SUMMARY, ALL ISLANDS as of June 30, 1973

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	3,864.147	\$ 130,679.28	159
Business	430.947	337,474.16	73
Cane	28,221.078	669,566.48	40
County	70.869	5.00	18
Eleemosynary	572.073	17,643.00	29
Federal	30,825.255	612.00	25
Fishpond	50.867	629.40	1
Industrial	282.753	561,398.62	93
Pasture	202,759.639	182,460.81	130
Pineapple	975.245	22,561.45	3
Recreational	24.199	1,505.00	5
Residential	133.969	20,361.50	143
Rights of way	467.309	24,233.49	102
State	13,321.054	—	1
Waste	15,335.984	367.93	—
Water Licenses, etc.	27,592.576	214,294.00	12
TOTALS	324,927.964	\$2,166,672.67	834

SUMMARY OF DISPOSITIONS, ALL ISLANDS—From July 1, 1972 to June 30, 1973

Counties	Executive Orders	Sales in Fee*	General Leases**	Revocable Permits**	Grand Total
HAWAII: (1st Land District)					
Number	9	19	15	27	70
Area (Acres)	562.800	1.672	300.408	114,156.520	115,021.400
Price* or Annual Rental**	\$ —	\$51,916.19	\$33,362.00	\$532,932.96	\$618,211.15
MAUI: (2nd Land District)					
Number	2	72	7	36	117
Area (Acres)	2,048.390	17.648	105.503	8,188.434	8,311.585
Price* or Annual Rental**	\$ —	\$1,413,025.00	\$14,950.35	\$53,829.00	\$1,481,804.35
OAHU: (3rd Land District)					
Number	12	17	4	33	66
Area (Acres)	87.893	9.909	17.013	990.948	1,105.763
Price* or Annual Rental**	\$ —	\$40,806.61	\$530.30	\$195,107.16	\$236,444.07
KAUAI: (4th Land District)					
Number	3	13	—	22	38
Area (Acres)	11.888	1.391	—	156.997	170.276
Price* or Annual Rental**	\$ —	\$16,163.53	\$ —	\$5,430.00	\$21,593.53
GRAND TOTALS:					
Number	26	121	26	118	291
Area (Acres)	2,710.971	30.620	422.924	123,492.899	124,609.024
Price* or Annual Rental**	\$ —	\$1,521,911.33	\$48,815.65	\$787,299.12	\$2,358,053.10

GENERAL LEASES ISSUED—HAWAII July 1, 1972 to June 30, 1973

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ...	288.238	\$18,272.00	10
Business	—	—	—
Cane	3.640	90.00	1
County	—	—	—
Eleemosynary	1.284	100.00	1
Federal	—	—	—
Fishpond	—	—	—
Industrial	1.308	11,000.00	2
Pasture	—	—	—
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way	5.938	3,900.00	1
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	300.408	\$33,362.00	15

GENERAL LEASES ISSUED—MAUI July 1, 1972 to June 30, 1973

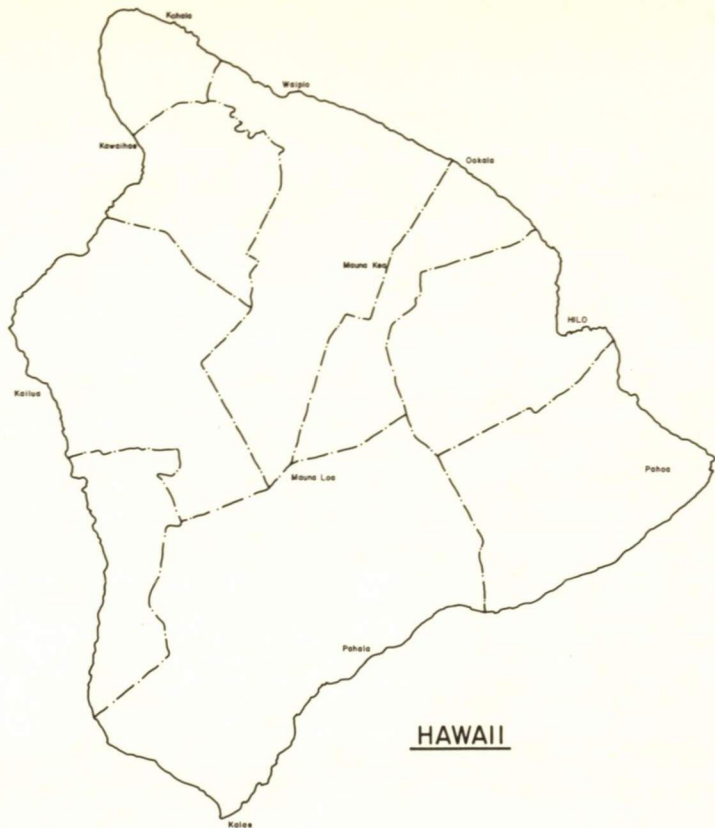
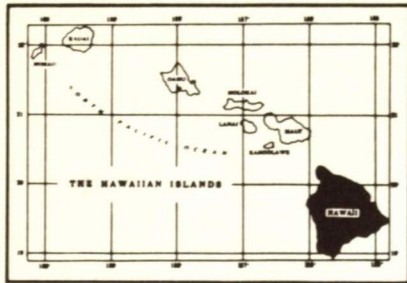
Use	Area (Acres)	Annual Rental	No.
Agriculture, General	91.141	\$14,610.00	3
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary	—	—	—
Federal	—	—	—
Fishpond	—	—	—
Industrial	—	—	—
Pasture	14.100	330.00	1
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way .....	.262	10.35	3
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	105.503	\$14,950.35	7

GENERAL LEASES ISSUED—OAHU July 1, 1972 to June 30, 1973

Use	Area (Acres)	Annual Rental	No.
Agriculture, General	—	—	—
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary	16.512	\$151.00	2
Federal	—	—	—
Fishpond	—	—	—
Industrial	—	—	—
Pasture	—	—	—
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way .....	.501	352.30	2
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	17.013	\$503.30	4

GENERAL LEASES ISSUED—KAUAI July 1, 1972 to June 30, 1973

Use	Area (Acres)	Annual Rental	No.
Agricultural, General ...	—	\$ —	—
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary	—	—	—
Federal	—	—	—
Fishpond	—	—	—
Industrial	—	—	—
Pasture	—	—	—
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way	—	—	—
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	—	\$ —	—



HAWAII

FIRST LAND DISTRICT

Island of Hawaii

GENERAL LEASES—SUMMARY, FIRST LAND DISTRICT as of June 30, 1973

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	1,977.443	\$ 51,216.10	40
Business	117.878	172,515.96	36
Cane	14,207.849	131,731.46	30
County	54.063	3.00	12
Eleemosynary	248.625	3,975.00	7
Federal	24,179.811	4.00	7
Fishpond	50.867	629.40	1
Industrial	126.929	144,579.62	61
Pasture	176,826.403	118,395.49	53
Pineapple	—	—	—
Recreational	3.700	900.00	1
Residential	14.356	6,296.50	20
Rights of way	242.165	14,173.72	33
State Agencies	13,321.054	—	1
Waste	2,740.012	259.45	—
Water Licenses, etc.	5,875.760	8,752.00	4
TOTALS	239,986.915	\$653,431.70	306

METHOD OF DISPOSITION:

*D—Direct award
All others by public auction

LAND USE COMMISSION LAND CLASSIFICATION

(A) — Agriculture
(C) — Conservation
(R) — Rural
(U) — Urban

agr — Agriculture, General
bus — Business
cane — Sugar cane
con — Contributory
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.

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
2480	Finance Investment Co., Ltd. & Inter-Island Resorts, Ltd.	8/25/36-3/14/2015	Lot 5, Ocean View Lots, South Hilo	2-1-05: 13	.720	U-bus	4,234.00
2481	Finance Investment Co., Ltd. & Inter Island Resorts, Ltd.	8/25/36-3/14/2015	Lot 8, Ocean View Lots, South Hilo	2-1-05: 17	.750	U-bus	4,764.00
2610	Finance Investment Co., Ltd. & Inter-Island Resorts, Ltd.	6/ 1/39-3/14/2015	Lot 7, Ocean View Lots, South Hilo	2-1-05: 16	2.950	U-bus	26,370.00
2899	James & Miulan Y. Kealoha	12/29/41-3/14/2015	Lot 17, Waiakea Warehouse Lots, Waiakea, South Hilo	2-1-06: 13 & 15	2.160	U-bus	9,578.00
2908	Matsuno F. Nakagawa (Mrs.)	11/ 1/42-3/31/82	Waiakea, South Hilo	2-1-15: 01	50.867	C-fpd	629.40
L-2964	Edward C. Hustace	3/15/41-(revocable)	Honuaula Mauka Tract No. 3, Kealakehe Mauka Tract, Kaloa-Ooma Mauka Tract, Makaula-Haleohiu Tract, North Kona	7-3-01:02		A-r/w	12.00
3029	Nalei, Incorporated	9/13/45-3/14/2015	Lots 12 & 12A, Ocean View Lots, South Hilo	2-1-05: 22	1.190	U-bus	8,112.00
3155	Kenneth K. Bell & Clara L. Bell	3/15/47-3/14/2015	Lot 22, Ocean View Lots, South Hilo	2-1-07:21	.163	U-res	155.00
3156	Harvey C. Chong	11/18/46-3/14/2015	Lot 23, Ocean View Lots, Waiakea, South Hilo	2-1-07: 22	.165	U-res	186.00
3157	Robert C. McKeen	11/18/46-3/14/2015	Lot 24, Ocean View Lots, Waiakea, South Hilo	2-1-07: 23	.167	U-res	366.00
3158	Hideo Funada	11/18/46-3/14/2015	Lot 25, Ocean View Lots, Waiakea, South Hilo	2-1-07: 24	.169	U-res	306.00
3160	Hannah Akamu Baker, etal. c/o Marguerite B. Frazier	11/18/46-3/14/2015	Lot 27, Ocean View Lots, Waiakea, South Hilo	2-1-07: 26	.173	U-res	159.00
3161	Hannah Akamu Baker, etal. c/o Marguerite B. Frazier	11/18/46-3/14/2015	Lot 28, Ocean View Lots, Waiakea, South Hilo	2-1-07: 27	.175	U-res	299.00
3162	Clarence Tatsuka & Kitome Ohama	11/18/46-3/14/2015	Lot 29, Ocean View Lots, Waiakea, South Hilo	2-1-07: 28	.178	U-res	163.00
3163	Kaiva & Josephine Martinson Tuiasosopo	11/18/46-3/14/2015	Lot 30, Ocean View Lots, Waiakea, South Hilo	2-1-07: 29	.180	U-res	165.00
3164	Electrical Workers Local 1260 Building Trust	11/18/46-3/14/2015	Lot 31, Ocean View Lots, Waiakea, South Hilo	2-1-07: 30	.182	U-res	167.00
3165	Lily B.L.Y. Wong (Mrs.)	11/18/46-3/14/2015	Lot 32, Ocean View Lots, Waiakea, South Hilo	2-1-07: 31	.184	U-res	169.00
3166	John W. & Adele M. Jensen	3/15/47-3/14/2015	Lot 33, Ocean View Lots, Waiakea, South Hilo	2-1-07: 32	.186	U-res	170.00
3167	William J. & Anna Mehau Payne	9/10/47-3/14/2015	Lot 34, Ocean View Lots, Waiakea, South Hilo	2-1-07: 33	.188	U-res	172.50
3168	Gaspro, Limited	9/10/47-3/14/2015	Lot 35, Ocean View Lots, Waiakea, South Hilo	2-1-07:34	.190	U-res	185.00
3169	Ernest M. & Adelaide Cabrinha	9/10/47-3/14/2015	Lot 36, Ocean View Lots, Waiakea, South Hilo	2-1-07: 35	.190	U-res	174.00
3170	Ernest M. & Adelaide Cabrinha	9/10/47-3/14/2015	Lot 37, Ocean View Lots, Waiakea, South Hilo	2-1-07: 36	.185	U-res	180.00
3202	Frank Ferreira, Jr.	5/ 1/47-11/ 1/2017	Lots 134 & 134, Lehia Park Res. Lots, South Hilo	2-1-17: 65	.425	U-res	50.00
3265	Hilo Bay Hotel, Inc.	6/ 1/49-3/14/2015	Lot 2, Ocean View Lots, Waiakea, South Hilo	2-1-05: 32	.586	U-bus	2,981.00
3266	Hilo Bay Hotel, Inc.	8/10/49-3/14/2015	Lot 3, Ocean View Lots, Waiakea, South Hilo	2-1-05: 34	.531	U-bus	2,716.00
3267	Hilo Bay Hotel, Inc.	6/ 1/49-3/14/2015	Lot 4, Ocean View Lots, Waiakea, South Hilo	2-1-05: 35	.495	U-bus	3,252.00
3268	Finance Investment Co., Ltd. & Inter-Island Resorts, Ltd.	6/ 1/49-3/14/2015	Lot 6, Ocean View Lots, Waiakea, South Hilo	2-1-05: 32	.749	U-bus	4,894.00
3269	M & Associates, Incorporated	6/ 1/49-3/14/2015	Lot 10, Ocean View Lots, Waiakea, South Hilo	2-1-05: 20	.920	U-bus	9,180.00
3354	Honokaa Sugar Company	1/ 1/52-12/31/2008	Gov't. Remainders of Papaki, Koloaha Au 1st, Hamakua	4-6-05: 08	554.580	A-cane	904.58
3424	H. Harada Contractor, Incorporated	6/ 1/52-5/31/74	Lot 6 & 8, Blk. 40, Waiakea Hseits., South Hilo	2-2-37: 98	1.019	U-ind	250.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
3428	Maurice & Molly D. Zimring	6/ 1/52-5/31/74	Lot 11, Keaukaha Seaside Lots, Waiakea, South Hilo	2-1-14: 22	.270	U-res	230.00
3431	Richard Smart	10/ 1/52-9/30/73	Kaohe III, Section B, Hamakua	4-4-15: 02	1,762.936	A-past	600.00
3432	Palani Ranch Company, Incorporated	10/ 1/52-9/30/73	Lots 1 to 20, Kealakehe Homesteads, North Kona	7-4-08: 03	687.560	A-past	773.58
3433	Dillingham Investment Corporation	4/ 8/53-4/ 7/74	Honomalino-Hoopuloo, Mauka Tract, South Kona	8-9-01: 02	2,717.924	A-past	1,000.00
3434	Richard Smart	12/20/52-12/19/73	Keanuiomano, Puuiki & Waikoloa Iki, Waimea, South Kohala	6-5-01: 20	420.930	A-past	2,119.65
3435	Honomalino Agricultural Company, Incorporated	7/ 3/52-7/ 2/73	Kaulanamauna, South Kona	8-9-06: 15	2,095.538	A-past	425.00
3436	Richard Smart	10/ 1/52-9/30/73	Kaohe III, Section A-2, Hamakua	4-4-14: 04	101.400	A-past	85.00
L-3437	Hawaiian Trust Company, Limited	7/ 3/52-7/ 2/73	Parcels 1 & 2, Lalamilo, South Kohala	6-6-01	.082	A-r/w	12.00
3438	Richard Smart	7/ 1/53-6/30/74	Parcel 1, Por. Humuula (Keanakolu Paddocks), North Hilo	3-8-01: 09	5,290.000	A-past	16,000.00
3439	Richard Smart	7/ 1/53-6/30/74	Parcel 2, Por. Humuula (Hopuwai Paddock) North Hilo	3-8-01: 02	7,512.800	A-past	14,000.00
3440	Richard Smart	7/ 1/53-6/30/74	Parcel 3, Por. Humuula, Kaohe (Kole & Laumaia Paddocks), North Hilo	3-8-01: 07	20,377.317	A-past	18,000.00
3441	Richard H. Jose	7/ 1/53-6/30/74	Laupahoeohoe Mauka, North Hilo	3-6-06: 46	110.000	A-past	915.00
3442	C. Brewer & Company, Limited	7/ 1/53-6/30/74	Parcels A & B, Ninole Gov't. Fish Pond, Kau	9-5-19: 01	332.559	A-past	520.00
3443	C. Brewer & Company, Limited	7/ 1/53-6/30/74	Parcels 1 & 2, Kaunamano Homesteads, Kau	9-5-12: 02 & 18	477.160	A-past	930.00
3444	C. Brewer & Company, Limited	7/ 1/53-6/30/74	Wailau Gov't. Remainder, Kau	9-5-19: 16, 17 & 27	345.800	A-past	235.00
3445	Laupahoeohoe Sugar Company	12/29/52-12/28/73	Laupahoeohoe, North Hilo	3-6-01: 56	11.790	A-past	205.00
3446	Joaquin Ramos	7/ 1/53-6/30/74	Lots 92, 93 & 94, Olaa New Tract Lots, Puna	1-8-11: 25	150.000	A-past	50.00
3449	C. Brewer & Company, Limited	12/29/52-12/28/73	Parts 1 & 2, Por. Moaula-Kopu-Makaka, Makai, Kau	9-6-02	2,376.850	A-past	1,025.00
3453	Laupahoeohoe Sugar Company	10/ 1/53-9/30/74	Papaaloo, Manowaiopae & Kihalani Homestead Tracts, Por. Laupahoeohoe, North Hilo	3-6-03		A-r/w	12.00
*3454	Hilo Electric Light Company, Limited	10/ 1/53-9/30/74	Honokaia, Kapolena, Kamoku & Puukapu, Waimea, South Kohala	4-6-11 4-7-07	32.810	A-r/w	100.00
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	5-5-11: 01 & 47	24.520	A-r/w	72.12
*3456	Hilo Electric Light Company, Limited	10/ 1/53-9/30/74	Waiakea, South Hilo	2-4-08	.085	U-r/w	12.00
3457	Standard Oil Company of California	10/ 1/53-9/30/74	Waiakea-Kai, South Hilo	2-1-07	.209	U-r/w	12.00
3472	Honokaa Sugar Company	4/ 9/54-4/ 8/75	Keaa-Mauka Tract, Hamakua	4-8-02 4-8-03	25.780 27.920	A-past cane	110.00 279.20
3473	Joseph L. Ventura	1/ 1/55-12/31/75	Parcel A, Piihonua, South Hilo	2-5-09: 02 & 04	53.700 195.050	A-past	389.20 200.00
3475	George R. & Clifford A. Freitas	1/ 1/55-12/31/75	Por. Lot 22-D-1, Pohakuloa Tract, North Kohala	5-8-03: 07	83.210	A-past	1,400.00
3480	Laupahoeohoe Sugar Company	4/ 9/54-4/ 8/75	Por. Pali & Gulch, Papaaloo Homesteads, North Hilo	3-5-02: 06	6.000	A-wtr	31.00
3481	The Flintkote Company	6/ 1/54-5/31/75	Waiakea Fish Pond, South Hilo	2-2-31	24.610	C-wtr	1.00
3482	Clarence J. Branco	4/ 9/54-4/ 8/75	Lots 812-A, 912-A & 913, Waiakea Homesteads, South Hilo	2-4-05: 01	77.865	A-past	1,081.62

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
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, South Hilo	2-2-58: 12	.601	U-ind	300.00
3506	Charles L. Murray	9/10/54-9/ 9/75	Lot A, Corner of Kamehameha Ave. & Kalanikoa St., Waiakea, South Hilo	2-2-32: Por. 19	.471	U-bus	838.00
3507	Anthony M. Phillips, dba Phillips U-Drive	11/10/54-11/ 9/75	Lot B, Kamehameha Ave. betwn. Kalanikoa & Kanoelehua St., Waiakea, South Hilo	2-2-32: 19	.339	U-bus	400.00
3508	Anna L. Perry-Fiske	11/10/54-11/ 9/75	Lot 11, Lalamilo House Lots, South Kohala	6-5-01: 32	.279	A-past	12.00
3509	William K. Thompson	11/10/54-11/ 9/75	Por. Pahoeheo 1-4, Maunaoui, Haleili, Haukalua 1-2, Alae 1-2, Pahoeheo 1, South Kona	8-7-01	1,067.500	A-past	150.00
3521	Shell Oil Company, Union Oil Company of California & Phillips Petroleum Company	6/ 7/55-6/ 6/76	Waiakea-Kai, Hilo	2-1-07	.116	U-r/w	12.00
3530	Oda Orchids, Incorporated	11/ 8/55-11/ 7/76	Waiakea, South Hilo	2-2-32: 82	2.532	A-agr	120.00
3532	Benso Yamanouchi	11/ 8/55-11/ 7/76	Lot 12, Kaumana House Lots, South Hilo	2-5-05: 74	.160	U-agr	12.00
3533	Honolulu Roofing Company	11/ 8/55-11/ 7/76	Lot 9, Keaukaha Seaside Lots, Waiakea, South Hilo	2-1-14: 19	.420	U-res	180.00
3534	Thomas R. Araujo	11/ 8/55-11/ 7/76	Piihonua, South Hilo	2-3-25: 47	2.670	U-past	24.00
3566	Kau Sugar Company, Inc. & C. Brewer & Co., Ltd.	10/25/56-10/24/77	Por. Section "A", Kaalaala-Makakupu	9-6-11: 02, 03, 04, 05 & 12	68.030 .480 1,353.690	A-cane waste past	680.30 300.00
3567	E.L. Wung's Ranch, Limited	10/25/66-10/24/77	Lots 338 & 339, Olaa Reservation Lots, Puna	1-8-11: 12	1,422.200 100.000	A-past	980.30 100.00
3569	Oda Orchids, Incorporated	10/25/56-10/24/77	Lots 2, 4, 6, 8, 10 & 12, Blk. 30, Waiakea House Lots, South Hilo	2-2-37: 41 & 46	2.899	U-agr	100.00
3570	Kohala Sugar Company	10/ 1/57-12/31/73	Opihipau-Hukiaa, Kalei & Hualua	5-5-03 5-5-06 5-5-07 5-6-01	1,100.110 132.506 11.000 62.025	A-cane con past waste	8,386.14 1,010.09 55.00 62.03
3573	Hawaii Broadcasting System, Limited	11/ 8/58-11/ 7/79	Humuula, North Hilo	3-8-01: 11	1,305.641 2.038	U-bus	9,513.26 100.00
3574	James W. Glover, Limited	8/11/59-8/10/80	Waiakea, South Hilo	2-1-12: 04, 06, 10 & 18, Por. 05 & 07	74.314	U-ind	2,594.62
3575	Honpa Hongwanji Mission of Hawaii	8/11/58-8/10/79	Lots 7 & 8, Waiakea Cane Lots, South Hilo	2-4-01: 15 & Por. 96	38.580	A-past	139.86
3576	Union Oil Company of California	9/10/58-9/ 9/79	Waiakea, South Hilo	2-1-07: Por. 15 & 19	.125	U-r/w	120.00
S-3583	Robert M. Yamada	11/ 5/59-11/ 4/2004	Lots 4, 6, 7, 8, Blk. 39, Lots 5 & 7, Blk. 40, Waiakea Lots, South Hilo	2-2-37	2.566	U-bus	900.00
S-3584	Pepeekeo Sugar Company	2/ 1/60-12/31/89	Kamaee-Wailua & Puuoha, North Hilo	3-1-04: 01 & 02	330.120 19.360 199.270 548.750	A-cane r/w waste	2,971.08 19.36 19.93 3,010.37
S-3585	Pepeekeo Sugar Company	2/ 1/60-12/31/89	Honomu-Hukua, Kaakepa & Kaupakuea, South Hilo	2-8-11	768.688 26.406 21.340 91.500 907.934	A-cane r/w past waste	6,918.20 26.41 21.34 9.15 6,975.10
S-3586	Mauna Kea Sugar Company, Incorporated	2/ 1/60-12/31/89	Kawainui, South Hilo	2-7-07: 05	155.258 2.391 33.351 191.000	A-cane r/w waste	1,397.32 2.39 3.34 1,403.05
S-3587	Honokaa Sugar Company, Limited	2/ 1/60-12/31/89	Kaunamano, Hamakua	4-4-01: 01	21.000 11.100 32.100	A-cane waste	210.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3589	F. Newell Bohnett	8/15/60-8/14/2000	Puuwaawaa, North Kona	7-1-01 7-1-02 7-1-03 7-1-04 7-1-05	105,796.580	A-past	30,000.00
S-3590	Texaco, Incorporated	3/ 1/60-2/28/85	Waiakea, South Hilo	2-1-09: 42	2.660	U-ind	8,500.00
S-3591	Isamu Kanekuni & George T. Inouye dba Veterans' Produce Exchange	1/16/61-1/15/2016	Lot 42, Kanoelehua Industrial Lots, South Hilo	2-2-49: 17	.354	U-ind	560.00
S-3592	Hiroaki Kono, dba Hilo Transportation Company	1/16/61-1/15/2016	Lots 6 & 15, Waiakea Business & Industrial Lots, South Hilo	2-2-32: 78	.778	U-ind	1,220.00
S-3593	Automotive Supply Center, Limited	1/16/61-1/15/2016	Lot 38, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 12	.367	U-ind	576.00
S-3594	James Broto Toledo dba Broto's Body & Fender	1/16/61-1/15/2016	Lot 15, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 83	.224	U-ind	400.00
S-3595	Harry Hiroo Nishimura dba Harry's Refrigeration Service	1/16/61-1/15/2016	Lot 18, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 86	.258	U-ind	440.00
S-3596	Isao Morimoto, dba Mori's Paint Shop	1/16/61-1/15/2016	Lot 37, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 11	.381	U-ind	605.00
S-3597	William Aiona, Jr., dba Family Liquor Store	1/16/61-1/15/2016	Lot C-1, Kamehameha Business Lots, Waiakea, South Hilo	2-2-32: 64	.339	U-bus	1,110.00
S-3598	Honolulu Roofing Company, Limited	1/16/61-1/15/2016	Lot 17, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 85	.258	U-ind	440.00
S-3599	Kaneko Jelly, Limited	1/16/61-1/15/2016	Lot 22, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 90	.775	U-ind	1,015.00
S-3600	Durant Realty Company, Limited	1/16/61-1/15/2016	Lot 29, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 97	.344	U-ind	585.00
S-3601	Allan D. Starr	1/16/61-1/15/2016	Lot 33, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 07	.775	U-ind	828.00
S-3602	Hawaii Pest Control Incorporated	1/16/61-1/15/2016	Lot 40, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 14	.364	U-ind	570.00
S-3603	Harders Company, Limited	1/16/61-1/15/2016	Lot 41, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 16	.293	U-ind	460.00
S-3604	Walter Kiyoshi Hamai, dba W.K. Hamai Repair Shop	1/16/61-1/15/2016	Lot 46, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 02	.258	U-ind	440.00
S-3606	Hilo Kala, Incorporated	1/16/61-1/15/2016	Lot 28, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 96	.344	U-ind	575.00
S-3609	Hawaii Transportation Company, Limited	1/16/61-1/15/2016	Parcel II, Waiakea Business & Industrial Lots, South Hilo	2-2-32: 71	2.363	U-ind	3,085.00
S-3611	Hawaii Planning Mill, Limited	1/16/61-1/15/2016	Parcel IV, Waiakea Business & Industrial Lots, South Hilo	2-2-32: 21	2.334	U-ind	3,660.00
S-3612	Hamakua Mill Company	2/ 1/61-12/31/2008	Hoea-Kaao, Makai Tract, Hamakua	4-2-01 4-2-07	747.320 35.360 119.570 175.880 1,078.130	A-cane r/w past waste	6,725.88 35.36 298.93 17.59 7,077.76
S-3613	Laupahoehoe Sugar Company	2/ 1/61-12/31/2008	Humuula & Kahoahuna, North Hilo	3-9-01 3-9-02	818.300 6.072 16.000 338.121 1,178.493	A-cane r/w past waste	7,364.70 6.07 40.00 33.81 7,444.58
S-3614	Laupahoehoe Sugar Company	2/ 1/61-12/31/2008	Niupea-Kealakaha, Kaala Tract	4-1-01 4-1-02 4-1-03 4-1-04	493.076 10.930 156.822 660.828	A-cane r/w waste	4,437.68 10.93 15.68 4,464.29
S-3615	Laupahoehoe Sugar Company	2/ 1/61-12/31/2008	Ookala-Manowaialee, North Hilo & Hamakua	3-9-01 3-9-02	1,081.560 20.852 266.031 1,368.443	A-cane r/w waste	9,734.04 20.85 26.60 9,781.49
S-3616	Laupahoehoe Sugar Company	2/ 1/61-12/31/2008	Kaiaakea Makai Remainder, North Hilo	3-4-03	64.380 15.703 80.083	A-cane waste	579.42 1.57 580.99

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3617	Honokaa Sugar Company	2/ 1/61- 12/31/2008	Kaao-Paalaee Tract, Hamakua	4-5-01	340.700 200 93.840 434,740	A-cane r/w waste U-ind	3,066.30 20 9.38 3,075.88 1,015.00
S-3618	Body and Fender Repair, Incorporated	2/ 6/61- 2/ 5/2016	Lot 34, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 09	.775	U-ind	1,015.00
S-3619	Mauna Kea Electric, Incorporated	2/ 6/61- 2/ 5/2016	Lot 29, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 39	.320	U-ind	510.00
S-3620	Shoichi Muramoto, dba Mura's Repair Shop	2/ 6/61- 2/ 5/2016	Lot 44, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 04	.604	U-ind	1,165.00
S-3621	Seair Corporation	2/24/61- 2/23/2016	Lot 32, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 06	.895	U-ind	1,170.00
S-3622	Satoru Amano dba Amano Fish Cake Factory	3/20/61- 3/19/2016	Lot 27, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 95	.320	U-ind	545.00
S-3624	Hawaiian Equipment Company, Limited	3/ 6/61- 3/ 5/2016	Por. Waiakea, South Hilo	2-1-12: 26	4.499	U-ind	5,880.00
S-3631	A & A Hawaii, Incorporated	3/20/61- 3/19/2016	Lot 11, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 79	.241	U-ind	410.00
S-3632	Hilo Draying Company, Limited	3/20/61- 3/19/2016	Lot 3, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 74	1.564	U-ind	2,000.00
S-3653	Heiji Muneno dba Cabby's Union Service	3/20/61- 3/19/2016	Lot 13, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 81	.256	U-ind	540.00
S-3654	Kohala Sugar Company	11/ 8/61- 11/ 7/91	Por. bottom of Pololu Valley, North Kohala	5-1-06	141.000	A-cane	325.00
S-3656	Richard Smart	8/11/61- 8/10/81	Por. Puukole-Koaeae Mauka Tract, North Kohala	5-7-01	168.590	A-past	2,550.00
S-3657	Richard Smart	8/11/61- 8/10/81	Pohakuloa Mauka Tract, Pohakuloa & Kalaha 1st, North Kohala	5-8-02: 03	191.350	A-past	750.00
S-3658	Richard Smart	8/11/61- 8/10/81	Por. Kapaa Makai Lots, North Kohala	5-6-01	53.553	A-past	83.68
S-3659	Arthur Botelho	8/11/61- 8/10/81	Por. Kilau Gulch, Manowaiopae Homesteads, North Hilo	3-6-01: 03	27.300	A-past	61.00
S-3660	Katsumi Sakai dba K. Sakai Painting Contractor	3/20/61- 3/19/2016	Lot 9, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 77	.459	U-ind	468.00
S-3662	Mauna Kea Sugar Limited	8/16/61- 8/15/91	Piihonua, South Hilo	2-3-28 2-3-29 2-3-31 2-3-32 2-5-09 2-5-10 2-6-09	1,175.740 180.870 14.330 603.680 1,974.620	A-cane con past waste U-bus	10,581.66 182.87 35.83 60.37 10,860.73
S-3669	Seven Seas, Incorporated	3/20/61- 3/19/2016	Lot C, Hoolulu Business Lots, Waiakea, South Hilo	2-2-33: 18	.689	U-bus	1,110.00
S-3670	Machida, Incorporated	3/20/61- 3/19/2016	Lot 30, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 98	.344	U-ind	585.00
S-3688	Richard S. Miyashiro dba Cafe 100	3/20/61- 1/14/2017	Por. Waiakea, South Hilo	2-2-29: 23	.574	U-bus	1,800.00
*S-3696	Hawaiian Telephone Company	1/26/62- 1/25/83	Puumaile Home Site, Waiuli, Waiakea, South Hilo	2-1-13: 08	1.069	U-r/w	30.00
*S-3697	Hawaiian Telephone Company	1/26/62- 1/25/83	Humuula, North Hilo	3-8-01	2.868	A-r/w	20.00
S-3698	Bank of Hawaii	1/26/62- 1/25/2017	Lot 7, Resubdivision Blk. 47, Waiakea, South Hilo	2-2-49: 22	.687	U-bus	2,064.00
S-3716	Masaru Shindo, dba Hilo Soda Works	10/29/62- 10/28/2017	Lot 1-A, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 15	.556	U-bus	851.40
S-3718	Hilo Auto Electric & Carburetor Service	6/28/63- 6/27/2018	Lot 12, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 80	.258	U-bus	587.00
S-3719	Hawaii Planters, Incorporated	1/28/63- 1/27/83	Hulunani, Kaunaloa & Ki, Puna (Parts A & B)	1-2-02: 06 & 07	648.620	A-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	1-8-10	227.730	A-past	575.00
S-3722	Hawaii Baptist Convention	11/30/62- 11/29/2017	Por. Lot 5-C, Waiakea Cane Lots, South Hilo	2-4-01: 112	1.000	A-ele	780.00
S-3723	S.K. Oda, Limited	11/30/62- 11/29/2017	Por. Waiakea (West Kalanikoa St. betwn. Kuawa & Kawelolani Sts., South Hilo	2-2-32: 11	1.934	U-ind	2,781.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3729	Hubert S. Andrews dba Andrews Trucking Service	8/23/63-8/22/2018	Lot 10, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 78	.241	U-ind	572.00
*S-3731	County of Hawaii, Board of Water Supply	7/ 1/64- 6/30/2029	Mountain View Water System, Land Site #1, Puna	1-8-08	.181	C-cty	Gratis
*S-3732	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63-3/28/2013	Kaumana (Kaumana Cave), Hilo	2-5-06:03 & 04		A-cty	Gratis
*S-3738	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63-3/28/2013	Pahoa (Pahoa Cave), Puna	1-5-08: 01 1-5-09: 09 1-5-10: 03	.041	A-cty	Gratis
*S-3739	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63-3/28/2013	Malana (Mackenzie Cave), Puna	1-3-07: 06		C-cty	Gratis
S-3742	Edward R., James R., Yasuo & Yoshinobu Kuwaye dba Edward R. Kuwaye & Company	11/12/63-11/11/2018	Lots 8 to 13, inclusive, Waiakea Industrial Lots, South Hilo	2-2-58: 14	2.165	U-ind	4,452.00
*S-3744	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63-4/25/2013	Puuanahulu Cave, North Kona	7-1-03: Por. 01		C-cty	Gratis
*S-3745	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63-4/25/2013	Pigeon Cave, Puuanahulu	7-1-04: Por. 01		C-cty	Gratis
S-3570	Jiro Tanaka dba Tanaka Electrical Service	4/26/63-4/25/2018	Lot 8, Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 76	.274	U-bus	622.00
*S-3751	County of Hawaii, Hilo Hospital Complex & Allied Facilities	6/ 7/63-6/ 6/2028	Piihonua, South Hilo	2-3-27	20.401	U-cty	1.00
*S-3752	United States of America (U.S. Navy)	12/16/63-12/15/2028	Kamoa, Kau	9-3-01	21.296	A-fed	1.00
*S-3834	County of Hawaii, Board of Water Supply	4/24/64-4/23/2029	Under & across Por. Hamakua Water Reserve, Ahualoa-Kaapahu-Pohakea Water System, Hamakua	4-5-11: 01	.643	C-cty	1.00
S-3836	Oda Orchids, Incorporated	6/16/64-6/15/2019	Waiakea, North corner of Kilauea St. & Volcano Rd., South Hilo	2-2-48: 01	7.855	U-bus	565.56
S-3837	Hongo Nursery, Incorporated	6/16/64-6/15/2019	Lot 18, Blk. 601, Waiakea Homesteads, South Hilo	2-2-44: 04	10.000	U-bus	483.00
*S-3839	United States of America (Army)	4/10/64-4/ 9/74	Tract A, Hilo Breakwater Project, South Hilo		2.600	C-fed	1.00
*S-3844	University of Hawaii	7/24/64-7/23/2029	Hamakua experiment farm, Kaohe	4-3-10	185.000	A-agr	Gratis
*S-3849	United States of America (Army)	8/17/64-8/16/2029	Pohakuloa Training Area	3-8-01: 13	22,971.000	C/fed	1.00
*S-3853	United States of America (Army)	8/21/64-8/20/2029	Pohakuloa water license easements	4-4-16: Por. 01	5.510	C-fed	1.00
*S-3855	County of Hawaii	10/11/63-10/10/2028	Kukuau 2nd & Waiakea, South Hilo	2-2-06 2-2-11 2-2-12 2-2-31 2-2-32 2-2-48	2.092	U-cty	Gratis
*S-3865	County of Hawaii, Board of Water Supply	8/28/64-8/27/2029	Utility easements at Panaewa, South Hilo		.182	U-cty	1.00
S-3867	Manuel Souza	10/28/64-10/27/84	Lot 1-A, Paauilo-Pohakea Reserve Lots	4-3-15: 01	4.540	A-past	45.00
S-3868	Kahua Ranch, Limited	10/28/64-10/27/84	Makiloa Gov't. Tract, North Kohala	5-9-02: 06	138.000	A-past	605.00
S-3869	Koei Ishimine	12/26/64-12/25/84	Lot 8, Puuepa-Kokoiki Homesteads, North Kohala	5-5-04: 05	7.980	A-cane	120.00
S-3870	William E. Ontai	10/28/64-10/27/94	Lots 2, 3, 5, Papa Homesteads, South Kona	8-8-04: 04, 06 & 07	21.180	A-agr	180.00
S-3872	Waimanu, Incorporated	1/23/65-1/22/95	North Kohala	5-2-08: Por. 03	3.700	U-rec	900.00
S-3875	Feed-Well, Incorporated	8/12/66-8/11/2021	Kahema Street, Hilo	2-2-50	.689	U-ind	1,800.00
S-3886	Palekoki Ranch, Incorporated	1/20/65-1/19/85	Por. Lalamilo, Ouli & Waiaka I, Waimea, South Kohala	6-6-01	9,154.000	A-past	3,900.00

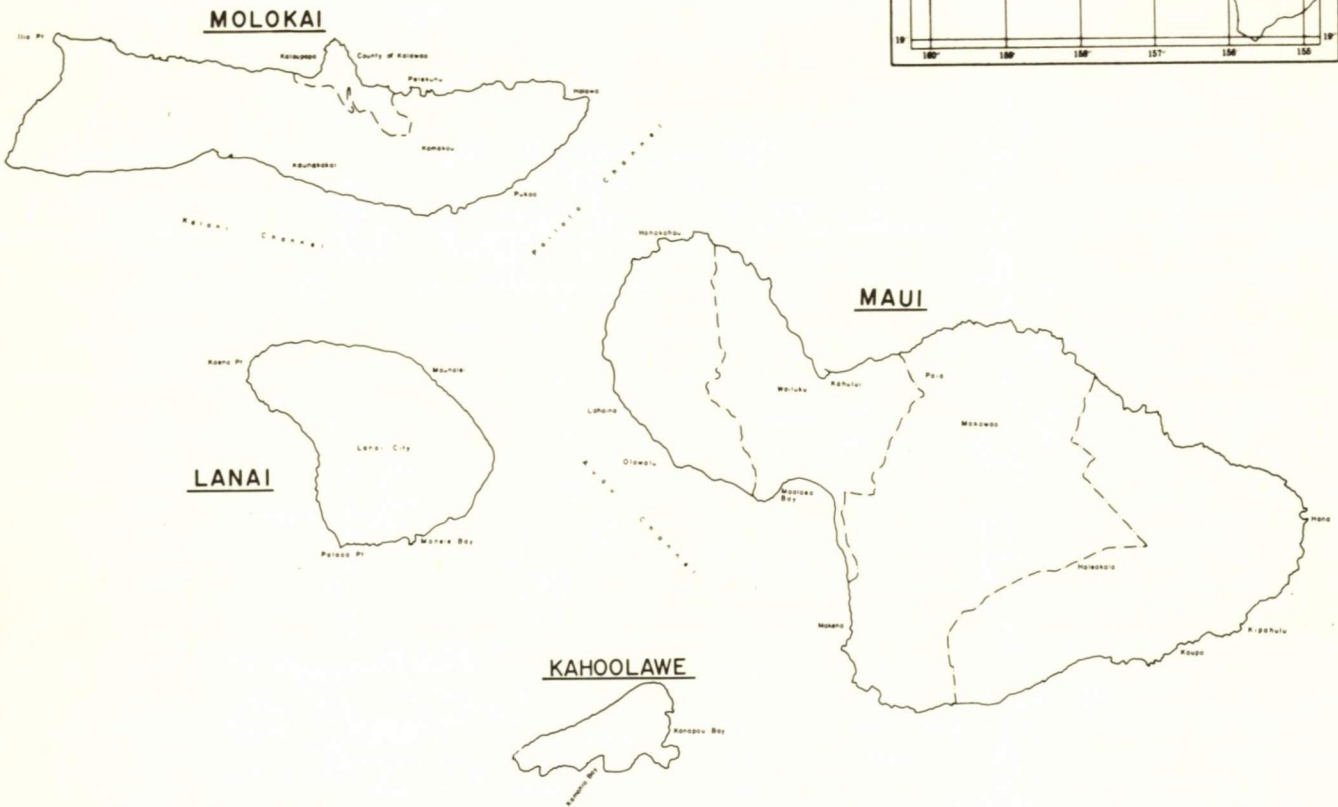
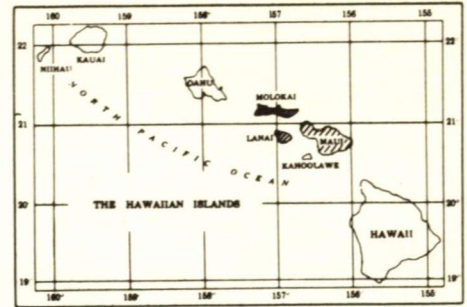
Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-3887	Hilo Electric Light Company, Limited	1/20/65-1/19/95	Por. H.H. L., Humuula, North Hilo	3-8-01: 07	6.583	C-r/w	180.00
*S-3888	Hawaiian Telephone Company	1/20/65-1/19/2030	Lots 15 & 16, Blk. 39, Waiakea House Lots, South Hilo	2-2-37: 63	.895	U-ind	2,130.00
S-3908	Orchid Isle Hotels, Incorporated	4/12/65-4/11/2030	Lot 13, Ocean View Lots, Waiakea, South Hilo	2-1-05	2.319	U-bus	15,000.00
S-3909	Alfred A. Silva	4/12/65-4/11/85	Lot 15-B, Kaaauhuhu Homesteads, North Kohala	5-5-01: 45	6.410	A-agr	96.00
*S-3916	County of Hawaii, Board of Water Supply	10/30/64-10/29/2029	Panaewa, Waiakea, South Hilo	2-2-48	.204	U-cty	Gratis
*S-3925	Hilo Electric Light Company, Limited	8/27/65-8/26/2030	Lot 16, Kanoehue Industrial Lots, Waiakea, South Hilo	2-2-58	3.718	U-r/w	7,566.00
*S-3927	Hilo Electric Light Company, Limited	9/24/65-9/23/95	Por. Kaohe, Hamakua	4-4-16	.881	U-bus	120.00
S-3930	William Thompson	10/18/65-10/17/85	Por. Kaohe, Hamakua	8-2-07 8-2-08	12.911	A-past	75.00
S-3931	Rudy & Ann Hirota	10/18/65-10/17/85	Lot 1317, Waiakea Homesteads, South Hilo	2-4-06: 13	65.550	A-past	195.00
S-3932	Paaauhau Sugar Company	10/18/65-10/17/85	Por. Kalopa Homesteads, Hamakua	4-4-03: 25	.730	A-agr	25.00
S-3933	Roman Catholic Bishop of Honolulu	10/18/65-10/17/2030	Lots 116 & 117, Puako Beach Lots, Lalamilo, Waimea, South Kohala	6-9-05: 19	.643	U-ele	334.00
S-3934	Hubert M. Spivey	10/18/65-10/17/85	Por. Waiakea Pasture lands	2-4-04: 12 & 13 Por. 21 & 22	118.924	A-past	360.00
S-3935	Roy S. & Martha S. Nagakura	10/18/65-10/17/2020	Lot 13, Waiakea House Lots, South Hilo	2-2-37: 66	.304	U-bus	420.00
S-3938	Frank De Luz, Jr. & Virginia De Luz	11/ 8/65-11/ 7/85	Por. Kapualei Gov't. Remainder, Hamakua	4-3-06 4-3-14: 01	33.620	A-past	685.00
S-3948	Hamakua Mill Company	12/20/65-12/31/2008	Por. Hauola, Hamakua	4-3-03	155.290 4.730 160.020	A-cane waste	2,330.00
S-3949	Hawaiian Greenhouse, Incorporated	12/20/65-12/19/2000	Keonepoko Homesteads, Pahoa	1-5-07: 17	19.401	A-agr	639.10
S-3950	Kulana Foods, Limited	12/20/65-12/19/2000	Lot 820, Waiakea Homesteads, South Hilo	2-4-03: 10 & 11	41.200	A-past	180.00
S-3954	Tokio Miyashiro	11/24/65-11/23/2020	Lot 16, Panaewa Farm Lots, South Hilo	2-4-49: 30	10.097	A-agr	485.00
S-3961	Melsan, Limited	4/15/66-4/14/2031	Por. Waiakea Peninsula, South Hilo	2-1-03 2-1-04 2-1-05	5.000	U-bus	32,670.00
S-3962	Eaton Magoon, Jr.	4/15/66-4/14/96	Lots 1 & 2, Haukalua Homesteads 2nd, South Kona	8-7-05: 03 & 05	14.190	A-agr	165.00
*S-3966	Transportation Department, U.S. Coast Guard	4/15/66-4/14/2031	Hoopuloo, South Kona	8-9-04	1.427	C-fed	Gratis
S-3999	Divaco Cooperative	8/16/66-8/15/2021	Lots 8 & 9, Hilo Industrial Development, Pohaku St. Section, Waiakea, South Hilo	2-2-58: 29 & 30	.918	U-ind	2,184.00
S-4000	Kohala Sugar Company	8/19/66-8/18/2031	Puuepa 2 & Kokoiki, North Kohala	5-5-05: 01	.192	A-r/w	10.00
S-4001	Jack Brysson Greenwell, Henry Alan Greenwell & Norman Leonard Greenwell	8/16/66-8/15/91	Onouli 2nd Gov't. Tract, South Kona	8-1-06	423.000	A-past	625.00
S-4002	Hamakua Mill Company	8/16/66-12/31/2008	Parcel A, Pohakuhaku-Kamau Gov't. Rem.; Parcels B, C, D, E & F, Opihilala-Kapualei Gov't. Rem.; Gov't. Remainder Kamau II Nakai Tract; Kaohe I; Lot 21-A, Pohakea Homestead, Makai Section, Opihilala & Paauilo, Hamakua	4-3-04 4-3-05 4-3-06 4-3-07 4-3-08 4-3-09 4-3-11	170.870	A-cane	3,080.00
S-4004	Christ Lutheran Church	8/16/66-8/15/2031	Por. Waiakea, South Hilo	2-4-01: 120	3.101	U-ele	1,214.00
S-4005	John J. Andrade & Josephine Andrade	8/16/66-8/15/91	Lot 11, Ahualoa Reserve Remnants, Ahualoa Homesteads	4-5-11: 06	13.496	A-past	91.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4006	Merrill & Mary Jane Toledo	8/16/66-8/15/86	Por. Waipio Valley, Hamakua	4-9-11: 02	11.600	A-agr	200.00
*S-4012	United States of America	1/ 3/66-1/ 2/2013	Upper Waiakea, South Hilo, & Olaa, Puna	1-8-12 2-4-08	1,144.920	C-fed	Gratis
S-4018	First United Protestant Church of Hilo	10/ 6/66-10/ 5/2031	Lot 1, Por. Piihonua, South Hilo	2-3-27	3.572	U-ele	1,396.00
S-4019	Seven Seas, Incorporated	10/ 6/66-3/19/2016	Lots A & B, Hoolulu Business Lots, Waiakea, South Hilo	2-2-33	1.183	U-bus	2,602.00
*S-4020	United States of America (Army)	8/16/66-8/15/76	Makuu, Puna	1-5-10: 04	33.058	A-fed	Gratis
S-4024	George Freitas Dairy, Incorporated	11/29/66-11/29/91	Puuepa 2-Kokoiki Tract, North Kohala	5-5-05	74.340	A-past	1,200.00
S-4025	Palani Ranch Company, Incorporated	11/29/66-11/28/91	Honuaula Tract No. 2, Honuaula, North Kona	7-4-01: 03	1,608.500	A-past	2,800.00
S-4026	Haunani Enterprise Corporation	11/29/66-11/28/2001	Lot 17, Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 01	10.579	A-agr	510.00
*S-4029	County of Hawaii	4/13/67-4/12/2032	Kealakehe, North Kona	7-4-08: 16	30.319	C-cty	Gratis
S-4097	Shell Oil Company	3/31/67-3/30/2032	Por. Waiakea, South Hilo	2-1-09: 07 & 31	.130	U-r/w	267.00
S-4098	Yoshito Iwamoto	3/31/67-3/30/2032	Por. Waiohinu Gov't. Remnants, Kau	9-5-02: 40	.437	U-r/w	10.00
S-4099	Richard Smart	3/31/67-3/30/2032	Across Por. of Kamuela Airport	6-7-01	.006	U-r/w	1.00
S-4102	Kilauea Council, Boy Scouts of America	4/15/66-4/14/2021	Honokaia, Hamakua	4-6-11: 40	238.000	C-ele	150.00
S-4105	James H. & Mabel M. Davis	9/ 6/67-9/ 5/2032	Puukapu, Waimea	6-4-01	.005	A-r/w	5.00
S-4107	Honokaa Sugar Company	9/ 6/67-12/31/2008	Lauka-Kulihai, Hamakua	4-6-01	78.460 35.810 3.710 117.980	A-cane waste r/w	1,020.00
S-4108	Honokaa Sugar Company	9/ 6/67-12/31/2008	Hanapai, Hamakua	4-7-04	34.700 8.850 43.550	A-cane waste	451.00
S-4109	Honokaa Sugar Company	9/ 6/67-12/31/2008	Hamakua	4-6-02	143.140 14.130 3.600 160.870	A-cane waste r/w	1,861.00
*S-4130	Hawaiian Telephone Company	1/ 1/68-12/31/2023	North Hilo	3-9-02	1.047	U-ind	36.00
S-4137	Frank L. Moniz, III	1/12/68-1/11/88	Kaauhuhu, North Kohala	5-5-01: 15	5.640	A-agr	100.00
S-4138	Hale Nui Flowers, Incorporated	1/12/68-1/11/2023	Waiakea, South Hilo	2-4-49: 25	10.008	A-agr	552.00
*S-4139	Honolulu Gas Company, Limited	4/14/67-4/13/97	Hilo	2-2-27	.230	U-ind	510.00
S-4141	Signal Properties, Incorporated	2/23/68-2/22/93	South Kohala	6-9-01	775.083	A-agr	10,000.00
*S-4191	University of Hawaii	1/ 1/68-12/31/2033	Kaohe, Hamakua	4-4-15: 09	13,321.054	C-state	Gratis
*S-4196	University of Hawaii	4/26/68-4/25/2033	South Kohala	6-4-03	196.414	A-agr	1.00
S-4201	Norona, Incorporated	9/26/68-9/25/2023	Waiakea, South Hilo	2-2-58: 33	.474	U-ind	1,600.00
S-4202	Hiroshi Matsuyama	9/26/68-9/25/93	Keopu No. 2, North Kona	7-5-01: 22	17.490	A-past	60.00
S-4203	Richard Smart	1/ 1/68-12/31/2033	South Kohala	6-3-Por. 2, 4, & 6	.150	C-wtr	720.00
S-4205	Shinobu Oshima	9/26/68-9/25/2023	Waiakea, South Hilo	2-4-08	60.000	A-agr	3,312.00
S-4206	Sun Sun Lau	9/26/68-9/25/2033	Waiakea, South Hilo	2-2-18	.059	U-r/w	24.00
S-4207	Hugo & Shirley Von Platen Luder	9/26/68-2/28/2021	North Kona	7-5-09: 64	.013	U-r/w	867.00
S-4224	Richard Smart	2/ 7/69-2/ 6/94	North Kohala	5-8-02	23.800	A-past	96.00
S-4225	Mitsuo & Yaeko Kitagawa	2/ 7/69-2/ 6/2024	Waiakea, South Hilo	2-4-49: 11	10.021	A-agr	576.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4226	Joseph Chang, Sr.	2/ 7/69- 2/ 6/89	Kokoiki, North Kohala	5-5-04: 51 & 52	4.934	A-agr	45.00
S-4227	Island Holidays, Limited	2/ 7/69- 2/ 6/2034	Kahaluu, North Kona	7-8-13	.128	U-r/w	128.25
*S-4234	University of Hawaii	12/15/67- 12/14/2032	Olaa, Puna	2-4-08: 21	.014	C-r/w	Gratis
*S-4235	University of Hawaii	4/11/69- 4/10/2034	Humuula, North Hilo	3-8-01	.057	C-r/w	Gratis
S-4237	C. Brewer & Company, Limited	4/15/69- 4/14/84	Kaalualu, Kiolakaa, Kau	9-4-01: 15 & 16	9.579	A-agr	11,100.00
S-4238	Yeishun & Akiko Gusukuma	6/12/69- 6/11/89	Piha, North Hilo	3-2-02: 29	2.190	A-agr	180.00
S-4239	Palani Ranch Company, Incorporated	4/15/69- 4/14/94	Kealakehe, North Kona	7-4-02: 07	1,232.000	A-past	2,500.00
S-4246	Sim Wenner & Kathryn Armstrong	8/ 9/69- 8/ 8/94	Moeauoa I Gov't. Remainder, North Kona	7-5-01: 19	6.890	A-past	55.00
S-4247	Kahua Ranch, Limited	7/11/69- 7/10/94	Pahinahina-Kiiokalani Tract, Section 1, North Kohala	5-9-01: Por. 04 5-9-03: Por. 01 & 02 5-9-04: 08 & Por. 01, 07 & 11	5,865.000	A-past	3,930.00
S-4248	Margaret Cobey Black	7/11/69- 7/10/99	Kokoiki, North Kohala	5-5-05: 19	.652	A-r/w	60.00
S-4249	Bank of Hawaii	7/11/69- 7/10/2034	Honuaula, North Kona	7-5-07: Por. 58	.047	U-r/w	11.11
S-4251	Woodrow Miller	9/12/69- 9/11/94	Lot 14, Puuanahulu Homestead, North Kona	7-1-05: 05	8.199	A-agr	620.00
S-4252	Hilo Bay Hotel, Incorporated	8/14/69- 3/14/2015	Lot B, Banyan Dr., Waiakea Peninsula, Hilo	2-1-05	.215	U-bus	590.00
S-4253	Inter-Island Resorts, Limited	8/14/69- 3/14/2015	Lot A, Banyan Dr., South Hilo	2-1-05	1.054	U-bus	3,300.00
S-4260	Kau Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69- 9/28/2004	Hionaa & Kaalaiki, Kau	9-7-01	1,791.489	A-cane	7,150.00
S-4261	Kau Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69- 9/28/2004	Kapapala & Kaalaala, Kau	9-7-01: 01	539.562	A-cane	2,150.00
S-4262	Kau Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69- 9/28/94	Waiohinu, Kau	9-5-05: 01 & 02 & 03 8-5-03: 46	378.780	A-cane	4,972.00
S-4263	Kau Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69- 9/28/94	Kapapala, Kau	9-8-01: 06	291.130	A-cane	4,743.00
S-4264	Haruyuki & Hatsue Tao	9/29/69- 9/28/2024	Camp Site 8-A, Waiakea, South Hilo	2-4-07: 27	.096	U-r/w	2.67
S-4279	Koichi Soga & Ryoko Soga	1/20/70- 1/19/95	Parcel A, Por. Nanawale For. Res., Kaniahiku, Puna	1-4-34	3.008	A-agr	160.00
S-4280	Kinji & Tsuneyo Uyeda	1/20/70- 1/19/95	Parcel B & Rd. easement; Por. Nanawale For. Res., & Parcel 3, Kaniahiku, Puna	1-4-34	2.172	A-agr	100.00
S-4281	Richard Smart	1/20/70- 1/19/95	Parcel A & B, Puukole-Paoo Tract, North Kohala	5-7-01: 04 & 10	2,464.290	A-past	4,500.00
S-4282	Kau Sugar Company, Incorporated & C. Brewer Company, Limited	1/20/70- 1/19/95	Hionaa-Kaalaiki Tract, Kau	9-5-15: 03	1,669.000 80.000 448.290	A-cane con waste	27,104.00
S-4283	Kapalama Commercial Center	1/20/70- 1/19/2010	Lot 13, Hilo Ind. Dev., Pohaku St., Section 1, Waiakea, South Hilo	2-2-58: 25	.439	U-ind	1,600.00
S-4284	Kapalama Commercial Center	1/20/70- 1/19/2025	Lot 8, Hilo Ind. Dev., Leilani St., Waiakea, South Hilo	2-2-37	.826	U-ind	4,860.00
S-4285	Honokaa Sugar Company	1/20/70- 12/31/2008	Parcel A & B, Honokaia Makai Tract, Hamakua	4-6-03 4-6-04	477.100 23.430 165.919	A-cane r/w waste	9,050.00
S-4286	Koshi Miyasaki	1/20/70- 1/19/85	Keanakolu Orchard-Arboretum, Humuula, North Hilo	3-7-01	666.449 39.308	A-agr	1,105.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4287	Antone Texeira & Helen Texeira	1/20/70-1/19/2025	Easement-Pohakuhaku & Kemau, Hamakua	4-3-06	.330	A-r/w	60.00
*S-4288	Honolulu Gas Company, Limited	5/ 7/69-5/ 6/2024	Kealakehe, North Kona	7-4-08: Por. 16 & 17	.354	C-r/w	430.00
S-4299	Ah Chun Lee	5/12/70-5/11/1995	Por. Makena & Lot 7 of Kaimu-Kiula Homestead	1-2-06	378.131	A-past	350.00
S-4300	Pohaku Enterprises, Incorporated	5/12/70-5/11/2025	Makena & Kaimu, Puna Lot 1-A of Hilo Ind. Dev.,	2-2-58: 35	1.435	U-ind	8,000.00
S-4302	Robert M. Yamada, etal. dba Yamada Transfer	5/12/70-5/11/2025	Pohaku St., Waiakea, South Hilo Por. Gov't. land of Waiakea, Lot A, Block 40, Waiakea Houselots & Gov't. Remnant, South Hilo	2-2-37	4.823	U-ind	16,985.00
S-4303	Economy Motors, Incorporated	6/11/70-6/10/2010	Lot 5, Blk. 48, Waiakea Houselots ext., Waiakea, South Hilo	2-2-58: 15	.608	U-ind	6,100.00
S-4306	Big Island Tobacco Corporation	6/30/70-6/29/2010	Lot 2, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 04	.331	U-ind	1,125.00
S-4307	Quality Sheetmetal Company, Limited	6/23/70-6/22/2010	Lot 3, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 03	.278	U-ind	980.00
S-4308	L.H. Nishimoto Plumbing Contractor, Incorporated	6/23/70-6/22/2010	Lot 4, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 02	.551	U-ind	1,350.00
S-4309	The Investment Corporation	6/23/70-6/22/2010	Lot 6, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 32	.459	U-ind	1,620.00
S-4310	Big Island Builders, Incorporated	6/30/70-6/29/2010	Lot 7, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 31	.459	U-ind	1,620.00
S-4311	Industrial Steel Corporation	6/23/70-6/22/2010	Lots 10 & 11, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 27 & 28	.877	U-ind	3,100.00
S-4312	R. Hirae Painting, Incorporated	6/30/70-6/29/2010	Lot 12, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 26	.439	U-ind	1,550.00
S-4313	H & S Construction, Corporation	6/23/70-6/22/2010	Lot 14, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 24	.255	U-ind	920.00
S-4314	H & S Construction, Corporation	6/23/70-6/22/2010	Lot 15, Hilo Ind. Dev., Pohaku St. Section, Waiakea, South Hilo	2-2-58: 23	.273	U-ind	930.00
S-4315	Hawaii Planters, Incorporated	6/23/70-6/22/1995	Kalapana-Kupahua, Puna	1-2-32: 23	219.000	A-agr	400.00
S-4316	ALFLO RONCO Development, Incorporated	6/23/70-6/22/2025	Waiakea Golf Course, South Hilo	2-1-01 2-1-02 2-1-04 2-1-05 2-1-06 2-4-33	63.248	U-bus	5,500.00
S-4317	Hisato Ogata & Tsuyako Ogata	6/30/70-6/29/2025	Easement-Waiakea	2-4-33	.045	U-r/w	10.00
S-4319	Kinoole	2/ 1/71-1/31/2046	Por. Gov't. Land at Waiakea	2-4-25: 01	1.025	U-ele	1.00
*S-4320	Hawaiian Telephone Company	1/ 1/70-12/31/2035	Halai Hill, Hilo	2-3-22: Por. 37	.321	U-r/w	73.00
S-4323	C. Brewer and Company, Limited	11/10/70-11/ 9/2035	Waiakea, South Hilo	2-1-10: 33	3.706	U-ind	15,500.00
S-4330	H.P.I., Incorporated	4/16/71-4/15/2026	Lot 4, Hilo Ind. Dev., Leilani St., Waiakea, South Hilo	2-2-37: 122	.416	U-ind	2,808.00
S-4331	JBL Hawaii, Limited	4/16/71-4/15/2026	Lot 6, Hilo Ind. Dev., Leilani St., Waiakea, South Hilo	2-2-37: 144	.516	U-ind	1,950.00
S-4332	JBL Hawaii, Limited	4/16/71-4/15/2026	Lot 7, Hilo Ind. Dev., Leilani St., Waiakea, South Hilo	2-2-37: 145	.548	U-ind	1,950.00
S-4333	Hawaiian Fruit Flavors, Incorporated	7/15/71-7/14/2011	Lot 2, Blk. 39, Waiakea Houselots, South Hilo	2-2-37: 56	.448	U-ind	3,175.00
S-4334	Hawaii United Resources, Incorporated	4/16/71-4/15/1996	Lot 10, Panaewa Farm Lots, South Hilo	2-4-49: 24	10.231	A-agr	900.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4335	Tapley P. Jordan, Jr.	4/16/71-4/15/1991	Lots 5 & 6, Olelomoana Homesteads, South Kona	8-7-13: 10	40.600	A-agr	1,150.00
S-4336	Solomon Thompson	4/16/71-4/15/1991	Lots 8, 10, 11, 12 & 13, Haukalua Homesteads	8-7-04: 05, 07, 08, 09, 10	28.150	A-past	475.00
S-4343	Trustees of HGEA Building Trust	12/27/71-12/26/2036	Lot 2, Blk. 94, Waiakea Houselots, South Hilo	2-4-56: Por. 02 & 14	1.381	U-bus	4,500.00
S-4344	Hilo Medical Corporation	12/27/71-12/26/2026	Por. of Gov't. Land at Piihonua	2-3-37	2.052	U-bus	5,000.00
*S-4351	University of Hawaii	3/10/72-3/ 9/2037	Parcel A, University of Hawaii student housing Site, Waiakea, South Hilo	2-4-01: 07	6.566	U-res	Gratis
S-4355	Honpa Hongwanji Mission of Hawaii	5/ 1/72-4/30/2027	Por. Lot 7, Waiakea Cane Lots	2-4-01: 116	4.000	U-res	2,820.00
*S-4357	Daughter's of Hawaii	8/25/72-8/24/2037	Old Palace lot, Kailua, North Kona	7-5-07: 20	1.284	U-ele	100.00
*S-4358	University of Hawaii (Board of Regents)	8/ 1/72-7/31/1982	Lalamilo Farm Lots, Waimea, South Kohala	6-6-05: 21	16.958	A-agr	1.00 (Full term)
S-4359	Allan D. Starr	8/17/72-8/16/2027	Lot 3, Hilo Ind. Dev., Leilani St. Section, Waiakea, South Hilo	2-2-37: 88	.413	U-ind	4,000.00
S-4361	Joseph C. Hunt	9/16/72-9/15/2007	Lots 8, 9 & 10, Haleohiu Homesteads, North Kona	7-3-02: 17	24.030	A-agr res	2,600.00
S-4362	Donald K. Damon	8/17/72-8/16/2027	Por. Gov't. Land of	2-5-02: 01	95.400	A-agr res	600.00
S-4363	Glenn Gayne Au	8/17/72-8/16/2027	Lot 9, Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 23	10.243	A-agr res	2,801.00
S-4364	TSI, Limited	8/17/72-8/16/2027	Lot 2, Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 17	12.683	A-agr	5,000.00
S-4365	Orchid Gardens, Incorporated	8/17/72-8/16/2027	Lot 7 & 8, Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 21 & 22	20.486	A-agr	1,320.00
S-4366	Tommy M. Matsumoto	8/17/72-8/16/2027	Lot 22, Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 06	10.008	A-agr	2,900.00
S-4370	The Orizaba Company	11/17/72-11/16/2037	Por. Gov't. Land of Waiakea, South Hilo	2-4-08: 01	5.938	A-r/w	3,900.00
	Economy Motors, Incorporated	5/16/73-5/11/2010	Lots 6 & 7, Blk. 48, Waiakea Houselots Ext., Waiakea, South Hilo	2-2-58: 17	.895	U-ind	7,000.00
	Taizan & Chieko Sugimoto	5/16/73-5/15/98	Gov't. Remnant at Kaniahiku, Puna	1-5-04: 13	3.640	A-cane	90.00
	Tapley P. Jordan, Jr.	5/16/73-5/15/98	Por. Gov't. Land of Keonepoko-Iki, Puna	1-5-09: 50	38.480	A-agr	1,350.00
	Tapley P. Jordan, Jr.	5/16/73-5/15/98	Lot 5-A, Opihikao Homesteads, Puna	1-3-03: 16	52.100	A-agr	1,300.00
	Tapley P. Jordan, Jr.	5/16/73-5/15/98	Lot 10, Papa Homesteads, Papa 1, South Kona	8-8-04: 10	7.850	A-agr	400.00
S-5000	Tsugio Sakata	3/31/67-3/30/2032	Por. Gov't. Land of Waimea, South Kohala	6-5-04	.012	U-r/w	11.00
S-5001	K. Kobata & Sons, Incorporated	3/31/67-3/30/2022	Parcel A, Waiakea, South Hilo	2-2-32	.988	U-bus	4,262.00
S-5002	Aiea Dairy, Limited	3/31/67-3/30/92	Lot 88, Kaapahu Homesteads Hamakua	4-4-13: 11	20.500	A-past	250.00
S-5003	Rudy & Ann Hirota	3/31/67-3/30/92	Lots 1417 & 1516, Waiakea Homesteads, South Hilo	2-4-06: 12 2-4-07: 37	68.670	A-past	330.00
S-5004	Sueichi & Yoshiko Kawashima	3/31/67-3/30/92	Lot 5-A, Paauilo, Hamakua	4-3-15: 10	3.040	A-agr	46.00
S-5005	Marjorie Corley	3/31/67-3/20/2002	Keonepoko-Nui, Puna	1-5-08	5.000	A-agr	65.00
S-5015	Motoshi Sako	5/19/67-5/18/2002	Por. of Gov't. Land of Olaa, Puna	1-7-01	.466	U-bus	485.00
S-5017	Mary K. Phillips	5/19/67-5/18/2032	Por. Lalamilo, Waimea South Kohala	6-6-04	.033	U-r/w	22.00
S-5018	Nalei, Incorporated	5/19/67-5/18/2032	Lots 11 & 11-A, Ocean View Lots, Waiakea, South Hilo	2-1-05: 21 & 31	1.090	U-bus	10,600.00
S-5019	Kohala Ditch Company, Limited	5/19/67-12/31/91	Hamakua & North Kohala	6-3-02: 04 & 05	5,845.00	C-wtr	8,000.00
S-5020	Kohala Sugar Company	5/19/67-5/18/1992	Awalua-Haena Gov't. Tract, North Kohala	5-6-01	185.550 8.800 14.480 22.250 231.080	A-cane r/w waste past	1,856.00 67.00 1,923.00



SECOND LAND DISTRICT

Island of Maui

GENERAL LEASES—SUMMARY, SECOND LAND DISTRICT as of June 30, 1973

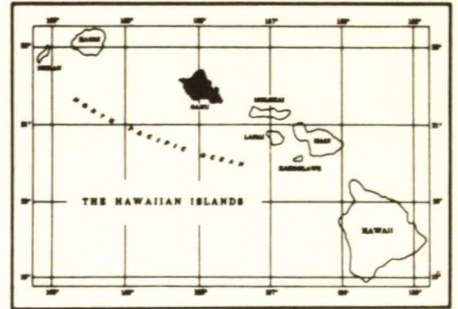
Use	Area (Acres)	Annual Report	No. Leases
Agriculture	787.715	\$ 22,163.98	25
Business	111.826	15,296.00	3
Cane	3,810.633	101,090.02	7
County	—	—	1
Eleemosynary	50.453	431.00	5
Federal	5.981	—	2
Fishpond	—	—	—
Industrial	1.262	1,800.00	2
Pasture	11,971.032	26,758.83	38
Pineapple	396.980	5,442.00	2
Recreational	7.742	150.00	1
Residential	7.017	2,187.00	4
Rights of way	26.096	3,291.92	12
State	—	—	—
Waste	938.611	108.48	—
Water Licenses, etc.	20,050.940	74,530.00	3
TOTALS	38,166.288	\$253,249.23	105

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
3411	Pioneer Mill Company, Limited	1/14/52-1/12/74	Por. of Olowalu, Lahaina	4-8-01: 08		C-r/w	100.00
3488	Tatsuo Suehiro	6/28/54-6/27/75	Lot B, Alamihi, Lahaina	4-5-05: 16	.145	U-agr	16.00
3489	Manuel Souza, etal. Trustees for Apostolic Church of Honolulu	6/28/54-6/27/75	Lot A, Alamihi, Lahaina	4-5-05: 17	.260	U-ele	26.00
3495	Joseph Young	6/28/54-6/27/75	Lot 36, Wailua Homesteads, Koolau	1-1-05: 36	1.800	A-agr	44.00
3496	Margaret M. Rossi	6/28/54-6/27/75	Lots 3 & 3-A, Keanae Homesteads, Keanae	1-1-03: 69	1.770	C-past	24.00
3497	John Emmsley	6/28/54-6/27/75	East Papaaea, Hamakualoa	2-9-13: 04 & 12	50.560	A-past	40.00
3498	John Pacheco Tavares	6/28/54-6/27/75	Gov't. remnant in W. Hanawana, Hamakualoa	2-9-10: 22 2-9-11: 08	31.470	A-past & C	40.00
3499	Joseph & Williet E. Range	6/28/54-6/27/75	Gov't. remnant in W. Papaaea, Hamakualoa	9-9-13: 14	79.100	A-past & C	100.00
3500	Ah Chow Atai	6/28/54-6/27/75	Lots 5 & 5-A, Honomanu Homesteads, Koolau	1-1-01: 45 & 46	4.440	C-past	24.00
3501	Mrs. Pearl Friel	6/28/54-6/27/75	Por. Gov't. Land of East Ohia	5-6-06: 18	56.440	A-past	50.00
3505	East Maui Irrigation Company, Limited	7/ 1/55-6/30/76	Nahiku Water License, Hana & Makawao	1-2-04: 07	10,039.100	C-wtr	9,010.00
3513	Henry M. Bush	4/25/55-4/24/76	Lots 1, 2, 3 & 4, Ualapue, Pasture Lots, Ualapue	5-6-02: 24, 26 & Por. 25	21.550	U-past	126.00
3514	Hana Ranch Company, Limited	4/25/55-4/24/76	Lots 1 & 2, Papaauhau Remnants	1-4-03: 07 & 08	26.070	A-past	78.00
3515	Frank Tavares Pacheco	4/25/55-4/24/76	Por. Gov't. Remnant, Hanehoi, Hamakualoa	2-9-10: 10, 12 2-9-11: 13	52.650	A-past	175.00
*3535	Maui Electric Company, Limited	1/16/56-1/15/77	Por. Gov't. Land of Waiakoa and Papaanui	2-3-05	4.762	C-r/w	24.00
3536	Hawaiian Broadcasting System, Limited	3/ 1/56-2/28/77	Kolekole Hill, Papaanui, together w/ easement, Makawao	2-2-07: 09	2.570	C-bus	96.00
3537	Wailuku Sugar Company	1/16/56-1/15/77	Por. Kahakuloa, Kaanapali	3-1-06: 03	136.400	C-past	300.00
L-3578	East Maui Irrigation Company, Limited	7/ 1/60-6/30/81	Huelo License, Honopou, Hamakualoa	2-9-14	6,630.840	C-wtr	50,010.00
3588	Pioneer Mill Company, Limited	1/ 1/60-12/31/89	Honokowai, Lahaina	4-4-01	798.900 23.390 200.810 101.500 1,124.600	A-cane con past waste	19,972.50 233.90 602.43 25.38 20,834.21
S-3636	Samuel & Mary Kaauamo	4/14/61-4/13/76	Gov't. Remnant, Wailua-Homestead Tract, Wailua (Koolau)	1-1-04: 28	1.250	A-agr	25.00
S-3637	Hana Ranch, Incorporated	4/14/61-4/13/91	Por. Kawaiipapa, including Loko Waiohonu, Hana	1-3-07: 01	.600	R-res	137.00
S-3638	Maui Pineapple Company, Limited	4/14/61-4/13/81	Honokowai Mauka Tract, Kaanapali, Lahaina	4-4-04: 09	157.940	A-pine	3,800.00
S-3640	Ulupalakua Ranch, Incorporated	4/28/61-4/27/82	Lot 40, Nahiku Homesteads, Koolau	1-2-01: 10	45.400	A-past & C	45.00
S-3681	Maui Pineapple Company, Limited	1/12/62-1/11/82	Por. Napili 4 & 5, Honoapiilani Hwy., Lahaina	4-3-01	239.040	A-pine	1,642.00
S-3682	Haleakala Ranch Company	1/12/62-1/11/82	Por. Haleakala Tract, Makawao, Hamakuapoko	2-4-16: 01	150.700	A-past	1,650.00
S-3683	Frank Cuelho, Sr.	3/12/62-3/11/82	Por. Pukoo, Molokai	5-7-05: 26	142.890	A-past	300.00
S-3684	Maui County Council, Incorporated, Boy Scouts of America	1/12/62-1/11/82	Lots 12-A, 12-B-1, Kahakuloa Homesteads, Wailuku (Kaanapali)	3-1-01: 29	47.680	A-ele	60.00
S-3685	Wailuku Sugar Company	1/12/62-1/11/82	Lot 12-B-2, Kahakuloa Homesteads, Wailuku (Kaanapali)	3-1-01: 01	194.510	A-past	1,825.00
S-3687	Wailuku Sugar Company	1/12/62-1/11/82	Por. Ili, Kou situate on main Gov't. Road at Waiehu, Wailuku	3-2-13: 08	12.480	A-cane	735.00
S-3695	East Maui Irrigation Company, Limited	7/ 1/62-6/30/86	Honomanu Water License, Koolau	1-1-01	3,381.000	C-wtr	15,510.00
S-3699	John M. Dee Souza	5/17/62-5/16/82	Koolau, Hana	1-1-01: 31	66.000	A-past	120.00

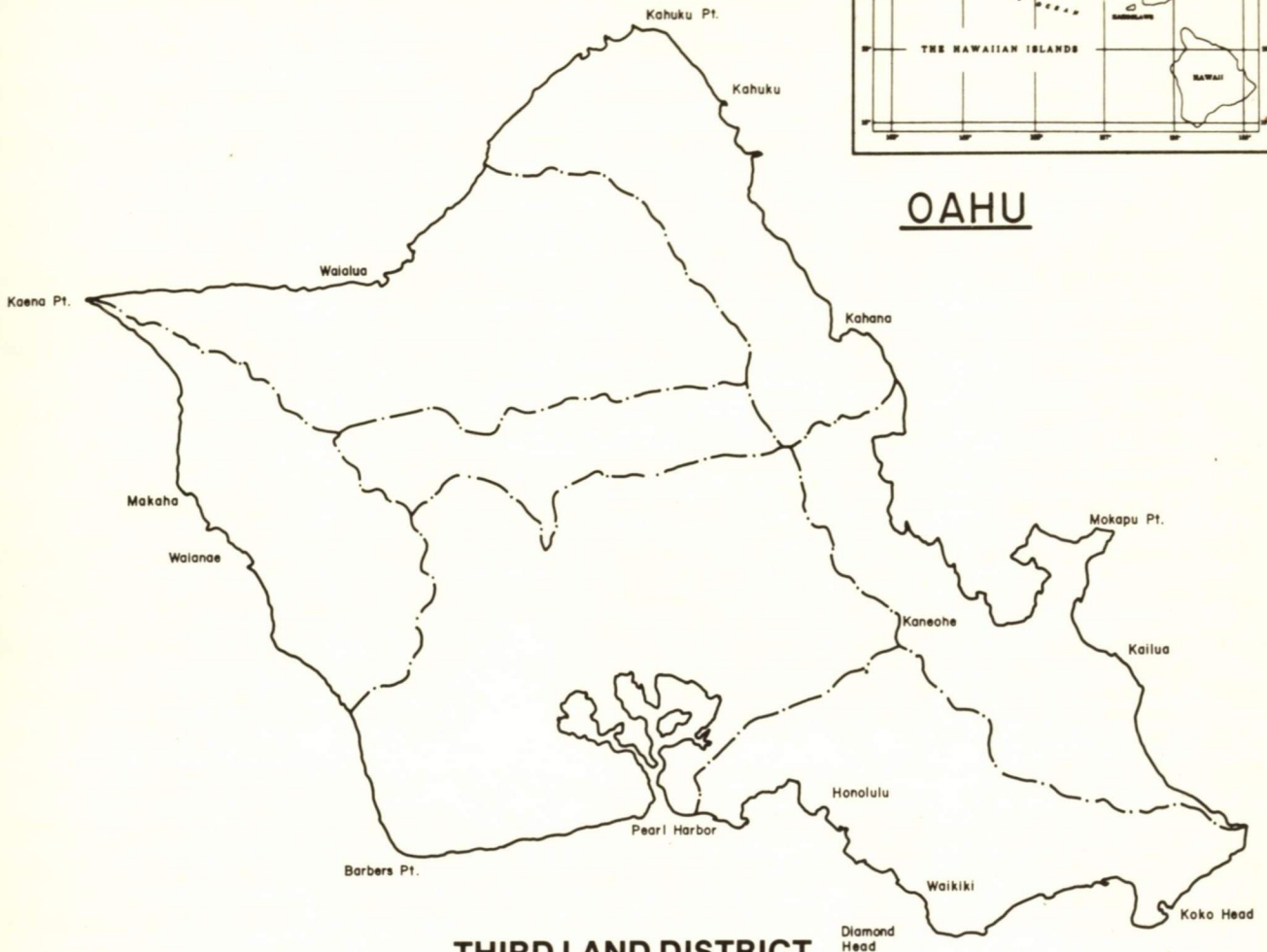
Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3700	Ulupalakua Ranch, Incorporated	3/19/62-3/18/82	Kanaio & Kaunuaahano, Kalo Tract, incl. Lots 1-17, Kanaio Homesteads, Honuaua	2-1-02 2-1-03 2-1-04	8,370.000	A-past & C	5,000.00
S-3701	Haleakala Ranch	3/19/62-3/18/82	Por. Nakula Mauka Tract, Kaupo & Kahikinui	1-8-05 1-9-08	423.200	A-past	3,714.00
S-3717	West Maui AJA Veterans Club	11/ 5/62-11/ 4/87	Lot 46, Wahikuli Houselots, Lahaina	4-5-14: 51	.460	U-ele	120.00
*S-3741	United States of America, Federal Aviation Agency	7/ 1/64-6/30/84	Kealalaloa, Ukumehame	3-6-01: 07 & 08	1.531	C-fed	Gratis
*S-3749	United States of America, Corps of Engineers (Army)	4/19/63-4/18/2028	Papaanui, Makawao (Honuaua)	2-2-07: 05	4.450	C-fed	Gratis
S-3817	Maui Young Men's Christian Association	11/24/64-11/23/2019	Kearae, Hana (Koolau)	1-1-02: 09	7.742	A-rec	150.00
S-3820	Roy F. Bodnar	4/ 8/64-4/ 7/84	Gov't. Remnants, Parcels C, D, E, Puolua, Hamakualoa, Makawao	2-9-06: 06 2-9-08: 13, 17, 18 & 24	12.890	A-past	60.00
S-3821	Leonard Nakoa	4/ 8/64-4/ 7/74	Lots 6, 9, 16, 23, 47, 48, 57, 58, Kahukuloa Homesteads, Wailuku	3-1-04	1.539	R-agr	109.00
S-3822	Walter F. Teixeira	4/ 8/64-4/ 7/84	Lot 1, Upper Kualopa Lots, Makawao	2-1-05: 01	20.820	A-past	85.00
S-3823	Victoria Kanoa	4/ 8/64-4/ 7/74	Por. Kearae & Poalimas, Parcel 1 & 2, Kearae, Koolau, adj. to Lot 3, L.C. Appl. 240, Hana	1-1-03: 33, 43 & 44	1.497	A-agr	48.00
S-3824	Anthony DeCoite	4/ 8/64-4/ 7/84	Parcels A & B, Paehala Tract, Paehala, Hana	1-5-11: 14, 15 & 29	48.100	A-past & C	105.00
S-3825	County of Maui	5/22/64-5/21/2029	Old Kipahulu School Lot, Kalena, Hana	1-6-07: 10	1.970	A-ele	Gratis
*S-3826	County of Maui, Civil Defense Agency	11/25/64-11/24/74	Splinter Shelter Bldg., Facility No. 03659; Bldg. 2, Puunene Airport	3-8-08: 14		A-cty	Gratis
S-3835	Pioneer Mill Company, Limited	6/ 2/64-6/ 1/84	Honokowai, Kaanapali, Wahikuli, Lahainaluna, Lahaina	4-4-02: 12, 13 & 14 4-4-05: 35 4-4-07: 09 & 10 4-5-21: 05 4-6-18: 11	17.901	C-r/w & A	1,500.00
S-3857	Leslie W. & Colia I. Eade	8/17/64-8/16/99	Betwn. Hana Hwy. & sea, Papaahau, Hana	1-4-03: 01	5.200	A-res & C	590.00
*S-3918	University of Hawaii	5/28/65-5/27/2030	Parcel 1, Kealahou 1 & 2 & Waiakoa, Makawao, Kula	2-2-11: 33	20.674	A-agr	Gratis
S-3920	Joseph Young	7/20/65-7/19/85	Lots 12-A, 13-A, 26-A, 32, 32-A & Parcel 54, Wailua Homesteads, Hana	1-1-05	5.930	A-agr	177.00
S-3922	Cecilia Kaauamo	7/20/65-7/19/85	Lots 2-A, 18-A, 21-A & 22-A, Wailua Homesteads, Koolau, Hana	1-1-04	2.990	A-agr	80.00
S-3923	Colin C. Cameron	7/20/65-7/19/2030	Non-exclusive easement for roadway 20-ft. wide, Kahului Airport	3-8-01	.166	U-r/w	75.00
S-3947	George W. Murphy dba Puuohoku Ranch	6/ 1/66-5/31/86	Por. Honouliwai, Makai of Molokai Forest Reserve	5-8-03 5-8-15	577.000	A-past	1,851.00
S-3964	Charles H. Tuck	6/ 1/66-5/31/86	Lots 28, 29, 30, Waiohono-Kakio Homesteads, Hana	1-4-11: 04	35.850	A-past	90.00
S-3965	Samuel Kaauamo	6/ 1/66-5/31/86	Lots 17-A & 46, Wailua Homesteads, Hana	1-1-05: 52	2.630	A-agr	34.00
S-3984	Pioneer Mill Company, Limited	7/11/66-7/10/86	Lot C, Lahainaluna Sch. lands, Lahaina	4-6-18: 04	69.400 15,100 78.100	A-cane past waste	1,735.00 30.00 1,765.00
S-3985	Pioneer Mill Company, Limited	7/11/66-7/10/86	Lots A-1 & A-3, Lahainaluna Sch. lands, Lahaina	4-6-18: 06 & 10	162.600 37.840 42.759 80.599	A-cane waste	950.00
S-4013	Obed Sniffen	10/17/66-10/16/86	Lot 9, Kahakuloa Homesteads, Wailuku	3-1-01: 23	56.010	A-past	45.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4015	Joe Castro, Jr.	10/17/66-10/16/86	Lot 11, Kahakuloa Homesteads, Wailuku	3-1-01: 21	92.800	A-past	175.00
S-4016	Hana Tropical Fruit Plantation	10/17/66-10/16/2001	Por. Kawaipapa and Kakiu, Hana	1-3-04	421.170	A-agr	700.00
*S-4028	Hawaiian Telephone Company	7/ 1/66-6/30/2031	Papaanui, Makawao (Honuaula)	2-2-07	.262	C-ind	300.00
S-4112	Maui Shores Syndicate & Kihei Shores	9/25/67-9/24/2032	Kamaole, Wailuku (Kula)	3-9-04: Por. 01	.400	U-r/w	150.00
S-4189	Hana Ranch Company, Limited	3/ 7/68-3/ 6/88	Hamoia, Hana	1-4-07: 07	1.000	A-past	15.00
S-4190	Joseph Young	3/ 7/68-3/ 6/88	Wailua, Hana (Koolau)	1-1-06: 70	2.760	A-agr	40.00
S-4192	Harry O. Mitchell & Pearl R. Mitchell	4/22/68-4/21/88	Wailua Homesteads,	1-1-04: 06 & 18	2.180	A-agr	55.00
S-4194	Dr. Louis R. Prucher	5/22/68-5/21/88	Omaopio, Makawao, (Kula)	2-3-03: 23	5.839	A-agr	105.98
S-4195	Tyson E. Benson	4/22/68-4/21/2033	Kamaole (Kula)	3-9-05: 46	.217	U-res	710.00
S-4197	Alexander & Baldwin, Incorporated	7/ 1/68-6/30/2003	Pulehunui & Waikapu, Wailua Homesteads, Wailua	3-8-08	1,207.618 296.415 371.240 1,875.273	A-cane con waste	41,416.00
S-4209	Charles M. & Mary J. Kong	10/ 3/68-10/ 2/2023	Lot 4, Keanae Homesteads, Keanae, Hana (Koolau)	1-1-03: 70	1.100	A-agr & C	1,070.00
S-4210	Herbert Aronson	10/ 3/68-10/ 2/2023	Keanae, Hana (Koolau)	1-1-03: 59	.970	A-agr res	350.00
S-4211	Stephen & Gerald Perreira	9/12/68-9/11/88	Water Hole Reserve, Waiakoa Homesteads, Kula	2-2-15: 16	16.550	A-past	120.00
S-4212	John J. Fagan & Walter C. Witte	9/ 4/68-9/ 3/2033	Kamaole, Wailuku	3-9-04: Por. 29 & Por. 01	1.119	U-bus	6,700.00
S-4229	Pioneer Mill Company, Limited	2/25/69-2/24/94	Wahikuli, Lahaina (Kaanapali)	4-5-21	1,240.882 88.900 337.737 134.700 1,802.219	A-cane con waste past	34,733.12 444.50 83.10 269.40 35,530.12
S-4230	Charles S. Ota	2/25/69-2/24/89	Honomanu, Hana	1-1-01: 52	67.000	A-past & C	150.00
S-4231	Paul T. & Bernice T. Otani	2/25/69-2/24/94	Omapio, Kula	2-3-03: 06	13.140	A-agr	500.00
S-4232	Frank T. Pacheco	2/25/69-2/24/94	Puolua, Makawao, (Hamakualoa)	2-9-06: 07 & 08	10.560	A-past	30.00
S-4233	Hansel Ah Koi	2/25/69-2/24/89	Keanae & Pahoa, Hana	1-1-08: 08	148.700	A-past	410.00
S-4241	Naoki Tokuhisa	6/ 4/69-6/ 3/94	Hamakualoa, Makawao	2-9-06: 21, 22 & 23	53.330	A-past	600.00
S-4242	Steven DeCoite & Florence Harold	6/ 4/69-6/ 3/94	Honokala, Hamakualoa	2-9-05: 20 & 32	28.420	A-past	355.00
S-4269	Friendly Isle, Incorporated	11/ 8/69-11/ 7/2034	Submerged lands fronting Ahupuaas, Puuhala & Kaamola	5-6-06	108.137	C-bus	8,500.00
S-4270	Lahaina-Kaanapali & Pacific Railroad, Limited	11/24/69-11/23/2009	Parcels 1-5, Kapunakea, Wahikuli, Lahaina	4-5-10 4-5-12 4-5-13 4-5-21	2.251	U-r/w	1,390.00
S-4271	Lahaina Hongwanji Mission	11/24/69-11/23/2034	Por. Former Lot 21-A (Mokuhinia Pond) Wainee, Lahaina	4-6-07: 41	.083	U-ele	225.00
S-4272	Michael Paul Milner	11/24/69-11/23/2024	Por. Former Old Kuiaha School Lot, Makawao	2-7-08: 15	1.840	A-agr res	300.00
S-4273	Amfac, Incorporated	11/24/69-11/23/2034	Offshore waters of Hanakao, Lahaina	4-4-06	.130	C-r/w	2.17
S-4274	Kula Acres, Incorporated	11/24/69-11/23/74	Waiakoa, Makawao (Kula)	2-2-11: 41	.048	R-r/w	12.40
S-4325	Hale Haku Ranch	12/22/70-12/21/95	Keokea (Kula)	2-2-04: 01, 02, 29 & 66	206.010	A-past	5,500.00
S-4327	Harry Hasegawa & Rosalina Anita Hasegawa	11/23/70-11/22/2025	Hamoia, Hana	1-4-08: 13	1.000	R-res	750.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4328	Anthony A. Tam & Anna K. Tam	11/23/70-11/22/95	Wailua-Nui, Hana	1-1-08: 05	120.970	A-past & C	405.00
S-4340	Akea Farms, Incorporated	7/22/71-7/21/2116	Parcel B, Molokai Farm Lots, Hoolehua, Apana 2	5-2-01: 09	205.000	A-agr	2,400.00
S-4345	James Kekiwi	7/22/71-7/21/91	Wailua Homesteads, Hana (Koolau) Maui	1-1-05: 22	.770	A-agr	35.00
S-4346	Winston H. Jensen & Richard L. Lee	8/20/71-8/19/91	Makawao (Hamakualoa)	2-8-06: Por. 45	2.902	A-past	160.00
S-4347	Francis H. Young, Jr.	9/19/71-9/18/96	Honopou, Hamakualoa	2-9-01: 18 2-9-03: 17, 20 & 39	115.750	A-past	1,550.00
S-4348	Samuel Akina	7/22/71-7/21/91	Wailua Homesteads, Hana, (Koolau)	1-1-06: 48	.400	A-agr	30.00
S-4349	Charles M. Kong & Mary Joan Kong	7/22/71-7/21/91	Wailua Homesteads, Hana, (Koolau)	1-1-06: 38	.850	A-agr	35.00
S-4350	William H.D. King & Anna M. King	7/22/71-7/21/2006	Ualapue, Kona, Molokai	5-6-02: 01	2.100	U-agr	1,400.00
*S-4372	U.S. Department of Agriculture, Soil Conservation Service	1/ 1/73-12/31/98	Parcel A, Molokai Farm Lots, Palaa-u-Apana 2	5-2-01	81.181	A-agr	Gratis
S-4373	William C. Cole & Heather M. Cole	4/12/73-4/11/2028	Kealahou 3 & 4, Makawao (Kula)	2-3-37	.091	A-r/w	4.96
S-4374	Virginia Cundiff & Mark Stephen Cundiff	4/12/73-4/11/2028	Honokala, Hamakualoa, Makawao	2-9-05	.064	A-r/w	.31
S-4375	Maui Shores Syndicate	4/12/73-9/24/2032	Kamaole, Wailuku (Kula)	3-9-04	.107	U-r/w	5.08
S-4376	Michael Scott Howden	4/12/73-4/11/93	Uaaoa & Kealii-Nui, Hamakualoa	2-8-06: 37	6.310	A-agr	610.00
S-4377	Richard Tam Sing	5/11/73-5/10/93	Por. Kaakakai Gulch, Kohoilo, Makawao (Kula)	2-3-07: 15	14.100	A-past	330.00
S-4378	Mahendra Rudra Sharma	5/11/73-10/16/2001	Wakiu, Hana	1-3-04: 12	3.650	A-agr	14,000.00
S-5008	Pioneer Mill Company, Limited	5/23/67-5/22/87	Lahainaluna School Lands, Lahaina	4-6-18: 13	34.808 7.275 42.083	A-cane waste	870.00
S-5010	Edward B. Perreira & Sylvia M. Perreira	5/23/67-5/22/87	Wailua-Nui Gov't. Remainder, Hana	1-1-08: 14	59.910	A-past & C	150.00
S-5011	Leonard Withington & Grace S. Withington	5/23/67-5/22/2032	Por. Honouliwai, Molokai	5-8-03	.176	A-r/w	28.00
S-5012	Johnson Pacific Company	5/23/67-5/22/82	Por. Kahului Airport, Kahului	3-8-01	1.000	U-ind	1,500.00
S-5014	Nobriga's Ranch, Incorporated	10/17/66-10/16/86	Lot 10, Kahakuloa Homesteads, Wailuku	3-1-01: 04	78.600	A-past	60.00



OAHU



THIRD LAND DISTRICT

Island of Oahu

GENERAL LEASES—SUMMARY, THIRD LAND DISTRICT as of June 30, 1973

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	773.227	\$ 45,930.00	53
Business	153.849	90,643.20	9
Cane	—	—	—
County	3.229	2.00	2
Eleemosynary	233.711	12,876.00	13
Federal	6,168.993	7.00	11
Fishpond	—	—	—
Industrial	122.870	396,736.00	27
Pasture	3,207.324	7,485.00	5
Pineapple	578.265	117,119.45	1
Recreational	6.190	150.00	1
Residential	—	—	—
Rights of way	87.103	4,533.85	43
State	—	—	—
Waste	—	—	—
Water Licenses, etc.	1,534.626	32,612.00	2
TOTALS	12,869.387	\$608,094.50	167

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
L-1755	Hawaiian Electric Company Limited	4/ 7/46-Indefinite	Auwaiolimu & Kewalo		.210	U-r/w	1.00
L-1756	Hawaiian Electric Company Limited	6/21/21-Indefinite	Waialea, Koolauloa		1.020	C-r/w	12.00
L-2955	Hawaiian Electric Company, Limited	5/25/48-5/24/98	Schofield Barracks		.548	U-fed	1.00
3388	Able S. Santos	1/ 1/52-12/31/73	Kaneohe, Koolaupoko	4-5-33: 02	89.500	A-agr	770.00
3459	Hawaiian Electric Company, Limited & Hawaiian Telephone Company	12/ 7/53-12/ 6/74	Pupukea-Paumalu, Koolauloa	5-9-05	.025	U-r/w	12.00
3465	Hawaiian Trust Company, Limited	12/ 7/53-12/ 6/74	Hotel St., Honolulu	2-1-25	.086	U-bus	12.00
L-3471	Hawaiian Bitumuls & Paving Company, Limited	4/ 5/54-4/ 4/75	Kaena, Waialua	6-9-01	76.376	U-ind	76.00
3523	Glenn Masuo Masunaga & Harriet Mieke Masunaga	6/30/55-6/29/76	Makiki	2-4-32	.097	U-r/w	24.00
3524	Union Oil Company of California	6/30/55-6/29/76	Iwilei	1-5-13	.053	U-r/w	24.00
L-3527	Hawaiian Electric Company, Limited	7/ 7/55-7/ 6/76	Kewalo & Kalawahine	2-5-19	.627	U-r/w	24.00
S-3540	California Packing Corp.	7/ 1/57-6/30/73	Upper Puohala, Waikele, Ewa	9-4-12	578.265	A-pine	17,119.45
3544	The Eye of the Pacific, Incorporated	2/21/56-2/20/77	Lot 12, Piliamoo House- & Remnant, Moiliili	2-8-26: 14	.551	U-ele	60.00
3545	Honolulu Gas Company, Limited	2/21/56-2/20/77	Lot CC-2-B, Kuwili, Kapalama-Kai	1-5-16 1-5-20	7.408	U-ind	55,260.00
L-3562	Hawaiian Electric Company, Limited	6/18/56-6/17/77	Piliamoo, Kanewa & Waahila	2-8-26: 29 3-3-56		C-r/w	24.00
3563	Castle & Cooke, Incorporated	8/ 1/56-7/31/77	Wahiawa, Waialua, Kaakaukukui	7-3-01: 14 & 15	.126	C-wtr	12.00
3564	Communications Hawaii, Incorporated & K (O) KUA Radio One Corporation	8/27/56-8/26/77	Kaakaukukui	2-1-58: 48	.083	U-bus	1,400.00
3565	GEM International, Incorporated	8/27/56-8/26/77	Kuwili	1-5-20: 06 & Por. 11	3.075	U-ind	9,000.00
*S-3702	Honolulu Gas Company, Limited	3/21/62-3/20/92	Wilikina Dr., Wahiawa	7-3-01	.051	U-r/w	220.00
S-3709	The Oceanic Foundation	8/21/62-8/20/2027	Waimanalo, Koolaupoko	4-1-14: 03, 04 & Por. 07	118.000	U-ele	12,000.00
S-3726	Honolulu Star Bulletin, Incorporated	1/14/63-1/13/83	Ala Wai Blvd., Kalia, Waikiki	2-6-13	2.000	U-r/w	130.00
S-3727	Roman Rivera & Alfonsa Remiscal Nacapoy	1/14/63-1/13/2028	Kaluapalena, Kalihi	1-3-11	.154	U-r/w	19.20
*S-3747	United States of America (Army Corps of Engineers)	4/19/63-4/18/2028	Mt. Kaala, Mokuleia, Waialua	6-7-03 8-4-02	1.800	C-fed	Gratis
*S-3748	United States of America (Federal Agency)	4/19/63-4/18/2028	Mokuleia Forest Reserve	8-5-06: 03	53.630	C-fed	Gratis
*S-3806	Honolulu Redevelopment Agency, City & County of Honolulu	4/ 1/64-3/31/74	Lot B, Iwilei Gov't. Lots	1-5-07: 14	2.409	U-bus	1.00
*S-3808	City & County of Honolulu	6/17/64-6/16/2029	Pouhala & Ulumoku, Waikele, Ewa	9-3-01 9-3-02	45.810	C-r/w	1.00
S-3809	Canadian Overseas Telecommunication Corporation	4/ 2/64-4/ 1/2029	Keawaula, Waianae	8-1-01	3.979	C-ind	1,000.00
S-3811	Consolidated Amusement Company, Limited	4/ 2/64-4/ 1/2029	Kalauao, Ewa	9-8-11: 11	.015	U-r/w	125.00
*S-3813	United States of America (Navy)	7/ 1/64-6/30/79	Nanakuli, Lualualei, Waianae	8-9-06: Por. 01 8-7-08: 26 8-7-06: Por. 03	.397	U-r/w	1.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-3843	City & County of Honolulu (Maluhia Hospital)	2/26/65-2/25/2030	Betwn. S. of Hala Dr. & N. of Kuakini St. ext., adjacent Blk. 1 Sec. C, McInerny Tract & Sec. C, Lanakila Tract, Kalaepohaku, Kapalama	1-6-09: 04	3.090	U-cty	1.00
*S-3845	United States of America (Army)	8/17/64-8/16/2029	Kaena Point Tracking Station		137.980	C-fed	1.00
*S-3846	United States of America (Army)	8/17/64-8/16/2029	Kawailoa Training Area	7-2-01	4,390.000	C-fed	1.00
*S-3848	United States of America (Army)	8/17/64-8/16/2029	Makua Training Area, Parcels A & B		1,515.121	C-fed	1.00
*S-3851	United States of America (Army)	8/17/64-8/16/2029	Lualualei Maneuver Area		57.825	C-fed	Gratis
*S-3864	University of Hawaii	7/ 1/65-6/30/2030	Kaakaukui, Honolulu	2-1-58	6.071	U-ele	1.00
*S-3896	Hawaiian Electric Company, Incorporated & Hawaiian Telephone Company	3/11/65-3/10/2030	Overhead easement over Por. E.O. 1346, Kapalama, Honolulu	1-5-42	.115	U-r/w	75.00
*S-3897	Hawaiian Electric Company, Incorporated	3/11/65-3/10/2030	H.H.L., Nanakuli	8-9-07	2.164	U-r/w	84.00
*S-3898	Hawaiian Electric Company, Incorporated & Hawaiian Telephone Company	3/11/65-3/10/2030	Makiki Forest Ridge Lots, Honolulu	2-5-23: 08, 21, 25 & 35	.079	C-r/w	50.00
S-3899	First Hawaiian Bank	3/11/65-3/10/2030	Lots 25 & 25-A, Auwaiolimu Lots, Honolulu	2-2-06: 25	.299	U-r/w	600.00
*S-3900	Hawaiian Electric Company, Incorporated & Hawaiian Telephone Company	3/11/65-3/10/2030	Kuwili, Kapalama, Honolulu	1-5-14	.118	U-r/w	73.00
*S-3901	Hawaiian Electric Company, Incorporated & Hawaiian Telephone Company	3/11/65-3/10/2030	Kapalama, Honolulu	1-6-02	.006	U-r/w	5.00
S-3902	Oahu Sugar Company, Limited	3/11/65-3/10/2005	Waipahu, Waikele	9-3-02 9-4-11 9-4-13 9-4-14	.262	C-r/w	70.40
*S-3903	Hawaiian Telephone Company	3/11/65-3/10/2030	Diamond Head Tunnel, Kapahulu, Honolulu	3-1-42	.959	U-r/w	1.00
*S-3904	Hawaiian Electric Company, Incorporated & Hawaiian Telephone Company	3/11/65-3/10/2030	Kalihi-Waena School, Honolulu	1-3-08	.418	U-r/w	205.00
*S-3905	Hawaiian Electric Company, Limited	3/11/65-3/10/2030	Laelae, Kalihi Valley, Honolulu	1-4-22	.365	U-r/w	50.00
*S-3906	Hawaiian Electric Company, Limited	3/11/65-3/10/2030	Kapalama Bascule Bridge, Mokauea, Kalihi, Honolulu	1-5-41	.481	U-r/w	200.00
S-3915	Francis I. Tsuzuki & Morio Omori	6/21/65-6/20/2030	Kewalo, Honolulu	2-2-04	.043	U-r/w	78.00
*S-3924	United States of America (Army Corps of Engineers)	12/ 1/65-Indefinite	Battery Harlow, Fort Ruger, Honolulu		.003	U-fed	1.00
S-3951	Aloha Council, Boy Scouts of America	3/11/66-3/10/2021	Parcels A & B, Pupukea	5-9-05 5-9-06	64.800	C-ele	150.00
*S-3963	United States of America (Army Corps of Engineers)	1/ 1/65-12/31/2029	Waialua	8-9-08: Por. 01	9.487	C-fed	1.00
S-3978	Ralph Ajifu & Richard Azama	6/27/66-6/26/2031	Kaluapuhi-Waikalua Homesteads, Kaneohe	4-5-32	.168	U-r/w	30.00
S-3980	Esther K. Arinaga	6/27/66-6/26/2031	Makiki Ditch	2-4-29	.021	U-r/w	36.00
S-3981	Roy H. Aoki & Jane S. Aoki	6/27/66-6/26/2031	Por. Pauoa Valley	2-2-16	.012	U-r/w	1.00
S-3982	Castle & Cooke, Incorporated	6/27/66-6/26/2031	Kuwili, Kapalama-Kai, Honolulu	1-5-16	.090	U-r/w	246.00
S-3983	Leki, Incorporated	6/27/66-6/26/2021	Por. Old Waialea Boy's Home, Koolauloa	5-8-01	12.854	U-bus	6,324.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3996	Y. Hata & Company, Limited	8/ 5/67- 8/ 4/2022	Food Distribution Center, 1st increment, Kaakaukui, Honolulu	2-1-58	4.146	U-bus	48,750.00
S-3997	Honolulu Community Theater	8/18/66- 8/17/2016	Por. Blk. 56, Kaimuki Tract, Kapahulu, Honolulu	3-2-30	2.735	U-bus	6,000.00
S-4014	Hawaii Little League Stadium	4/ 1/68- 3/31/2033	Moanalua	1-1-03	6.190	U-rec	150.00
S-4017	Aloha Council, Boy Scouts of America	6/10/66- 6/ 9/96	Reservoir Lot, Kaimuki, Honolulu	3-2-35	.657	U-ele	150.00
S-4027	Communications Satellite Corporation	12/28/66- 12/27/2031	Mt. Kaala, Por. Mokuleia	6-7-03	.106	C-bus	330.00
*S-4094	City and County of Honolulu	12/17/65- 12/16/2030	For. Res., Waialua Kapahulu, Waikiki, Honolulu	3-1-42	.139	U-cty	1.00
*S-4096	University of Hawaii	9/ 1/67- 8/31/77	Waimanalo	4-1-26: 02 & 21	127.282	A-agr	Gratis
*S-4100	Army & Air Force Exchange Service	11/ 1/67- 10/31/2032	Kaakaukui, Honolulu	2-1-58	2.500	U-fed	1.00
*S-4104	Hawaiian Electric Company, Incorporated	4/15/66- 5/28/2028	Kapahulu, Honolulu	3-1-42	.154	U-r/w	10.00
S-4110	Hawaii Kai Community Services Company	9/15/67- 9/14/2032	Maunaloa	3-1-15	28.313	U-r/w	255.00
S-4113	Val's U-Drive, Incorporated	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.676	U-ind	10,900.00
S-4114	Jack & Jean Altman	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.909	U-ind	14,300.00
S-4115	Associated Masons, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.945	U-ind	12,200.00
S-4116	Valdastri, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	1.013	U-ind	15,600.00
S-4117	Shafter Land Corporation	10/10/67- 10/ 9/2007	Moanalua	1-1-06	1.013	U-ind	15,300.00
S-4118	Harders Company, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	1.013	U-ind	16,400.00
S-4119	W.E. Fallon	10/10/67- 10/ 9/2007	Moanalua	1-1-06	1.094	U-ind	18,600.00
S-4120	Electrical Distributors, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	1.010	U-ind	15,500.00
S-4121	Paul Simpson, Incorporated	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.918	U-ind	15,600.00
S-4122	W.T. Chang Contractors, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.507	U-ind	7,500.00
S-4123	Douglas K. Takata	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.566	U-ind	9,600.00
S-4124	Oahu Plumbing & Sheet Metal, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.574	U-ind	9,100.00
S-4125	Oahu Development Corporation	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.574	U-ind	9,600.00
S-4126	Headrick Development, Incorporated	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.574	U-ind	9,900.00
S-4127	Quality Sheetmetal Company, Limited	10/10/67- 10/ 9/2007	Moanalua	1-1-06	.574	U-ind	9,500.00
*S-4129	United States of America (Federal Aviation Administration)	6/ 1/67- 5/30/2032	Fort Ruger		.099	U-fed	Gratis
S-4131	Tamotsu & Otome Sugiyama	10/19/67- 10/18/87	Waianae	8-5-06	1,272.000	A-past	2,800.00
S-4132	Miyoshi Uchinaka	10/19/67- 10/18/2032	Ewa	9-7-23	.010	U-r/w	6.00
S-4216	Armour Oil Hawaii, Limited	12/ 5/68- 12/ 4/2033	Kapalama, Honolulu	1-5-34	.112	U-r/w	915.00
S-4217	Ernest W. Albrecht	12/ 5/68- 12/ 4/2033	Puea, Waianae	8-5-05	.612	A-r/w	21.00
S-4218	Waipahu Soto Zen Temple Taiyoji	12/ 5/68- 12/ 4/2033	Cemetery Lot, Pouhala, Waikale, Ewa	9-4-27: 124	.229	U-ele	12.00
*S-4220	University of Hawaii	1/29/69- 1/28/2034	Kaimuki Tract 49, Kapahulu	3-2-31	8.000	U-ind	Gratis
*S-4223	Hawaiian Telephone Company	3/ 1/66- 2/28/2031	Mt. Kaala, Mokuleia, Waialua	6-7-03	.055	C-r/w	300.00
*S-4228	United States of America	1/ 1/69- 12/31/73	Por. Oahu Railway & Land Company's Railroad	8-5-01: 08	1.103	U-r/w	Gratis

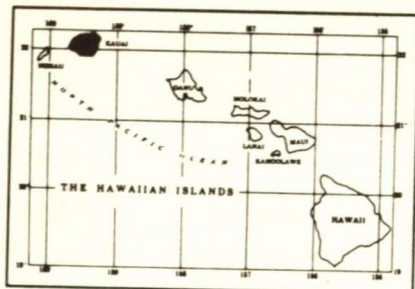
Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4258	Seatrail Terminals of California, Incorporated	9/18/69-6/11/89	Sand Island, Honolulu	1-5-41	10.000	U-ind	78,300.00
S-4266	Mokuleia Ranch & Land Company, Limited	9/ 4/69-9/ 3/94	Kuaokala & Kealia, Waialua	6-8-02: 07 6-9-03: 02	1,884.695	A-past	2,350.00
S-4267	John K. & Sarah L. Nakoa	9/ 4/69-9/ 3/2034	Palolo Valley, Por. Anuenue Elementary School	3-4-04	.031	U-r/w	31.17
S-4268	Hualalai Construction Company, Limited	9/ 4/69-9/ 3/2034	Moanalua, Honolulu	1-1-64	.051	U-r/w	103.48
S-4290	Albert C. Kobayashi	3/12/70-3/11/2010	Lot 1, Shafter Flats Inc. Dev., Unit III, Moanalua	1-1-06	.232	U-ind	7,200.00
S-4291	Bert A. Kobayashi	3/12/70-3/11/2010	Lot 2, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-06	.233	U-ind	7,500.00
S-4292	Grace Brothers, Limited	3/12/70-3/11/2010	Lot 3, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-06	.527	U-ind	16,700.00
S-4293	Rite-Way Electric Company	3/12/70-3/11/2010	Lot 4, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-06	.493	U-ind	15,900.00
S-4294	Hawaii Business Associates, Incorporated	3/12/70-3/11/2010	Lot 5, Shafter Flats Ind. Dev., Unit III, Moanalua	1-1-06	.477	U-ind	16,200.00
S-4295	John B. Hamacher	3/12/70-3/11/2035	Kapahulu	3-1-48	.020	U-r/w	85.00
S-4304	Thomas D. & Karen C. Perkins	5/19/70-5/18/2035	Por. Kalawahine, Honolulu	2-5-19: Por. 05	.033	U-r/w	30.00
S-4329	Waiahole Irrigation Company, Limited	1/ 1/71-12/31/2000	Kahana, Koolauloko	4-8-13: Por. 01 5-2-01: Por. 01	1,534.500	C-wtr	32,600.00
S-4337	American National Red Cross	9/ 1/71-8/31/2036	Kapahulu, Waikiki	3-1-42	1.000	U-ele	1.00
*S-4352	Hawaii Association for Retarded Children	5/12/72-5/11/2037	Por. of LP 8165, Part B, por. LCAw. 8559-B, Apana 32, por. land conveyed by William Lunalilo & por. Diamond Head Reservation	3-1-42	2.243	U-ele	Full term 120.00
*S-4354	Hawaiian Telephone Company	11/ 1/71-12/31/73	Por. Diamond Head Res. Kapahulu, Waikiki, Honolulu	3-1-42: Por. 19	1.571	U-bus	11,326.20
*S-4356	Daughter's of Hawaii	8/25/72-8/24/2037	Queen Emma House Res., Nuuanu Valley, Honolulu	2-2-34: 27	2.160	U-ele	150.00
S-4367	Vista Delmar	11/ 6/72-11/ 5/2037	Moanalua, Honolulu	1-1-63	.141	U-r/w	75.38
S-4368	Hualalai Construction Company, Limited	11/ 6/72-11/ 5/2037	Shafter Flats Ind. Dev., Unit II, Moanalua, Honolulu	1-1-64: Por. 26	.360	U-r/w	276.92
S-4369	The Research Corporation of the University of Hawaii	11/ 1/72-10/31/2037	Lualualei, Waianae	8-6-01	14.352	U-ele	1.00 Full term
*S-5006	University of Hawaii	6/ 1/67-5/31/2032	Honolulu	6-7-03	.110	U-ind	Gratis
S-5013	First Church of Christ, Scientist	5/25/67-5/24/2032	Honolulu	2-4-08	.050	U-ele	110.00

WAIMANALO AGRICULTURAL LEASES

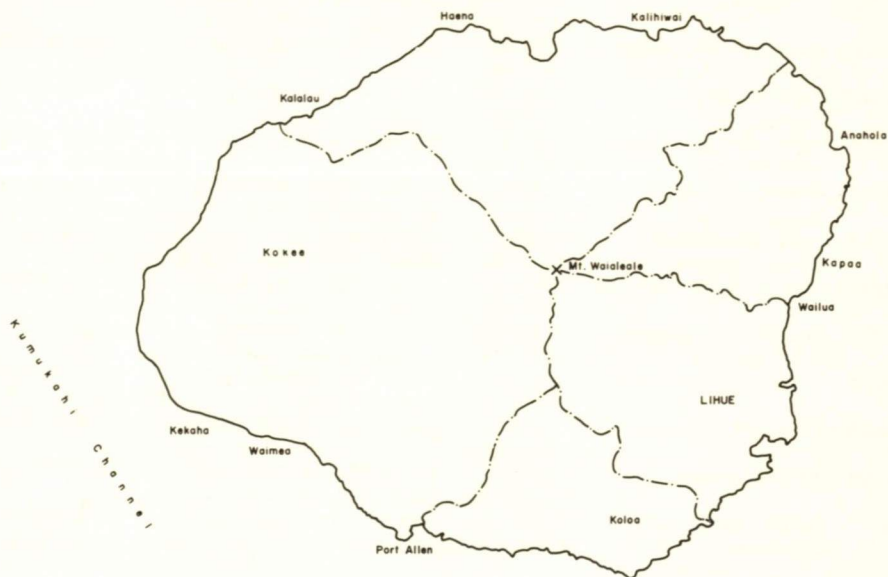
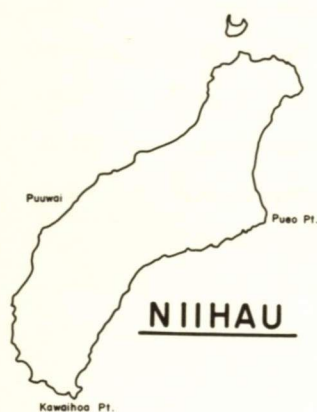
S-3753	Sidney U. Goo	12/ 2/63-12/ 1/83	Lot 2, Waimanalo Agr. Subd., Koolauloko	4-1-10: 31	3.429	A-agr	355.00
S-3754	Chozen Kanetake	12/ 2/63-12/ 1/83	Lot 3, Waimanalo Agr. Subd., Koolauloko	4-1-10: 32	4.147	A-agr	360.00
S-3755	Ronald H. Deisseroth	12/ 2/63-12/ 1/83	Lot 4, Waimanalo Agr. Subd., Koolauloko	4-1-10: 33	5.106	A-agr	350.00
S-3756	James Suenaga	12/ 2/63-12/ 1/83	Lot 5, Waimanalo Agr. Subd., Koolauloko	4-1-10: 34	5.193	A-agr	290.00
S-3757	Raymond M. & Lily T. Kam	12/ 2/63-12/ 1/83	Lot 9, Waimanalo Agr. Subd., Koolauloko	4-1-10: 40	3.742	A-agr	300.00
S-3758	Kazuto Yamada	12/ 2/63-12/ 1/83	Lot 10, Waimanalo Agr. Subd., Koolauloko	4-1-10: 41	4.094	A-agr	350.00
S-3759	Kawahara Nursery & Landscaping Company, Limited	12/ 2/63-12/ 1/84	Lot 11, Waimanalo Agr. Subd., Koolauloko	4-1-10: 42	4.486	A-agr	375.00
S-3760	Kaname & Ethel H. Tanaka	12/ 2/63-12/ 1/83	Lot 12, Waimanalo Agr. Subd., Koolauloko	4-1-10: 43	4.635	A-agr	390.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3761	Philip P. Minn Nurseries, Limited	2/ 2/64- 2/ 1/83	Lot 13, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 44	4.014	A-agr	360.00
S-3762	Henry Hiroshi Miyamoto	2/ 2/64- 2/ 1/84	Lot 14, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 46	5.137	A-agr	420.00
S-3763	William K. & Charlotte K. Fuller	12/ 2/63- 12/ 1/83	Lot 15, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 48	5.256	A-agr	410.00
S-3764	Evergreen Nurseries, Incorporated	12/ 2/63- 12/ 1/83	Lot 16, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 20	3.228	A-agr	295.00
S-3765	Harry N. Okabe & Irene Okabe	12/ 2/63- 12/ 1/83	Lot 25, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 30	7.787	A-agr	560.00
S-3766	Rodney H. & Iris T. Fukui	12/ 2/63- 12/ 1/83	Lot 26, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 29	7.001	A-agr	725.00
S-3767	Kazuto & Ayako Yamada	12/ 2/63- 12/ 1/83	Lot 27, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 28	7.195	A-agr	515.00
S-3768	Stanley S. Kawabata	12/ 2/63- 12/ 1/83	Lot 28, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 27	6.836	A-agr	515.00
S-3769	Mun On & Rosalind K. Chang	12/ 2/63- 12/ 1/83	Lot 29, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 26	5.515	A-agr	540.00
S-3770	Hiroshi & Sallie Ikene	12/ 2/63- 12/ 1/83	Lot 30, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 25	5.794	A-agr	430.00
S-3771	Samuel L.W. Kapahua	12/ 2/63- 12/ 1/83	Lot 31, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 19	10.005	A-agr	1,000.00
S-3772	Herbert Suzuki	12/ 2/63- 12/ 1/83	Lot 32, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 18	6.521	A-agr	1,300.00
S-3773	Lloyd W. Martin	12/ 2/63- 12/ 1/83	Lot 34, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 11	9.565	A-agr	650.00
S-3774	Katsumi Mashita	12/ 2/63- 12/ 1/83	Lot 35, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 10	8.541	A-agr	585.00
S-3775	Rainbow Properties, Incorporated	12/ 2/63- 12/ 1/83	Lot 36, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 09	8.860	A-agr	600.00
S-3776	Howard E. & Naomi Chaille	12/ 2/63- 12/ 1/83	Lot 37, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 12	8.513	A-agr	490.00
S-3777	John Henry & Vivian Firth	12/ 2/63- 12/ 1/83	Lot 39, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 08	7.883	A-agr	515.00
S-3778	Melvin Y.S. Chang	12/ 2/63- 12/ 1/83	Lot 40, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 07	5.686	A-agr	420.00
S-3779	James A. Nakano & Takashi Ishihara	12/ 5/63- 12/04/83	Lot 41, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 06	6.032	A-agr	435.00
S-3780	Charles R. & Mary E. Salrin	12/ 2/63- 12/ 1/83	Lot 46, Waimanalo Agr. Subd., Koolaupoko	4-1-26: 19	6.705	A-agr	300.00
S-3782	Peter A. & Gertrude Pak Chong	12/ 2/63- 12/ 1/83	Lot 38, Waimanalo Agr. Subd., Koolaupoko	4-1-26: 17	7.136	A-agr	550.00
S-3783	Henry, Joseph, Theresa, Johnny & Pauline Castillo	12/ 5/64- 12/ 4/84	Lot 1, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 30	11.092	A-past	705.00
S-3784	Edward D. & Carroll Sultan, Jr.	12/ 2/63- 12/ 1/83	Lot 22, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 20	19.481	A-past	730.00
S-3786	George & Hazel K. Ilae	12/ 5/63- 12/ 4/93	Lot 6, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 37	4.630	A-agr	500.00
S-3787	William N.K. & Mary Y.Y. Kamai, Jr.	12/ 2/63- 12/ 1/93	Lot 7, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 38	3.536	A-agr	245.00
S-3789	Shirley May Sumic	12/ 5/63- 12/ 4/93	Lot 42, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 05	1.146	A-agr	380.00
S-3792	Elizabeth Heavey & Eleanor Kaleimomi McLellan	12/ 5/63- 12/ 4/93	Lot 45, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 01	1.100	A-agr	380.00
S-3793	Robert L. & Anna K. Ham	12/ 2/63- 12/ 1/93	Lot 18-A, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 06	6.490	A-agr	950.00
S-3794	Barbara H. Wolf	12/ 2/63- 12/ 1/93	Lot 18-B, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 05	5.744	A-agr	700.00
S-3854	Stewart L. & Arla Wagers Wade	8/10/64- 8/ 9/84	Lot 47, Waimanalo Agr. Subd., Koolaupoko	4-1-26: 18	5.492	A-agr	550.00
S-3856	Fred M. & Toshiko Nakayama	8/10/64- 8/ 9/84	Lot 9, Waimanalo Farm Lots, Koolaupoko	4-1-24: 23	9.474	A-agr	570.00
S-3858	Warren Q.K. Yee & Ellen S. P. Yee	8/10/64- 8/ 9/84	Lot 8, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 39	3.662	A-agr	510.00
S-3859	Harry N. & Irene M. Okabe	8/10/64- 8/ 9/84	Lot 56-A & 56-B, Waimanalo Farm Lots, Koolaupoko	4-1-25: 22 23	8.923	A-agr	580.00
S-3860	Yong Kam & Helen Y. Kam	8/13/64- 8/12/84	Lot 31, Waimanalo Farm Lots, Koolaupoko	4-1-24: 62 & 63	9.862	A-agr	640.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3861	Nolan B. George	8/10/64-8/ 9/84	Lot 33, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 16	20.056	A-past	900.00
S-4007	E. Kahi Farms, Incorporated	9/12/66-9/11/86	Lot 23 & 24, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 23 & 24	34.538	A-agr	1,000.00
S-4008	Walter F.L. Chong & Evelyn Z. Chong	9/12/66-9/11/86	Lot 38, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 14	20.395	A-agr	960.00
S-4009	Roy M. Shiraki	9/12/66-9/11/86	Lot 28, Waimanalo Farm Lots, Koolaupoko	4-1-24: 54	9.454	A-agr	800.00
S-4010	Arnold Swartz	9/12/66-9/11/86	Lot 67, Waimanalo Farm Lots, Koolaupoko	4-1-18: 40	7.021	A-agr	1,030.00
S-4011	Thomas R. Beveridge & Matsuko Beveridge	9/12/66-9/11/96	Lot 43, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 04	1.032	A-agr	420.00
S-4093	Victor & Harriet Towne Gega	3/20/67-3/19/97	Lot 44, Waimanalo Agr. Subd., Koolaupoko	4-1-27: 02	1.002	A-agr	450.00
S-4095	Olomana Golf Links, Incorporated	5/ 4/67-5/ 3/2007	Waimanalo, Koolaupoko	4-1-13: 10	129.859	U-bus	16,500.00
S-4101	Foremost Dairies-Hawaii, Limited	7/20/67-7/19/97	Lot 50, Waimanalo Agr. Subd., Koolaupoko	4-1-08: 80 4-1-26	195.810	A-agr	8,100.00
S-4133	Henry A. Gomes & Betty Jo Gomes	10/26/67-10/25/87	Lot 49, Waimanalo Agr. Subd., Koolaupoko	4-1-26: 15	8.450	A-agr	2,000.00
S-4296	Monica Mililani Mosher	3/12/70-3/11/90	Lot 17, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 07	11.001	A-agr	2,010.00
S-4297	Frederick A. & Helen Y.T. Wong	3/12/70-3/11/90	Lot 19, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 04	14.054	A-agr	4,400.00
S-4298	Fred Texeira	3/12/70-3/11/90	Lot 20, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 03	15.587	A-agr	3,600.00
S-4305	Francis Y. Yoshida	5/19/70-5/18/2035	Waimanalo Koolaupoko	4-1-10: 74	.049	A-r/w	3.30
S-4321	The Valiants	9/24/71-9/23/2036	Lot 41, Waimanalo Agr. Subd., Koolaupoko	4-1-10: 02	20.062	A-ele	120.00
S-4342	HCHA-Waimanalo Apartments	12/22/71-12/21/2046	Parcel A, Por. Gov't. Crown Land	4-1-08: Por.	3.536	U-ele	1.00 Full term



KAUAI



FOURTH LAND DISTRICT

Island of Kauai

GENERAL LEASES—SUMMARY, FOURTH LAND DISTRICT as of June 30, 1973

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	325.762	\$ 11,369.20	41
Business	47.394	59,019.00	25
Cane	10,202.596	436,745.00	3
County	13.577	—	3
Eleemosynary	39.284	361.00	4
Federal	470.470	601.00	5
Fishpond	—	—	—
Industrial	31.692	18,283.00	3
Pasture	10,754.880	29,821.49	34
Pineapple	—	—	—
Recreational	6.567	305.00	2
Residential	112.596	11,878.00	119
Rights of way	111.945	2,234.00	14
State	—	—	—
Waste	11,657.361	—	—
Water Licenses, etc.	131.250	98,400.00	3
TOTALS	33,905.374	\$669,016.69	256

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
3451	Shigeru Miyasato	7/16/53-7/15/74	Kapaa, Kawaihau	4-6-08: Par. B	.010	U-r/w	12.00
3452	Mabel C. Lai	7/16/53-7/15/74	Kapaa, Kawaihau	4-6-28	.030	U-r/w	12.00
3548	Seichi Hoashi	8/21/56-8/20/77	Kalaheo, Kona	2-3-09: 12, 13 & 14	33.120	A-past	235.00
3549	William Hyde Rice, Limited	8/21/56-8/20/77	Lots 34, 35, 36 & 43 & Por. Lots 37, 38, 39 & 42 Wailua Rice & Kula Lots, Wailua, Lihue, Puna	3-9-02: 03	43.920	A-past	240.00
3558	Katherine V. Molale	8/21/56-8/20/77	Lot 61-A, Anahola Lots, Koolau	4-8-10: 04	.226	U-res	36.00
3560	Antone Martin, Jr.	8/21/56-8/20/77	Kuwaawaa Pasture Res., Kalaheo	2-4-03: 01	183.000	A-past	375.00
3577	Metcalf Farms Hawaii, Incorporated	1/ 1/59-12/31/79	Papaa, Hanalei	5-1-01: 01	7.120	C-r/w	200.00
S-3625	Manuel S. Andrade	3/15/61-3/14/81	Kalaheo Reservoir No. 6, Kalaheo Homesteads, Koloa	2-4-03: 17	7.340	A-past	36.00
S-3626	George B. Fernandes	3/15/61-3/14/81	Pasture Reserve "A", Kalaheo Homesteads, Kona	2-3-02: 18	33.666	A-past	537.85
S-3628	Vernon K. White	3/15/61-3/14/76	Lots 11-16, Anahola Beach Lots, Koolau	4-8-13: 16	2.850	A-agr	100.00
S-3629	Subramuniya Yoga Order	3/15/61-3/14/86	Adj. to Lot 30, Wailua Homesteads, Puna	4-2-02: Por. 01	2.960	C-rec	180.00
S-3641	William K. Medeiros	8/ 8/61-8/ 7/81	Lots 47-A & 47-B, Omao Homesteads, Koloa	2-7-04: 11 & 12	6.075	A-past	180.00
S-3645	Masao Takatsuki	5/11/61-5/10/81	Par. 2, Wailua Pasture Lands, Puna, Kawaihau	4-5-09: 05	8.970	A-past	251.00
S-3646	Samuel Thronas	5/11/61-5/10/81	Por. Gov't. land of Wailua, Puna	4-1-09: 02	25.670	A-past	400.00
S-3649	Francis M.F. Ching & Michael J.K. Ching	5/11/61-5/10/91	Lot 28, Lawai Homesteads, Koloa	2-5-05: 04, 05 & 06	7.540	A-past	421.00
S-3650	August Aguiar	7/ 9/61-7/ 8/91	Lot 5-B, Kapaa Rice & Kula Lots, Kapaa, Puna	4-5-05: 06	1.871	A-agr	180.00
S-3651	Harrison Kauai Johnson	7/ 9/61-7/ 8/81	Lot 34, Kapaa Homesteads, Puna	4-6-04: 13	5.750	A-past	435.00
S-3665	Richard Vidinha	10/16/61-10/15/81	Lots 15 & 16, Lawai Homesteads, Kona	2-6-01	16.450	A-past	48.00
S-3666	William E. & Evelyn P.O. Fernandes	10/16/61-10/15/91	Lots 33, 34, 35 & 36, & 36-A, 38 & 39, Hanalei Homesteads, Halelea	5-4-02	13.640	A-agr	175.00
S-3667	Tsutao Okasako	9/ 1/61-8/31/81	Lot 173, Kapaa Homesteads, Kawaihau, Puna	4-6-08	27.400	A-agr	650.00
S-3671	Kazuo Takanishi & Donald R. Bourassa dba Kokee Lodge	4/14/61-4/13/81	Kokee State Park, Waimea	1-4-01 1-4-04	3.180	U-bus	276.00
S-3674	William E. Fernandes	12/18/61-12/17/86	Lot 25, Wailua Rice & Kula Lots, Kawaihau, Puna	4-2-03	4.406	U-bus	250.00
S-3675	Hiromu & Toneyo Choriki	2/15/62-2/14/83	Lot 82, Hanapepe Town Lots, Waimea	1-9-10	.370	U-res	600.00
S-3676	Manuel S. Andrade	2/15/62-2/14/82	Tract 2-A, Hanapepe Valley, Kona, Waimea	1-8-05: 01	46.250	A-past	180.00
S-3678	Kekeha Sugar Company, Limited	12/18/61-12/17/81	Lot 62, Gov't. Remnants, Ili of Neamo, Waimea Valley	1-5-03	3.700	A-past	48.00
S-3679	William K. Lemn	12/18/61-12/17/91	Lot 66, Anahola Lots, Koolau	4-8-08	.510	U-res	240.00
S-3680	Lihue Plantation Company, Limited	12/18/61-12/17/86	Lot 44, Wailua Rice & Kula Lots, Wailua, Puna	3-9-02: 09	5.400	A-agr	220.00
S-3690	Manuel S. Andrade	1/27/62-1/26/82	Pasture Reserve "C", Kalaheo Homesteads, Kona	2-3-07	32.546	A-past	367.48
S-3691	Joseph S. Brun	3/27/62-3/26/82	Lots A & B, w/easement 1, Weliweli, Koloa, Kona	2-8-22	73.258	A-past	264.16
S-3692	August Aguiar	1/27/62-1/26/82	Lot 1, Kapaa Agr. Lots, Kawaihau, Puna	4-3-04	66.280	A-past	3,301.00
S-3693	McBryde Sugar Company, Limited	1/27/62-1/26/82	Lots 12-A-2 & 13-A, Hanapepe Rice & Kula Lots, Hanapepe Valley, Waimea, Kona	1-9-03	4.037	A-agr	104.00
S-3694	Shoichi Nagamine	1/27/62-1/26/82	Lots 12-A-1, 12-B & 13-B, Hanapepe Valley, Kona, Waimea	1-9-03	7.826	A-agr	190.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3704	James Kazuma Oshita	6/ 1/62-5/31/82	Lots 11 & 12, Anahola	4-8-11	2.420	A-agr	51.00
S-3705	Manuel S. Andrade	5/ 2/62-5/ 1/82	Lots, Kawaihau, Koolau	3-9-04	8.280	A-past	200.00
S-3706	Waimea Sugar Mill Company, Limited	5/ 2/62-5/ 1/82	Lot 22, Wailua Rice & Kula	1-5-03: 13	7.410	A-cane	45.00
S-3707	Manuel Andrade, Jr.	7/ 1/62-6/30/83	Lots, Wailua, Lihue, Puna	1-8-05	45.242	A-past	198.00
*S-3711	County of Kauai	11/15/62-11/14/2027	Lot 61, Gov't. Remnant of Ili of Halelopo, Waimea Valley, Kona	1-9-03 1-9-04 1-9-11 1-9-12	10.426	A-cty	Gratis
*S-3713	County of Kauai	11/15/62-11/14/2027	Tract 1, Hanapepe Valley Pasture land, Waimea, Kona	1-2-02 & Por. 01 1-8-07 & Por. 03		A-cty	Gratis
S-3733	Konko Kyo Church	2/25/63-2/24/93	Abandoned WW II Underground Tunnel, Puuopae, Waimea, Kekaha & Hanapepe Valley	1-9-12: 13	1.840	A-ele	240.00
S-3734	Tokiwa Shimonishi	2/25/63-2/24/83	Lot 5, Hanapepe Rice & Kula Lots, Hanapepe, Kona	1-9-10: 37	.097	U-bus	455.00
S-3735	McBryde Sugar Company, Limited	4/26/63-4/25/83	Lot 54-A, Hanapepe Town Lots, Waimea, Kona	1-9-12: 28	7.218	A-agr	760.00
S-3736	Susumu Nakamura	4/26/63-4/25/83	Lot 9-A, Hanapepe Rice & Kula Lots, Waimea, Kona	4-8-12: 04 & 06 4-8-13: 13	3.090	A-past	122.00
S-3737	Island Holidays, Limited	2/25/63-2/24/83	Anahola Gov't. Remnant, Parts 1 & 2, Kawaihau, Koolau	4-1-03: 05 & 15 4-1-04: 06	15.689	U-bus	1,500.00
*S-3795	Hawaiian Telephone Company	11/26/63-11/25/2013	Wailua, Kawaihau, Puna	1-9-03: 01 1-4-01: 02	1.042	A-r/w	172.00
S-3797	Richard & Concepcion D. Vidinha	11/25/63-11/24/88	Hanapepe & Puu Ka Pele, Waimea, Kona	2-3-09: 15 & 16	9.850	A-past	60.00
S-3798	George B. Fernandes	11/26/63-11/25/83	Kalaheo Pasture Reserve B, Kalaheo Homesteads, Koloa	4-1-09	13.227	A-past	75.00
S-3799	Hitoshi Miyabara	11/26/63-11/25/83	Por. Wailua, Kawaihau, Puna	1-9-12: 37	2.430	A-agr	97.20
S-3800	Noboru Munechika	1/25/64-1/24/84	Lot 8, Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-02	2.930	A-agr	355.00
S-3801	Clarence K. Nonaka	1/25/64-1/24/84	Lots 11 & 14, Hanapepe Rice & Kula Lots, Waimea	1-9-01	7.660	A-agr	150.00
S-3802	Hanako A. Duarte	1/25/64-1/24/84	Lot 22, Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-01	6.100	A-agr	725.00
S-3803	Yuku Ishida	1/25/64-1/24/74	Lot 24, Hanapepe Rice & Kula Lots, Waimea, Kona	4-8-03: 16	1.330	A-agr	90.00
S-3804	Toraji & Chuichi Oshima	11/26/63-11/25/83	Lot 83, Anahola Lots, Kawaihau, Koolau	4-8-06 4-8-07	1.357	A-agr	256.00
S-3814	Olokele Sugar Company, Limited	4/13/64-4/12/84	Lot 68, Anahola Lots, Kawaihau, Koolau	1-8-06 1-8-07 1-8-08	1,887.399	A-cane	37,900.00
S-3815	Joseph S. Brun & Joseph Rita	6/12/64-6/11/84	Sections A, B, C, D, Hanapepe, Waimea, Kona	1-8-06	287.130	A-past	810.00
S-3827	East Kauai Water Company, Limited	5/11/64-5/10/94	Section E, Hanapepe, Waimea, Kona			C-wtr	90,000.00
S-3828	Lihue Plantation Company, Limited	5/11/64-5/10/94	Drainage Basins of North Wailua, Kapaa, Anahola & Hanalei Rivers, Kapaa, Halelea	4-9-10	125.000	C-wtr	2,400.00
S-3829	Chiyeko K. Yoshii & Robert A. Lemn	5/11/64-5/10/84	Por. Moloaa For. Res., Papaa, Moloaa, Kawaihau	4-8-07 4-8-08	4.642	A-agr	155.00
S-3830	Robert Y. & Shimayo Y. Hamamura	5/11/64-5/10/84	Lots 54, 55, 67 & por. 65, pors. abandoned Maia Rd. & Lihue Plantation r/r r/w	4-8-11	2.214	A-agr	70.00
S-3831	Kauai Resort Hotel	5/18/64-5/17/2029	Lots 8, 9 & 10, Anahola Lots, Kawaihau	3-9-06: 16	2.497	U-bus	10,500.00
S-3832	Ichiji & Masako Matsumura	5/18/64-5/17/2019	Lot A-2, Parts 1 & 2, Wailua Resort Site, Lihue	4-5-11 4-5-12	.593	U-bus	1,890.00
S-3840	Kauai Resort Hotel, Incorporated	7/ 6/64-7/ 5/2029	Por. Kapaa, Kawaihau	3-9-06: 16	6.093	U-bus	18,000.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3842	Bank of Hawaii	7/ 6/64- 7/ 5/94	Lots 88-A & 88-B, Hanapepe Town Lots, Waimea	1-9-05	.452	U-bus	1,500.00
*S-3852	United States of America (Navy)	8/20/64- 8/19/2029	Bonham Air Force Base, (Kona)		189.557	U-fed	1.00
*S-3863	Kauai County, Y.W.C.A.	4/ 1/65- 3/31/2020	Lots 24 & 25, Por. Waimea & Kokee Park	1-4-04	3.607	C-rec	125.00
S-3876	Metcalf Farms Hawaii, Incorporated	1/11/65- 1/10/85	Former Koolau Sch. Lot, Hanalei	5-1-03: 01	1.990	A-agr	50.00
S-3877	John Masashi Shimonishi	1/11/65- 1/10/85	Lot 6-A, Hanapepe Rice & Kula Lots, Hanapepe Valley, Waimea, Kona	1-9-12: 11	.950	A-agr	40.00
S-3878	Ume N. Oshita	1/11/65- 1/10/85	Lot 80, Anahola Lots (H. H.L.) Anahola	4-8-11: 45	2.357	A-agr	300.00
*S-3879	Kauai Electric Company, Limited	1/11/65- 1/10/2030	Hanapepe Transformer Site, Waimea	1-8-08: 35	.017	U-r/w	26.00
S-3880	Olaf E. Thronas	1/11/65- 1/10/85	Lots 32 & 33, Wailua Rice & Kula Lots, Wailua, Kawaihau	3-9-03: 05 & 10	13.830	A-past	120.00
S-3881	Samuel K. Thronas	2/ 9/65- 2/ 8/85	Wailua Rice & Kula Lots, Wailua, Kawaihau	4-2-03: 03	19.405	A-past	500.00
S-3882	East Kauai Water Company, Limited	1/11/65- 5/10/94	Lot 39, Kapaa Homesteads, Kapaa	4-6-05: 08	.360	U-res	100.00
S-3883	Charles B. Shimomura	1/11/65- 1/10/85	Lot 58-A, Hanapepe Town Lots, Waimea	1-9-10: 33	.181	U-bus	350.00
S-3884	Kauai Kai, Incorporated	1/11/65- 1/10/2020	Lot 12, Nawiliwili Harbor	3-2-04: 09	.785	U-bus	2,000.00
S-3885	Manuel Andrade, Jr.	3/19/65- 3/18/85	Lots, Lihue	1-9-12: 05	3.080	A-agr	528.00
S-3889	Edward C. Shota	3/26/65- 3/25/85	Lot 7-A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea	4-1-01: 01, 03 & 04	12.300	A-agr	501.00
S-3892	Masao Takatsuki	1/25/65- 1/24/85	Lots 16, 17 & 18, Wailua Rice & Kula Lots, Wailua, Kawaihau	4-1-01: 12, 13 & 14	6.150	A-agr	180.00
S-3893	Koon Chow Lai	1/25/65- 1/24/85	Lots 12, 13 & 14, Wailua Rice & Kula Lots, Wailua, Kawaihau	4-1-01: 07 & 10	16.850	A-agr	280.00
S-3895	William E. Fernandes	1/25/65- 1/24/85	Lots 15 & adj. Gov't. land, Wailua Rice & Kula Lots, Wailua, Kawaihau	5-4-02: 33, 36, 37 & 42	7.300	A-agr	150.00
S-3910	Betty Wakasa Ushigome	4/14/65- 4/13/85	Lots 26, 27, 30 & 37, Hanalei Homesteads	1-9-10: 38	.095	A-bus	240.00
*S-3911	Kauai Electric Company	4/14/65- 4/13/2030	Lot 54-B, Hanapepe Town Lots, Hanapepe	3-9-01 4-2-01 4-4-01 4-4-04	26.420	A-r/w	515.00
S-3914	Manuel Andrade, Jr.	4/14/65- 6/30/82	Por. Wailua, N. Oloheua, Waipouli, Lihue, Kawaihau & Puna	1-8-05: 02	7.930	A-past	45.00
*S-3917	United States of America	2/ 1/65- 1/31/2030	Lot 26, Hanapepe Rice & Kula Lots, Hanapepe		22.900	C-fed	600.00
*S-3928	United States of America	9/ 1/65- 8/31/2030	Kokee Pacific Missile Range Facility, Waimea		8.450	C-fed	Gratis
*S-3937	County of Kauai	11/ 1/65- 10/31/2030	Kokee, Waimea	1-9-04 1-9-07	3.151	U-cty	Gratis
S-3939	Pacific Hawaii Fruit Company, Incorporated	12/16/65- 12/15/8	Parcels A-1, G, H, I, J & K, Hanapepe, Waimea	4-6-05: 07	4.750	A-agr	250.00
S-3940	McBryde Sugar Company, Limited	11/16/65- 11/15/2030	Kapaa Homesteads, Kapaa, Kawaihau	5-3-01 4-2-01 2-4-01 5-4-01 2-3-01 2-3-02 2-3-02 2-3-12 3-9-01 3-9-02	74.380	A-r/w	925.00
S-3941	Rehabilitation Unlimited, Kauai	11/16/65- 11/15/2020	Por. Hanalei, Wailua & Kalaheo	4-1-03: 18 & 20	.813	U-bus	220.00
			Parcel B, Wailua Coconut Grove, Wailua, Kawaihau (Puna)				

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3942	Kauai Kai, Incorporated	11/16/65-11/15/2020	Lots 10-A & 11-A, Nawiliwili Harbor Lots, Lihue	3-2-04: 10 & 13	.697	U-bus	1,800.00
S-3943	Joseph H. Chu	11/16/65-11/15/85	Lot 19, Hanapepe Rice & Kula Lots, Waimea	1-9-02: 19	1.140	A-agr	36.00
S-3944	Pacific Hawaii Fruit Company, Incorporated	11/16/65-11/15/85	Lots 40-A, 64 & 65, Kapaa, Kawaihau (Puna)	4-6-08: 35	3.995	A-agr	57.00
S-3945	Leroy K.A. Aguiar	12/16/65-12/15/2000	Lot 35, Kapaa Homesteads, Kawaihau (Puna)	4-6-05: 11	4.110	A-agr	600.00
*S-3952	United States of America (Navy)	12/17/65-12/16/2030	Waimea		248.220	C-fed	Gratis
S-3955	Joseph Prigge	3/19/66-3/18/86	Lots 39-A & 52, Kapaa Homesteads, Kawaihau (Puna)	4-6-05: 05 & 12	2.600	A-agr	48.00
S-3956	Pacific Hawaii Fruit Company, Limited	3/19/66-3/18/2001	Lots 39-A, 49 & 50, Kapaa Homesteads, Kawaihau (Puna)	4-6-05: 02 & 03	4.410	A-agr	150.00
S-3957	Joseph Julian & Eleanor L. De Costa	2/17/66-2/16/2031	Kalaheo, Koloa (Kona)	2-3-02: Por. 43	.025	A-r/w	7.50
S-3958	Edwin Martin	3/19/66-3/18/86	Lot 33, Kapaa Homesteads, Kawaihau (Puna)	4-6-04: 14	9.500	A-past	400.00
S-3959	Frank D. Silva	3/19/66-3/18/86	Lot 3, Kapaa Rice & Kula Lots, Kawaihau (Puna)	4-3-04: 09	25.710	A-past	703.00
S-3960	Hitoshi & Hatsue K. Miyabara	2/17/66-2/16/86	Lots 18 & 21, Hanapepe Rice & Kula Lots, Kona (Waimea)	1-9-02: 02 & 20	6.983	A-agr	160.00
S-3969	Shigeo & Eleanor K. Takeuchi	5/26/66-5/25/86	Lot 21-A, Hanapepe Town Lots, Waimea (Kona)	1-9-05: 41	148	U-bus	600.00
S-3970	Manuel Andrade, Jr.	5/26/66-5/25/86	Por. Lots 27 & 28 & Lots 29 to 34, Hanapepe Rice & Kula Lots, Waimea (Kona)	1-8-05: 08	22.650	A-past	90.00
S-3971	McBryde Sugar Company, Limited	5/26/66-5/25/2031	Pasture Reserve C, Kalaheo Homesteads, Koloa (Kona)	2-3-07: Por. 13	.666	A-r/w	20.00
S-3972	Pacific Hawaii Fruit Company, Incorporated	5/26/66-5/25/86	Por. betwn. Kapaa Stream & Kapaa Homesteads, Kawaihau (Puna)	4-6-08: 23 & 24	33.000	A-agr	140.00
S-3973	Leialoha Dung	5/26/66-5/25/2031	Lot 25, Hanapepe Rice & Kula Lots, Waimea (Kona)	1-9-01: Por. 11	.174	A-r/w	6.50
S-3974	Patrick M. & Clella L. Cockett	5/26/66-5/25/86	Lots 1, 23, 33-A, 34-A & 35-A, Hanalei Homesteads	5-4-02: 26, 27 & 30	13.070	A-past	305.00
S-3975	Pacific Hawaii Fruit Company, Incorporated	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, Kawaihau (Puna)	4-6-02: 01 & 13	26.720	A-agr	300.00
S-3976	Pacific Hawaii Fruit Company, Incorporated	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, Kawaihau (Puna)	4-6-02: 17, 19 & 42	23.920	A-agr	300.00
S-3977	Richard K. Ueoka & Barbara J. Ueoka	5/26/66-5/25/2021	Lot 23, Hanapepe Town Lots, Waimea (Kona)	1-9-05: 07	.158	U-bus	248.00
S-3987	Peter H. & Helen H. Souza	8/ 1/68-7/31/88	Lot 2-A, Kapaa Rice & Kula Lots, Kawaihau (Puna)	4-5-15: 29	.987	A-past	126.00
S-3988	Joseph Texeira	7/14/66-7/13/86	Por. Kapaa Homesteads, Kawaihau	4-6-03: Por. 22, 23, 33 & 35	18.110	A-agr	500.00
S-3989	Ronald T. Matsumura & Harry Fukushima	8/13/66-8/12/86	Por. Kapaa Homesteads, Kawaihau	4-6-05: 10	6.240	A-agr	800.00
S-3991	Ernest Palmeira	7/14/66-7/13/86	Por. Kapaa Homesteads, Kawaihau	4-6-03: 01 & 02	15.560	A-past	120.00
S-3992	Nicholas B. & Dawn E. Dettman	7/14/66-7/13/2031	Por. Lawai, Koloa	2-5-02: 16	.037	A-r/w	18.00
S-3993	Ichiji Matsumura & Masako Matsumura	7/14/66-7/13/2001	Por. Kapaa Homesteads, Kawaihau	4-6-05: 09	3.000	A-agr	630.00
S-3994	Joseph Texeira	7/14/66-7/13/86	Por. Kapaa Homesteads, Kawaihau	4-6-03: 04, 09, 10, 11, 14, 15, 19, 20 & 21	14.090	A-agr	801.00
S-3995	Peter H. Souza & Helen H. Souza	7/14/66-7/13/86	Por. Kapaa Rice & Kula Lots, Kawaihau	4-5-15: 08	10.562	A-agr	240.00
S-4021	Manuel J. Fernandes	11/17/66-11/16/86	Spring Res., Kalaheo, Koloa	2-4-01: 05 2-4-02: 01	1.760	A-past	48.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-4022	Hawaiian Telephone Company	11/17/66-11/16/2031	Por. Kapaa Rice & Kula Lots, Kawaihau	4-5-15: Por. 08	.156	A-r/w	6.00
S-4023	Tetsuro Maeda & Yoshio Hiranaka, dba T & Y	11/17/66-11/16/2021	Lot 9, Nawiliwili Harbor Lots, Lihue	3-2-04: 11	.618	U-bus	1,200.00
*S-4030	Henry I. & Margaret K. Nosaka & Wallace K. & Mikie N. Karimoto	1/ 1/66-12/31/75	Lot 4, Puu Ka Pele, Waimea	1-4-02: 30	.730	C-res	89.00
*S-4031	William Alexander, Benjamin Alexander & Henry Alexander	1/ 1/66-12/31/85	Lot 6, Puu Ka Pele, Waimea	1-4-02: 28	.920	C-res	118.00
*S-4033	Lawrence & Daisy Vidinha	1/ 1/66-12/31/85	Lot 16, Puu Ka Pele, Waimea	1-4-02: 21	.900	C-res	103.00
*S-4034	G.M. Coney, William H. Coney, Harvey A. Hutton, Malcolm G. Hutton & Clarrissa G. Gerdes	1/ 1/66-12/31/85	Lot 23, Puu Ka Pele, Waimea	1-4-02: 46	.790	C-res	101.00
*S-4035	Richmond Garrett & Florence Garrett	1/ 1/66-12/31/85	Lot 24, Puu Ka Pele, Waimea	1-4-02: 13	.990	C-res	107.00
*S-4036	Bishop Trust Company, Limited, Trustee for Elizabeth Middleton & Barbara H. Davis	1/ 1/66-12/31/85	Lot 26, Puu Ka Pele, Waimea	1-4-02: 05	1.070	C-res	144.00
*S-4037	George K. Yamamoto & Katherine K.J. Yamamoto	1/ 1/66-12/31/85	Lot 30, Puu Ka Pele, Waimea	1-4-02: 22	.910	C-res	104.00
*S-4038	Richard Vierra & Kathleen Vierra, Joseph Vierra & Clara Vierra	1/ 1/66-12/31/85	Lot 38, Puu Ka Pele, Waimea	1-4-02: 43	1.030	C-res	125.00
*S-4039	Bert O. Wade & Marion C. Wade	1/1/66-12/31/85	Lot 52, Puu Ka Pele, Waimea	1-4-02: 52	1.030	C-res	118.00
*S-4040	Beverly P. Brun & Violet V. Prigge	1/ 1/66-12/31/80	Lot 53, Puu Ka Pele, Waimea	1-4-02: 53	1.030	C-res	111.00
*S-4041	Joseph DeCosta, Sr. & Jean E. Nadatani	1/ 1/66-12/31/85	Lot 59, Puu Ka Pele, Waimea	1-4-02: 59	1.010	C-res	116.00
*S-4042	Manuel B. & Katherine Martin	1/ 1/66-12/31/85	Lot 60, Puu Ka Pele, Waimea	1-4-02: 60	1.010	C-res	121.00
*S-4043	Hawaiian Association of Seventh-Day Adventists	1/ 1/66-12/31/85	Lot 56, Puu Ka Pele, Waimea	1-4-02: 56	1.110	C-res	127.00
*S-4044	Anna L. Knapp	1/ 1/66-12/31/80	Lot 62, Puu Ka Pele, Waimea	1-4-02: 62	1.050	C-res	114.00
*S-4045	Tsukasa Miyake & Mitsuyo U. Miyake	1/ 1/66-12/31/80	Lot 63, Puu Ka Pele, Waimea	1-4-02: 63	.900	C-res	109.00
*S-4046	Joaquin S. Arruda & Lucy C. Arruda	1/ 1/66-12/31/85	Lot 71, Puu Ka Pele, Waimea	1-4-02: 68	1.120	C-res	129.00
*S-4047	Ah Wo Ahana & Hatsue Ahana, Calvin Tokita & Phillis Tokita	1/ 1/66-12/31/85	Lot 72, Puu Ka Pele, Waimea	1-4-02: 69	1.080	C-res	124.00
*S-4048	Valdemar Knudsen & Helen L. Knudsen	1/ 1/66-12/31/75	Lots 2 & 3, Kokee Camp Site, Waimea	1-4-03: 01 & 02	3.660	C-res	271.00
*S-4049	Charles T. & Alice J. Wallis	1/ 1/66-12/31/80	Lot 4, Kokee Camp Site, Waimea	1-4-03: 14	1.050	C-res	86.00
*S-4050	William A. & Marjorie I. Thiis	1/ 1/66-12/31/80	Lot 5, Kokee Camp Site, Waimea	1-4-03: 16	.980	C-res	81.00
*S-4051	John F. & Gay Lee Bylander	1/ 1/66-12/31/85	Lot 6, Kokee Camp Site, Waimea	1-4-03: 04	.960	C-res	85.00
*S-4052	John S. & Helen E. Sheehan	1/ 1/66-12/31/75	Lot 7, Kokee Camp Site, Waimea	1-4-04: 05	.810	C-res	62.00
*S-4053	Charles A. & Rebecca R. Harker	1/ 1/66-12/31/80	Lot 9, Kokee Camp Site, Waimea	1-4-04: 07	.790	C-res	68.00
*S-4054	Hans W. & Anna J. Hansen	1/ 1/66-12/31/80	Lot 11, Kokee Camp Site, Waimea	1-4-04: 07	1.470	C-res	109.00
*S-4055	Hong Min & Violet C.L. Hee	1/ 1/66-12/31/80	Lot 12, Kokee Camp Site, Waimea	1-4-04: 12	2.000	C-res	197.00
*S-4056	W. Harwood Danford & Harwood Danford Williamson	1/ 1/66-12/31/80	Lot 15, Kokee Camp Site, Waimea	1-4-04: 13	1.820	C-res	140.00
*S-4057	Howard D. Briner & Norma Briner	1/ 1/66-12/31/75	Lots 17 & 18, Kokee Camp Site, Waimea	1-4-04: 38	1.660	C-res	126.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-4058	Leonard H. & Alma B. Zalopany	1/ 1/66-12/31/80	Lot 29, Kokee Camp Site, Waimea	1-4-04: 21	.710	C-res	53.00
*S-4059	John C. & Dorothy Ann F. Hance	1/ 1/66-12/31/85	Lot 30, Kokee Camp Site, Waimea	1-4-04: 20	.840	C-res	73.00
*S-4060	Patricia Smith Rice	1/ 1/66-12/31/75	Lots 31 & 32, Kokee Camp Site, Waimea	1-4-04: 19	1.900	C-res	138.00
*S-4061	Juliet Rice Wichman	1/ 1/66-12/31/80	Lot 33, Kokee Camp Site, Waimea	1-4-04: 18	.680	C-res	51.00
*S-4062	John H.R. Plews	1/ 1/66-12/31/80	Lot 34, Kokee Camp Site, Waimea	1-4-04: 17	1.010	C-res	78.00
*S-4063	Edith Rice Plews	1/ 1/66-12/31/80	Lots 35 & 36, Kokee Camp Site, Waimea	1-4-04: 16	1.460	C-res	126.00
*S-4064	Satoru Kudaishi & Jean M. Kudaishi	1/ 1/66-12/31/80	Lot 39, Kokee Camp Site, Waimea	1-4-04: 06	.770	C-res	54.00
*S-4065	George R. Ewart, III	1/ 1/66-12/31/80	Lots 42 & 44, Kokee Camp, Waimea	1-4-04: 03 & 04	1.440	C-res	143.00
*S-4066	Kenneth Roberts & Catherine Kerr Harding	1/ 1/66-12/31/75	Lot 46, Kokee Camp Site, Waimea	1-4-04: 10	1.110	C-res	77.00
*S-4067	Sterline E. & Bonnie C. Dunford & William S. Dunford	1/ 1/66-12/31/80	Lot 47, Kokee Camp Site, Waimea	1-4-04: Por. 03	1.210	C-res	84.00
*S-4068	Lindsay A. & Roberta I. Faye	1/ 1/66-12/31/80	Lot 50, Kokee Camp Site, Waimea	1-4-03: 11	.800	C-res	69.00
*S-4069	Alfred J. & Elizabeth K. Toulon & Wilfred J. & Anne K. Baldwin	1/ 1/66-12/31/85	Lot 52, Kokee Camp Site, Waimea	1-4-03: 03	.960	C-res	83.00
*S-4070	Ritchie A. & Mary M. Gentry	1/ 1/66-12/31/80	Lot 53, Kokee Camp Site, Waimea	1-4-04: 44	1.440	C-res	108.00
*S-4071	Kathryn T. Dinham	1/ 1/66-12/31/80	Lot 64, Kokee Camp Site, Waimea	1-4-04: 40	1.070	C-res	85.00
*S-4072	John Rapozo, Jr. & Norman Rapozo	1/ 1/66-12/31/85	Lot 68, Kokee Camp Site, Waimea	1-4-04: 45	.290	C-res	25.00
*S-4073	George G. & Mary D. Silva	1/ 1/66-12/31/75	Lot 71, Kokee Camp Site, Waimea	1-4-04: 62	.530	C-res	39.00
*S-4074	Edwin T. & Hong Lin W. Petteys & Edwin O.P. Petteys & Lottie K.L.P. Wolff & Charles Q.S. Petteys	1/ 1/66-12/31/80	Lot 72, Kokee Camp Site, Waimea	1-4-04: 68	.560	C-res	40.00
*S-4075	Richard & Concepcion Vidinha	1/ 1/66-12/31/80	Lot 81, Kokee Camp Site, Waimea	1-4-04: 60	.550	C-res	43.00
*S-4076	Frank & Miriam G. Rita	1/ 1/66-12/31/80	Lot 84, Kokee Camp Site, Waimea	1-4-04: 55	.670	C-res	53.00
*S-4077	Wallace H. & Sandra L. Ferreira	1/ 1/66-12/31/80	Lot 85, Kokee Camp Site, Waimea	1-4-04: 58	.790	C-res	56.00
*S-4078	Martin & Janine F. Reis	1/ 1/66-12/31/85	Lot 90, Kokee Camp Site, Waimea	1-4-04: 47	.440	C-res	33.00
*S-4079	Donald L. & Sue R. Plucknett	1/ 1/66-12/31/80	Lot 91, Kokee Camp Site, Waimea	1-4-04: 48	.580	C-res	47.00
*S-4080	Ichiro Okada & Elsie H. Okada	1/ 1/66-12/31/80	Lot 92, Kokee Camp Site, Waimea	1-4-04: 49	.530	C-res	43.00
*S-4081	William R. Warren	1/ 1/66-12/31/80	Lots 8 & 37, Kokee Camp Site, Waimea	1-4-04: 14 & 15	1.200	C-res	83.00
*S-4082	Nelson K. Hardenbergh	1/ 1/66-12/31/80	Lot 10, Kokee Camp Site, Waimea	1-4-03: 09	1.420	C-res	105.00
*S-4083	Kenji Ego & Winifred S.L. Ego	1/ 1/66-12/31/85	Lot 20 & 21, Kokee Camp Site, Waimea	1-4-04: 35	.930	C-res	72.00
*S-4084	Kathryn Hulme & Marie L. Habets	1/ 1/66-12/31/80	Lot 22, Kokee Camp Site, Waimea	1-4-04: 13	.510	C-res	35.00
*S-4085	Melvin P. Christian & Annie K. Christian	1/ 1/66-12/31/85	Lot 27, Kokee Camp Site, Waimea	1-4-04: 30	.650	C-res	55.00
*S-4086	Wilson M. Pang & Alice A. Pang	1/ 1/66-12/31/85	Lot 38, Kokee Camp Site, Waimea	1-4-04: 43	.900	C-res	69.00
*S-4087	Estate of Mina M. Marcellino	1/ 1/66-12/31/75	Lot 41, Kokee Camp Site, Waimea	1-4-04: 07	.620	C-res	46.00
*S-4088	John R. Laidlaw & Marguerite G. Laidlaw	1/ 1/66-12/31/80	Lot 43, Kokee Camp Site, Waimea	1-4-04: 08	.690	C-res	48.00
*S-4089	David Cornwell	1/ 1/66-12/31/85	Lot 45, Kokee Camp Site, Waimea	1-4-04: 09	1.320	C-res	86.00
*S-4090	Arthur R. & Lois L. Glaisyer	1/ 1/66-12/31/80	Lot 54, Kokee Camp Site, Waimea	1-4-04: 12	.400	C-res	35.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-4091	Joe T. Orrick & Betty W.S. Orrick	1/ 1/66-12/31/85	Lot 55, Kokee Camp Site, Waimea	1-4-04: 11	.310	C-res	29.00
S-4092	Samuel K. Thronas	2/16/67-2/15/2002	Parcels A & B, Wailua Game Res., N. & S. Olohana, Waipouli, Kapaa, Kawaihau	4-2-01: 01 4-4-01: 01	1,855.000	A-past	2,030.00
*S-4128	Boy Scouts of America, Aloha Council	12/ 1/67-11/30/2022	Waimea Canyon Park, Waimea (Kona)	1-4-01	29.000	C-ele	120.00
*S-4132	F.W. Broadbent, Dora B. Pratt & Alice B. Crabbe	1/ 1/66-12/31/75	Lot 7, Puu Ka Pele, Waimea	1-4-02: 29	1.020	C-res	117.00
S-4135	McBryde Sugar Company, Limited	11/29/67-11/28/2032	Waimea (Kona)	1-9-03	1.710	A-r/w	26.00
S-4140	W. & N. Corporation	2/14/68-2/13/2023	Lihue (Puna)	3-9-04: 02	22.160	U-ind	8,688.00
*S-4142	Hawaii Conference, United Church of Christ	1/ 1/66-12/31/85	Lot 56, Kokee Camp Site, Waimea	1-4-04: 27	.500	C-res	35.00
*S-4143	J. Albert & Ruth W. Roesch	1/ 1/66-12/31/80	Lot 58, Kokee Camp Site, Waimea	1-4-04: 24	1.030	C-res	89.00
*S-4144	Donn A. Carswell & Gala F. Carswell	1/ 1/66-12/31/85	Lot 61, Kokee Camp Site, Waimea	1-4-04: 28	1.000	C-res	69.00
*S-4145	Kenneth T. & Claire T. Perreira	1/ 1/66-12/31/75	Lot 65, Kokee Camp Site, Waimea	1-4-04: 36	.830	C-res	64.00
*S-4146	Manuel S. Andrade, Jr. & Mae Andrade	1/ 1/66-12/31/75	Lot 66, Kokee Camp Site, Waimea	1-4-04: 42	.700	C-res	49.00
*S-4147	Ginevra C. Waterhouse	1/ 1/66-12/31/80	Lot 67, Kokee Camp Site, Waimea	1-4-04: 41	.500	C-res	35.00
*S-4148	August & Elizabeth H. Camara, Manuel & Pearl L. Camara, Ernest & Katherine P. Camara	1/ 1/66-12/31/80	Lot 69, Kokee Camp Site, Waimea	1-4-04: 49	.500	C-res	41.00
*S-4149	Manuel G. Silva & Placida Y. Silva	1/ 1/66-12/31/75	Lot 75, Kokee Camp Site, Waimea	1-4-04: 69	.560	C-res	40.00
*S-4150	Lillian M. Uchiyama	1/ 1/66-12/31/85	Lot 86, Kokee Camp Site, Waimea	1-4-04: 59	.580	C-res	43.00
*S-4151	Sam H. Tao & Dorothy M. Tao	1/ 1/66-12/31/80	Lot 87, Kokee Camp Site, Waimea	1-4-04: 52	.590	C-res	46.00
*S-4152	Joseph A. Soares & Margaret Soares	1/ 1/66-12/31/85	Lot 88, Kokee Camp Site, Waimea	1-4-04: 53	.540	C-res	40.00
*S-4153	Conrado & Eufemia C. Edayan	1/ 1/66-12/31/80	Lot 89, Kokee Camp Site, Waimea	1-4-04: 54	.470	C-res	34.00
*S-4154	Koichi Ikeda & Asayo I. Ikeda	1/ 1/66-12/31/80	Lot 93, Kokee Camp Site, Waimea	1-4-04: 50	.420	C-res	36.00
*S-4155	William M. Moragne, Jr. & Jean B. Moragne	1/ 1/66-12/31/85	Lot 1, Puu Ka Pele, Waimea	1-4-02: 31	.970	C-res	112.00
*S-4156	Hajime Takanishi & Kimiyo O. Takanishi	1/ 1/66-12/31/85	Lot 3, Puu Ka Pele, Waimea	1-4-02: 18	.970	C-res	112.00
*S-4157	Carlo Panfiglio & Arthur E. Smith	1/ 1/66-12/31/85	Lot 5, Puu Ka Pele, Waimea	1-4-02: 32	1.130	C-res	122.00
*S-4158	Virginia C. Rapozo & Emily C. Souza	1/ 1/66-12/31/85	Lot 8, Puu Ka Pele, Waimea	1-4-02: 16	1.060	C-res	145.00
*S-4159	Hong Shin Hee & Lin Kiu Hee	1/ 1/66-12/31/85	Lot 10, Puu Ka Pele, Waimea	1-4-02: 41	.990	C-res	107.00
*S-4160	Maria K. Cox	1/ 1/66-12/31/75	Lot 12, Puu Ka Pele, Waimea	1-4-02: 47	.950	C-res	112.00
*S-4161	David T. Silver & Adele L. Silver	1/ 1/66-12/31/75	Lot 13, Puu Ka Pele, Waimea	1-4-02: 20	1.000	C-res	122.00
*S-4162	National Division of the Board of Missions of the Methodist Church	1/ 1/66-12/31/85	Lot 14, 90, 91, Puu Ka Pele, Waimea	1-4-02: 24 & 87	3.050	C-res	371.00
*S-4163	Hideo L. Nakamura & Shigeyo O. Nakamura	1/ 1/66-12/31/80	Lot 15, Puu Ka Pele, Waimea	1-4-02: 23	1.060	C-res	131.00
*S-4164	Masako Y. Kitamura & Hisao Munechika	1/ 1/66-12/31/75	Lot 18, Puu Ka Pele, Waimea	1-4-02: 25	1.050	C-res	121.00
*S-4165	Daniel Manus, Sr., & C. Manus	1/ 1/66-12/31/75	Lot 19, Puu Ka Pele, Waimea	1-4-02: 26	1.030	C-res	120.00
*S-4166	Manuel Perreira & Alga H. Perreira	1/ 1/66-12/31/75	Lot 20, Puu Ka Pele, Waimea	1-4-02: 27	.820	C-res	94.00
*S-4167	Wayne M. Sakai & Dennis M. Sakai	1/ 1/66-12/31/85	Lot 25, Puu Ka Pele, Waimea	1-4-02: 14	.890	C-res	96.00
*S-4168	Marvin A. Brennecke	1/ 1/66-12/31/85	Lot 27, Puu Ka Pele, Waimea	1-4-02: 04	1.040	C-res	140.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-4169	Arthur G. Kruse & Mary T. Kruse	1/ 1/66-12/31/85	Lot 29, Puu Ka Pele, Waimea	1-4-02: 10	1.000	C-res	121.00
*S-4170	Shigeo Nitta & Hasako U. Nitta	1/ 1/66-12/31/85	Lot 33, Puu Ka Pele, Waimea	1-4-02: 08	.850	C-res	103.00
*S-4171	Franklin & Patricia Ventura	1/ 1/66-12/31/75	Lot 43, Puu Ka Pele, Waimea	1-4-02: 39	1.000	C-res	128.00
*S-4172	Max F. Yamasaki & Lillian H. Yamasaki	1/ 1/66-12/31/85	Lot 44, Puu Ka Pele, Waimea	1-4-02: 40	1.000	C-res	121.00
*S-4173	William E. Fernandes & Evelyn P.O. Fernandes	1/ 1/66-12/31/85	Lot 45, Puu Ka Pele, Waimea	1-4-02: 37	1.130	C-res	122.00
*S-4174	William Vierra & Helen S. Vierra	1/ 1/66-12/31/85	Lot 46, Puu Ka Pele, Waimea	1-4-02: 03	1.120	C-res	129.00
*S-4175	James K. & Shizue Okada, Yoshimasa & Edith Fujimura	1/ 1/66-12/31/85	Lot 47, Puu Ka Pele, Waimea	1-4-02: 34	1.150	C-res	140.00
*S-4176	George A. Kruse & Martha S. Kruse	1/ 1/66-12/31/85	Lot 48, Puu Ka Pele, Waimea	1-4-02: 42	1.000	C-res	128.00
*S-4177	Emily K. Zuttermeister	1/ 1/66-12/31/85	Lot 50, Puu Ka Pele, Waimea	1-4-02: 35	1.010	C-res	116.00
*S-4178	Choshi Nakaya & Mitsuyo Y. Nakaya	1/ 1/66-12/31/85	Lot 51, Puu Ka Pele, Waimea	1-4-02: 51	1.050	C-res	128.00
*S-4179	Seichi Yokoyama & Vera Yokoyama	1/ 1/66-12/31/85	Lot 61, Puu Ka Pele, Waimea	1-4-02: 61	.950	C-res	115.00
*S-4180	Richard H. Nagoshi, Wallace K. Tasaka & Yuriko N. Tasaka	1/ 1/66-12/31/85	Lot 69, Puu Ka Pele, Waimea	1-4-02: 66	.870	C-res	106.00
*S-4181	Sutezo Mukai & Hatsue I. Mukai	1/ 1/66-12/31/85	Lot 70, Puu Ka Pele, Waimea	1-4-02: 67	.790	C-res	96.00
*S-4182	Mervin K. Kaohi, Sr. & Aletha Goodwin Kaohi	1/ 1/66-12/31/85	Lot 74, Puu Ka Pele, Waimea	1-4-02: 71	.900	C-res	103.00
*S-4183	Henry T. Tanaka & Michie S. Tanaka	1/ 1/66-12/31/85	Lot 76, Puu Ka Pele, Waimea	1-4-02: 73	.960	C-res	104.00
*S-4184	Isaac W. Kaiu & Gladys Y. Kaiu	1/ 1/66-12/31/85	Lot 78, Puu Ka Pele, Waimea	1-4-02: 75	.980	C-res	106.00
*S-4185	Alec Blackstad & Agnes L. Blackstad	1/ 1/66-12/31/85	Lot 82, Puu Ka Pele, Waimea	1-4-02: 79	1.110	C-res	127.00
*S-4186	Ichiro Inouye & Akiyo M. Inouye	1/ 1/66-12/31/85	Lot 83, Puu Ka Pele, Waimea	1-4-02: 81	1.000	C-res	128.00
*S-4187	Harry I. Hamada & Agnes K. Hamada	1/ 1/66-12/31/75	Lot 84, Puu Ka Pele, Waimea	1-4-02: 86	.820	C-res	89.00
*S-4188	Lawrence E. Jordan & Cheryl M. Jordan	1/ 1/66-12/31/75	Lot 89, Puu Ka Pele, Waimea	1-4-02: 85	.990	C-res	107.00
S-4199	Construction Materials Hawaii, Incorporated	11/26/68-11/25/78	Waimea (Kona)	1-8-08: 35	5.883	U-ind	5,000.00
S-4200	William E. Fernandes	8/ 1/68-7/31/2023	Kawaihau (Puna)	4-5-15: Por. 03	2.035	U-ind	825.00
*S-4208	Richard O'Neal & Helen Olga Hansen O'Neal	1/ 1/66-12/31/75	Lot 51, Kokee Camp Site, Waimea	1-4-03: 17	.580	C-res	50.00
*S-4213	George R. & Leoncia M. Susterich	1/ 1/66-12/31/75	Lot 79, Kokee Camp Site, Waimea	1-4-04: 63	.540	C-res	41.00
*S-4214	Ruth K. Hanner	1/ 1/66-12/31/85	Lot 9, Puu Ka Pele, Waimea	1-4-02: 45	.720	C-res	89.00
*S-4215	Lawrence Goodwin & Annie Goodwin	1/ 1/66-12/31/75	Lot 35, Puu Ka Pele, Waimea	1-4-02: 15	1.030	C-res	117.00
*S-4221	William M. & Ann P. Downs	10/ 1/68-12/31/80	Lot 54, Puu Ka Pele, Waimea	1-4-02: 54	1.050	C-res	120.00
S-4222	Kekaha Sugar Company, Limited	1/ 1/69-12/31/93	Waimea (including Hawaiian Home Land) (Kona)	1-2-02	7,380.657 927.130 7,759.423 11,657.361 27,724.571	A-cane con past waste	354,300.00 44,500.00 15,000.00 413,800.00 Gratis
*S-4240	University of Hawaii	4/25/69-4/24/84	Wailua, Kawaihau (Puna)	4-1-01 4-1-02	9.830	A-agr	
S-4244	Island Holidays, Limited	5/13/69-5/12/2034	Parts 1 & 2, Wailua, Kawaihau (Puna)	4-1-05	.065	U-bus	730.00
*S-4245	Hawaiian Trust Company (Will of Jean Faye)	1/ 1/66-12/31/75	Lot 40, Kokee Camp Site, Waimea	1-4-04: 05	1.110	C-res	76.00

Lease No.	Leesee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
*S-4250	Honolulu Gas Company, Limited	9/ 9/69-9/ 8/2023	Nawiliwili	3-2-03	1.614	U-ind	3,770.00
S-4254	T.T. Kuramoto & Company, Limited	8/12/69-8/11/2024	Lot 5, Kekaha Town Lots, Kawaihau (Puna)	1-3-03: 40	.302	U-bus	515.00
S-4256	Kekeha Sugar Company, Limited	8/12/69-8/11/89	Waimea (Kona)	1-5-01	6.250	C-wtr	6,000.00
S-4257	Hiroshi Azeka	8/12/69-8/11/2019	Lots 3 & 4, Kapaa Town	4-5-09: 08	.351	U-bus	733.00
*S-4259	United States of America (Army)	6/17/69-5/15/74	Parcels 1 & 2, Kokee State Park	1-4-01: 03	1.343	C-fed	Gratis
*S-4265	Kauai Electric Company, Limited	3/15/66-3/14/2031	Wailua, Lihue	3-9-06: 09	.158	U-r/w	288.00
S-4275	Katsuyoshi & Jane Kurokawa	1/25/70-1/24/2025	Lot 83, Hanapepe Town	1-9-05: 09	.322	U-bus	632.00
S-4276	Iolani Sportswear, Limited	1/27/70-1/26/2035	Lots, Waimea (Kona)	1-8-08	1.256	U-bus	1,970.00
S-4277	Jerry Louis Ornellas	1/27/70-1/26/95	Parcel B-1, Kapaa, Kawaihau (Puna)	4-4-04: Por. 05	49.701	A-past	1,550.00
S-4278	Mid Pac Development, Limited	1/27/70-1/26/2020	Kekaha, Waimea (Kona)	1-2-02	7.224	U-bus	12,400.00
S-4300	Kazuo Takanishi dba Kokee Lodge	5/12/70-5/11/2025	Lots E & F, Kokee Park	1-4-01	1.356	C-bus	10.00
*S-4338	Waialeale Boat Tours, Incorporated	5/15/72-5/14/82	Waialua River State Park, Kapaa		.008	C-bus	500.00
*S-4339	Smith Boat Tours	5/15/72-5/14/82	Waialua River State Park, Kapaa		.008	C-bus	500.00
*S-4353	University of Hawaii, College of Tropical Agriculture	6/26/71-4/24/84	Lots 8A & 8-B, Wailua Rice & Kula Lots, Kawaihau (Puna)	4-1-02	8.430	A-ele	1.00 Full term
*S-5007	University of Hawaii	6/ 1/67-5/31/87	Lihue-Koloa Forest Res., Koloa	2-4-09	.014	U-ele	Gratis

DIVISION OF STATE PARKS

Table 1. STATE PARK AREAS, ACREAGE, AND USAGE, BY ISLAND AND AREA: ENDING JUNE 30, 1973

Island and State Park Area	Year Estab.	Total Acreage	Developed Acreage	FY 1972-73 Recreation Visits (1,000) ¹
All State Park Areas	—	16,108.3	523.7	13,271
HAWAII	—	1,762.6	219.8	2,353
Akaka Falls State Park	1952	65.4	6.0	216
Hapuna Beach State Park	1967	300.0 ⁴	24.8	242
Hikiau Heiau State Monument	1967	2.0 ⁴	2.0	—
Kalopa State Recreation Area	1967	100.0 ⁴	15.0	9
Kealahou Bay State Park	1971	315.0	—	—
Kilauea State Recreation Area	1966	7.0 ⁴	1.0	—
Lava Tree State Monument	1956	17.1	10.0	35
MacKenzie State Park	1955	13.1	6.0	33
Manuka State Wayside	1952	13.2	8.0	68
Mauna Kea State Park	1962	700.0 ⁴	17.0	50
Wailoa River State Recreation Area	1954	148.8 ⁵	115.0	765
Wailuku River State Recreation Area	1967	81.0 ⁴	15.0	935
MAUI	—	187.1	37.0	1,746
Hale Kii-Pihana State Monument	1962	10.2	1.0	12
Iao Valley State Park	1961	3.7	3.0	559
Kaunahina State Park	1952	7.8	2.0	81
Keanae Valley State Wayside	1952	1.5	.5	66
Launiupoko State Wayside	1965	4.0 ⁴	4.0	378
Poli Poli Spring State Recreation Area	1957	2.0 ⁴	1.0	6
Puaa Kaa State Wayside	1954	5.0 ⁴	1.5	82
Puu Olai State Park	1971	26.9	—	—
Wahikuli State Wayside	1969	6.0 ⁴	6.0	467
Waiānapanapa State Park	1966	120.0 ⁴	18.0	95
MOLOKAI	—	233.7	10.0	57
Palaau State Park	1955	233.7	10.0	57
OAHU	—	6,034.3	94.7	3,833
Diamond Head State Monument ²	1962	148.0 ⁵	—	—
Iolani Palace State Monument	1967	10.6	6.5	745
Keaiwa Heiau State Recreation Area	1955	384.5	13.0	304
Puu O Mahuka State Monument	1962	4.0	3.5	—
Puu Ualakaa State Wayside	1957	50.0 ⁴	10.0	210
Royal Mausoleum State Monument	1968	3.3	3.0	28
Sans Souci State Recreation Area	1969	1.0	1.0	—
State Capitol	1969	10.0 ⁶	5.0	—
Ulu Po Heiau State Monument	1954	1.4	1.2	—
Waahila Ridge State Recreation Area	1967	45.0 ⁴	7.0	85
Washington Place State Monument	1966	3.1	3.0	—
Nuuanu Pali State Wayside	1964	5.0 ⁴	1.9	2,000 ⁷
Kahana Valley State Park	1970	5,260.0 ⁶	—	—
Waimanalo Bay State Recreation Area	1970	74.8 ⁵	6.0	—
Aina Moana State Recreation Area	1970	33.6	33.6	461
KAUAI	—	7,890.6	162.2	5,282
Haena State Park	1973	6.0	—	—
Kokee State Park	1952	4,640.0	55.0	863
Na Pali Coast State Park	1962	55.0 ⁴	4.0	7
Polihele State Park	1967	140.0 ⁴	20.0	291
Russian Fort State Monument	1972	17.3	5.2	—
Wahiawa Mauka State Recreation Area	1968	52.3	—	—
Wailua River State Park ³	1954	1,113.6	68.0	3,557
Waimea Canyon State Park	1952	1,866.4	10.0	564

¹Estimated visits, one visitor may account for more than one visit.

²Includes Na Laau Arboretum (9.5 acres).

³Includes Wailua River Reserve (884.2 acres); Kaunualii (3.9 acres); Fern Grotto (14.6 acres); Boat Basin (11.4 acres); Poliahu (162.2 acres); Lydgate (37.2 acres).

⁴Acquired jurisdiction; no definite boundaries yet established; acreage is estimated.

⁵Acquired jurisdiction of additions; new boundaries not yet established; acreage is estimated.

⁶Acquired responsibility; acreage is estimated.

⁷Limited current data available (Nuuanu Pali based on 1963 estimate of 1,000,000 visits).

Table 2. STATE PARK REVENUES, BY SOURCE, 1973

Income Source	Amount
Total	\$226,541
Rentals, recreation residence lots, Kokee and Waimea Canyon State Parks, Kauai	17,081
Rentals, vacation cabins and lodgings, State operated, all parks	82,442
Lease of concessions, Kokee and Wailua River State Parks, Kauai	54,533
Mooring fees, Wailua River State Park Marina, Kauai	4,110
Sale of water, all parks	4,598
Sale of electricity, Wailua River Recreation Area Pavilion	1,333
Commissions and sales, miscellaneous, all islands	812
Sale of Publications	—
Transportation Services, Wailua River State Park Marina, Kauai	61,632

Table 3. STATE PARK AREAS, TOTAL ACREAGE, RECREATION VISITS, EXPENDITURE AND REVENUE BY YEARS—1952-1973

Year ¹	No. of Areas	Acreage ²	Estimated Recreation Visits	Operating Cost Per Visit	Expenditures in Dollars			Program Revenues
					Total	Operating	C.I.P. ³	
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	7,536	3,204,000	10.0¢	1,904,582	320,187	1,584,395	34,650
1968	36	7,541	4,767,000	7.8¢	2,365,088	373,339	1,991,749	50,905
1969	38	8,231	6,142,000	7.8¢	2,820,857	479,371	2,341,486	83,038
1970	41	15,584	9,520,000	6.8¢	3,283,580	647,757	2,635,823	113,552
1971	44	15,983	13,007,000	6.0¢	3,638,211	778,306	2,859,905	151,198
1972	46	16,000	9,798,000	8.3¢	5,592,396	813,255	4,779,141	190,165
1973	46	16,108	13,271,000	5.9¢	2,687,296	780,644	1,906,652	226,541

NA—Not Available.

¹Year ended June 30.²Parks for which boundaries are not yet established are not included prior to June 30, 1970.³Capital improvement program including land acquisition.**Table 4. STATE PARK EXPENDITURE AND REVENUES BY ISLANDS: YEAR ENDING JUNE 30, 1973**

Island	Operating Cost Per Visit	Expenditures in Dollars			Program Revenues ¹
		Total	Operating	C.I.P.	
Hawaii	7.1¢	211,613	167,882	43,731	36,611
Maui	5.8¢	138,809	101,120	37,689	47,164
Molokai	9.8¢	7,231	5,564	1,667	—
Oahu ²	8.9¢	1,538,255	342,698	1,195,557	—
Kauai	3.1¢	420,397	163,380	257,017	141,955
Statewide ³	—	370,991	—	370,991	—

¹Not included: Commissions and Sales, Miscellaneous, all islands.²Includes Honolulu administration office.³Projects of general statewide significance.

Table 5. FY 1972-73 CAPITAL IMPROVEMENT EXPENDITURES

Appropriation Projects	Acquisition	Research/ Planning	Construction Design	Construction	Total
(In thousands of dollars)					
All Park Projects	68.1	447.4	223.5	1,167.7	1,906.7
STATEWIDE	—	371.0	—	—	371.0
Statewide Historic Preservation Program	—	369.0	—	—	369.0
Statewide Interpretive Planning	—	—	—	—	—
Statewide Resource Development Program	—	2.0	—	—	2.0
Urban Strip Parks—Statewide	—	—	—	—	—
HAWAII .....	.4	3.8	17.8	21.7	43.7
Akaka Falls State Park	—	—	1.6	—	1.6
Hapuna Beach State Park	—	—	10.4	2.8	13.2
Kalapana Development (Proposed)	—	—	.7	—	.7
Kalopa State Recreation Area	—	—	1.4	—	1.4
Kealahou Bay State Park .....	.4	—	—	—	.4
Kiholo Bay State Park (Proposed)	—	3.2	—	—	3.2
Kilauea State Recreation Area	—	—	—	1.9	1.9
Lapakahi State Park	—	—	.2	1.9	2.1
Lava Tree State Monument	—	—	—	—	—
MacKenzie State Park	—	.6	—	—	.6
Mauna Kea State Park	—	—	.5	4.0	4.5
Wailoa River State Recreation Area	—	—	.6	11.1	11.7
Wailuku River State Recreation Area	—	—	2.4	—	2.4
Waipio Valley (Proposed Park)	—	—	—	—	—
MAUI .....	.6	2.5	5.8	28.9	37.8
Iao Valley State Park .....	.6	—	—	—	.6
Kahului Beach Park (Proposed)	—	—	—	—	—
Kaunahou and Puu Kaa Wayside	—	—	3.7	25.5	29.2
Maunaloa-Kaanapali State Wayside	—	—	1.0	.6	1.6
Major State Park, Maui (Proposed)	—	2.5	—	—	2.5
Twin Falls Wayside Park (Proposed)	—	—	—	—	—
Waianapanapa State Park	—	—	1.1	2.8	3.9
MOLOKAI	—	—	1.0	.7	1.7
Palaau State Park	—	—	1.0	.7	1.7
OAHU	29.8	69.8	190.0	905.9	1,195.5
Aiea Moana State Recreation Area	—	—	—	15.1	15.1
(Magic Island)	—	—	—	—	—
Hanauma Bay State Underwater Park	—	—	3.1	—	3.1
Iolani Palace State Monument	—	—	—	846.4	846.4
Kahala Heights Parks (Proposed)	—	—	—	—	—
Kahana Valley State Park	—	69.8	76.9	15.9	162.6
Keaia Heiau State Recreation Area	—	—	—	—	—
Kuilioloa Heiau Historic Site	—	—	—	—	—
Leeward Oahu Railway Park (Proposed)	—	—	—	—	—
Makiki-Tantalus State Park (Proposed)	—	—	—	—	—
Makua-Kaena Point State Park (Proposed)	2.2	—	—	—	2.2
Nuuanu Pali State Wayside	—	—	16.8	—	16.8
Open Space in Leeward District (Proposed)	—	—	—	—	—
Public Access to Conservation District	8.5	—	—	—	8.5
Land (Proposed)	—	—	—	—	—
Royal Mausoleum State Monument	19.1	—	.3	—	19.4
(.4 acre acquired)	—	—	—	—	—
Sand Island State Park (Proposed)	—	—	90.0	—	90.0
Streamside Park-Manoa Stream (Proposed)	—	—	—	—	—
Waahila Ridge State Recreation Area	—	—	.1	1.1	1.2
Wahiawa Fresh Water Park (Proposed)	—	—	2.5	—	2.5
Waimanalo Bay State Recreation Area	—	—	.3	27.4	27.7
(Proposed)	—	—	—	—	—
Waimanalo Foothills (Proposed Park)	—	—	—	—	—
KAUAI	37.3	.3	8.9	210.5	257.0
Fern Grotto	—	—	2.3	—	2.3
Haena State Park (Proposed)	37.3	—	—	—	37.3
(por. court deposit)	—	—	—	—	—
Hanalei River Clearing (Proposed)	—	—	—	—	—
Hanapepe Salt Pond (Proposed park)	—	.3	—	—	.3
Kilauea Beach Access (Proposed)	—	—	—	—	—
Kokee State Park	—	—	1.1	17.3	18.4
Lydgate Park	—	—	.6	—	.6
NaPali Coast State Park	—	—	—	—	—
Polihale State Park	—	—	2.1	51.8	53.9
Russian Fort (Fort Elizabeth)	—	—	—	7.4	7.4
Wahiawa Mauka (Proposed Park)	—	—	1.0	22.8	23.8
Wailua River State Park	—	—	.6	14.2	14.8
Waimea Canyon State Park	—	—	—	—	—
Waimea Pier	—	—	1.2	97.0	98.2

DIVISION OF WATER AND LAND DEVELOPMENT

Construction Projects Started, Under Construction or Completed For Fiscal Year 1972-1973

Job No.	Description	Cost of Project	Starting Date	Completion Date	Contractor
LAND PROJECTS					
33-KL-2	Waimea Heights Subdivision, Increment I, Waimea, Kauai, Hawaii	\$280,080.00 ¹	10-26-71	8-15-73*	Mark Construction, Inc.
34-ML-5	Wahikuli House Lots Subdivision 5th Series, Wahikuli, Lahaina, Maui	264,787.80 ¹	12- 8-71	8-24-72	Fong Construction Co.
50-KL-10	Hanapepe Heights Residential Sub-Division, Hanapepe, Kauai, Hawaii (Schedule I)	37,958.00 ¹	12-13-71	7-14-73*	Mark Construction, Inc.
50-KL-10	Hanapepe Heights Residential Sub-Division, Hanapepe, Kauai, Hawaii (Schedule II)	119,267.50	12-13-71	3- 9-73	Podmore Construction-D.C. Construction, Inc. (Joint Venture)
31-HL-21	Waiakea Houselots Subdivision Sixth Series, Waiakea, S. Hilo, Hawaii	195,182.10*	2-20-73	8-18-73*	J.M. Tanaka Const., Inc.
18-KL-14	Wailua Houselots Subdivision, Sixth Series-Mango Grove, Wailua, Kauai, Hi	195,357.00 ¹	4- 9-73	12- 4-73*	E.F. Nilson, Inc.
WATER PROJECTS					
3-9W-19	Molokai Water System Office Building Molokai Irrigation Project, Molokai	\$240,514.97	10- 1-70	7-12-71	Thomas Tanaka, Inc.
17-MW-23	Exploratory Drilling, Hana Well 4601-02, Hana, Maui, Hawaii	31,435.00	6-21-71	8-11-72	Water Res. Int'l, Inc.
3-9W-29X	Repairs in Waikolu Valley, Molokai Irrigation System, Molokai, Hawaii	7,500.00	7-14-71	7-14-72	Molokai Rock & Equipt.
12-KW-9AR	Installing Pumps & Connecting Pipeline, Wailua-Kapaa Water System, Wailua, Kauai, Hawaii	74,519.69 ²	10-12-71	7-31-73*	Singer-Layne Int'l Div.
14-KW-8	Pipeline Along Rice Street, Lihue Water System, Lihue, Kauai, Hawaii	110,380.27	10-12-71	11-21-72	E.F. Nilson, Inc.
17-HW-24	Exploratory Drilling, Kiholo Well 4953-01 Puuwaawaa, North Kona, Hawaii	90,155.00	1-24-72	9-20-72	Singer-Layne Int'l Div.
35-MW-14	1.0 M.G. Alaaloa Tank, West Maui Water Project, West Maui, Hawaii	270,809.45 ²	2- 1-72	7-31-73*	E.T. Ige Const., Inc.
13-KW-10	8-Inch Pipeline, Koloa-Poipu Water System, Koloa, Kauai, Hawaii	80,356.90 ²	6-13-72	9- 7-73*	E.F. Nilson, Inc.
3-9W-28	Waikolu Surface Water Development Molokai Water Project, Phase II Kalawao, Molokai, Hawaii	757,328.00 ²	7-12-72	8-14-73*	J.A. Thompson & Son, Inc.
2-HW-13	Installation of Water Lines, Lalamilo Irrigation System, S. Kohala, Hawaii	\$118,472.00 ²	8-28-72	8- 8-73*	J.M. Tanaka Const., Inc.
35-MW-15	Napili Well 5838-02, West Maui Water Project, West Maui, Hawaii	93,000.00	9- 5-72	3-16-73	Singer-Layne Int'l Div.
22-HW-17	Exploratory Drilling, Volcano-Glenwood Water System, Volcano, Hawaii	34,314.39	10-30-72	5-31-73	Continental Drilling Co.
22-HW-19	Piihonua Well 4306-01, Hilo Water System Hilo, Hawaii	63,761.00	12-27-72	3-30-73	Roscoe Moss Company
35-MW-17	Kanaha Well 5339-04, West Maui Water Project, West Maui, Hawaii	97,010.00 ¹	12-27-72	10-17-73*	Singer-Layne Int'l Div.
48-HW-13	50 M.G. Waikoloa Reservoir II, South Kohala Water Project, South Kohala, Hi.	915,796.30 ¹	12-29-72	4-24-74*	J.A. Thompson & Son, Inc.
12-KW-8	2.0 M.G. Tank, Wailua-Kapaa Water System Wailua, Kauai, Hawaii	485,821.80 ¹	3-19-73	12-13-73*	Kauai Builders, Ltd.
14-KW-10	Kilohana Well 5823-02, Lihue Water System Lihue, Kauai, Hawaii	83,405.00 ¹	4- 2-73	8-29-73*	Roscoe Moss Company

Job No.	Description	Cost of Project	Starting Date	Completion Date	Contractor
22-HW-18	Naalehu Pump & Controls, Kau Water Project Naalehu, Kau, Hawaii	142,148.82 ²	4- 4-73	10-30-73*	Constructors Hawaii, Inc.
51-KW-11	Pump, Tank, Pipeline & Controls, Kekaha Water System, Kekaha, Kauai, Hawaii	448,957.00**			F.T. Opperman, Inc.
51-KW-10	Water Treatment Plant, Modifications & Appurtenances, Kalaheo Water System, Kalaheo, Kauai, Hawaii	308,876.00**			Channel & Harbor Dredging
35-MW-19	Kepaniwai Well 5332-05, Central Maui Water Source Development, Wailuku, Maui, Hawaii (Schedule A)	\$ 10,240.00**			Continental Drilling Co.
35-MW-19	Kepaniwai Well 4332-05, Central Maui Water Source Development, Wailuku, Maui, Hawaii (Schedule B)	59,490.00**			Roscoe Moss Company
FISH AND GAME PROJECTS					
7-OM-3	Keehi Fishery Station—Building Kapalama, Oahu, Hawaii	143,267.60	4-17-72	3-16-73	THOHT Construction, Inc.
7-OM-2	Paiko Wildlife Refuge, Honolulu Oahu, Hawaii	57,984.70	7-10-72	4- 3-73	Territorial Contractors
37-MM-7	Kanaha Pond Improvements, Kahului, Maui, Hawaii	78,046.50 ¹			Fong Construction Co., Ltd.
STATE PARKS PROJECTS					
45-OP-11	Landscaping & Park Facilities II Magic Island Park, Honolulu, Hi.	\$474,423.00	11-11-71	7-14-72	Hirahara, Inc.
36-MP-14	Picnic Shelters & Lighting, Wahikuli State Wayside, Lahaina, Maui, Hi.	34,690.00	1-17-72	9- 1-72	Global Contractors, Inc.
5-OP-6	Site Improvements & Landscaping Nuuanu Pali State Park, Nuuanu, Oahu, Hi.	199,488.11	2- 7-72	8- 4-73*	A.C. Chock, Inc.
23-HP-11	Park Development-Unit I, Hapuna Beach State Park, Lalamilo, Hawaii	425,210.05	4-17-72	8- 1-73*	M. Sonomura Cont. Co., Inc.
36-MP-15A	Comfort Station, Kaumahina State Wayside, Koolau, Maui, Hawaii	23,183.70 ¹	4-23-73	8-20-73*	Service Contracting Co.
54-KP-6	Reconstruction & Restoration of Waimea Pier, Waimea, Kauai, Hawaii	140,000.00 ¹	6-19-73	12-15-73*	Richard K.W. Tom, Inc.

*Estimated Completion Date

**Contract Awarded Only

¹Contract Bid Amount

²Adjusted Contract Amount

WAIMANALO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1972					
July	21,428,170	921.208	2,303.15	1,714.25	4,017.40
August	20,371,937	921.208	2,303.15	1,629.75	3,932.90
September	19,064,835	921.208	2,303.15	1,525.15	3,828.30
October	15,879,252	921.208	2,303.15	1,270.35	3,573.50
November	5,608,238	921.208	2,303.15	448.68	2,751.83
December	2,083,836	921.208	2,303.15	166.69	2,469.84
1973					
January	5,717,322	921.208	2,303.15	457.37	2,760.52
February	8,277,810	921.208	2,303.15	662.23	2,965.38
March	13,786,457	921.208	2,303.15	1,102.91	3,406.06
April	13,824,870	921.208	2,303.15	1,105.99	3,409.14
May	16,234,486	921.208	2,303.15	1,298.78	3,601.93
June	16,642,556	921.208	2,303.15	1,331.38	3,634.53
Total	158,919,769	—	27,637.80	12,713.53	40,351.33

WAIMEA-LALAMILO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1972					
July	11,829,410	205	461.25	799.41	1,260.66
August	12,631,510	205	461.25	851.72	1,312.97
September	11,896,020	205	461.25	810.83	1,272.08
October	15,960,800	205	461.25	1,055.82	1,517.07
November	7,270,860	205	461.25	514.31	975.56
December	5,542,710	205	461.25	388.11	849.36
1973					
January	6,155,660	205	461.25	442.42	903.67
February	8,681,100	205	461.25	610.83	1,072.08
March	10,451,440	205	461.25	724.80	1,186.05
April	13,323,630	205	461.25	920.08	1,381.33
May	20,009,670	205	461.25	1,293.66	1,745.91
June	16,894,040	205	461.25	1,142.18	1,603.43
Total	140,646,850	—	5,535.00	9,554.17	15,089.17

MOLOKAI IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1972					
July	87,640,000	7982	2,023.45	7,011.20	15,034.65
August	97,868,000	7982	8,023.45	7,830.72	15,854.17
September	60,899,000	7979	8,020.15	4,873.20	12,893.35
October	52,277,000	7978	8,019.05	4,182.16	12,201.21
November	46,925,000	7978	8,019.05	3,754.00	11,773.05
December	14,017,000	7978	8,019.05	1,121.36	9,140.41
1973					
January	12,792,000	7978	8,019.05	1,023.36	9,043.01
February	36,241,000	7978	8,019.05	2,899.28	10,918.33
March	41,757,000	7978	8,019.05	3,340.56	11,359.61
April	36,452,000	7978	8,019.05	2,916.16	10,935.21
May	52,438,000	8022	8,115.85	4,195.04	12,310.89
June	68,963,000	8022	8,067.45	5,517.04	13,584.49
Total	608,269,000	—	96,383.70	48,664.11	145,048.41

STATUS OF FLOOD CONTROL INVESTIGATION STUDIES AND PROJECTS

A. 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
Wailupe Stream, Oahu*	P.L. 83-566, as amended
Kapaakea, Molokai*	P.L. " "
Makaha, Oahu*	P.L. " "
Palolo-Manoa Stream, Oahu*	P.L. 81-517
Kaneohe-Kailua area, Oahu*	P.L. 89-298
Iao Stream, Maui*	P.L. 85-516
Kahoma Stream, Hawaii*	P.L. 86-645
Kalihi Stream, Oahu*	P.L. 90-483
Kihei, Maui*	Res. No. 1822, Flood Control, by Committee on Public Works dated July 29, 1971
Kahaluu Watershed, Oahu**	P.L. 83-556, as amended
Honolua Watershed, Maui**	P.L. " "

*Corps of Engineers

**Soil Conservation Service

B. Flood Mapping

Under a cooperative agreement between the State of Hawaii and the U.S. Army Corps of Engineers, flood hazard maps showing the limits of 50 and 100-year floods were published in Fiscal Year 1972-73 for the following areas:

Kahaluu, Oahu
Waialae-Iki, Oahu
Opaekaa, Kauai
Iao, Maui
Waikane-Waiahole, Oahu

Maps for the following areas are being prepared:

Heeia, Oahu
Puako-Anaehoomalu, Hawaii
Hauula-Punaluu, Oahu

DIVISION OF WATER AND LAND DEVELOPMENT PUBLICATIONS

Circular	C62	Preliminary Report on the Water Resources of Central Maui, Hawaii, August 1972.
"	C63	Summary of Drilling Log and Pumping Test for Kiholo Well 4953-01, North Kona, Hawaii, January 1973.
"	C64	Summary of Drilling Log and Pumping Test, Piipihonua Well 4306-01, Hilo, Hawaii, June 1973.
Report	R47	Water Resources Summary, Island of Hawaii, April 1973.