



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

REPORT TO THE GOVERNOR

1973-1974





Another Project STATE OF HAWAII
CAPITAL IMPROVEMENT PROGRAM

PAHOE AGRICULTURAL PARK

CONTRACTOR
WILLOCKS CONSTRUCTION CORP.



DEPARTMENT OF LAND AND NATURAL RESOURCES

The State's first agricultural park is being developed at Pahoehoe, Hawaii. Nineteen lots will be offered to qualified farmers by direct lease sale, not by bidding. This will assure the farmers of land at reasonable prices. This was a joint effort of the Department of Agriculture and Department of Land and Natural Resources.

TABLE OF CONTENTS

SECTION 1	Board of Land and Natural Resources	5
SECTION 2	Department of Land and Natural Resources	6
SECTION 3	Programs for Government-Wide Support.....	9
	Public Land Management (LNR 101)	9
	Conveyances and Recording (LNR 111)	11
	Services Development and Marketing for Transportation, Communications and Utilities (Water Development) (LNR 140)	11
SECTION 4	Programs for Economic Development	12
	Commercial Fisheries—Loans (LNR 151)	12
	Forestry—Production and Management Methods Improvement (LNR 152)	13
	Commercial Fishery—Production and Marketing Methods (LNR 153).....	13
	Irrigation Services for Agriculture (LNR 161)	13
	Commercial Fishery, Product Development (LNR 171)	15
	Forestry—Products Development (LNR 172).....	16
SECTION 5	Programs for Protection of the Environment	20
	Fish and Wildlife (LNR 401)	20
	Forests and Open Space (LNR 402).....	22
	Inland Waters (LNR 404).....	26
	Natural Physical Environment, General Administration (LNR 906).....	27
SECTION 6	Programs for Leisure Time.....	32
	Historical and Archaeological Places (LNR 801)	32
	Arboreta (LNR 802)	34
	Other Natural Features (LNR 803).....	36
	Other Inland-Based Outdoor Activities (LNR 804)	36
	Other Ocean-Based Activities (LNR 805)	40
	General Administration for Leisure Time (LNR 809)	41
SECTION 7	Programs for Public Safety	
	Flood Control (LNR 810)	42
APPENDIX	.....	43

The Honorable George R. Ariyoshi
Acting Governor of Hawaii
State Capitol
Honolulu, Hawaii

Dear Acting Governor Ariyoshi:

It has been said that 1974 marks . . . *"the end of an era in both the Governor's Office and in the Legislature he has considered a partner for a dozen of Hawaii's most dynamic years."* We have been privileged to have been part of the administration that has brought about economic, educational and social progress of dimensions scarcely deemed possible prior to the '60's.

This past year, we have again been concerned with programs dealing with economic development, together with programs involving our environment. In line with the trend of recent years, increased emphasis is being placed on environmental concerns: outdoor recreation, perpetuation of the significant archeological and historical reminders of our past cultures, and the conservation of those natural resources indigenous to Hawaii.

New legislation have emerged to provide clarity of parameters governing the proper utilization of our finite natural resources. The challenge to establish harmony with our precious natural surrounding proceeds on a deliberate and scrupulous course.

This report of the past year vividly describes the depth of our search to strike a balance between the personal physical welfare of our residents and the conservation of our natural environment with its unique and, oft times, fragile eco-systems. In this endeavor, we have been guided by the philosophy as expressed by Governor John A. Burns to the Sixth State Legislature on January 21, 1971:

" . . . Through our programs and policies, we must insure that our children inherit a land capable of sustaining a high quality of life as well as the knowledge, skills, and training for attaining even richer personal lives.

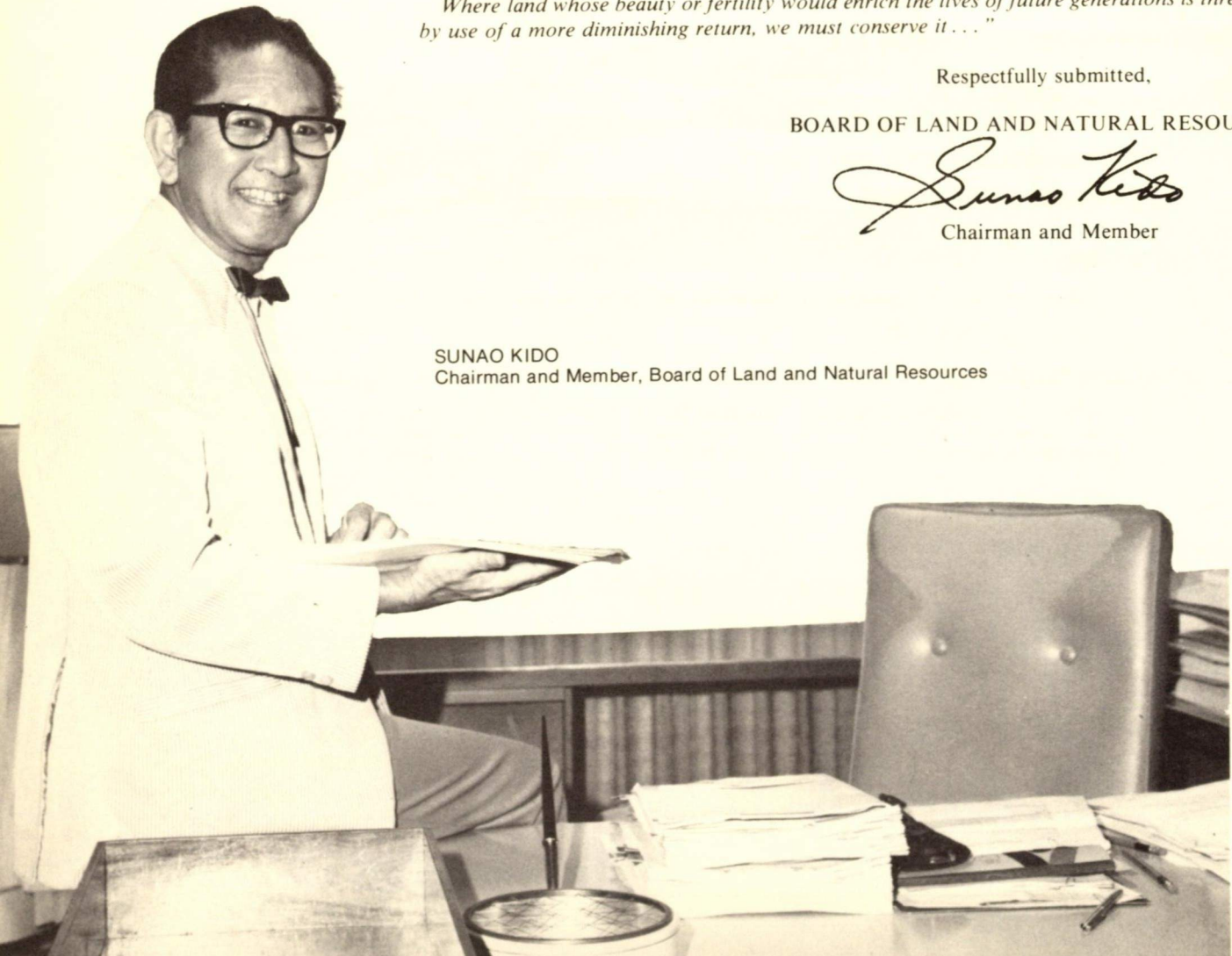
Where land whose beauty or fertility would enrich the lives of future generations is threatened by use of a more diminishing return, we must conserve it . . . "

Respectfully submitted,

BOARD OF LAND AND NATURAL RESOURCES

Sunao Kido
Chairman and Member

SUNAO KIDO
Chairman and Member, Board of Land and Natural Resources





Members of the Board of Land and Natural Resources.

MANUEL MONIZ, JR.

Maui
Airline Supervisor
Term: 1973 to 1976

HISAO MUNECHIKA

Kauai
Businessman
Term: 1972 to 1975

SHINICHI NAKAGAWA

At-Large
Union Official
Term: 1974 to 1977

LARRY MEHAU

Hawaii
Rancher
Term: 1973 to 1977

MOSES KEALOHA

Oahu
Business Executive
Term: 1973 to 1976



Hopokane Valley, beautiful and remote. Water exploration to provide for North Kohala's increased water needs is being carried out here.

SECTION 1

BOARD OF LAND AND NATURAL RESOURCES

The appointment and powers of the Board of Land and Natural Resources are derived from Chapter 171 of the Hawaii Revised Statutes as called for under Article 10 of the Hawaii State Constitution. The law, Chapter 171, states in part:

Section 171-3 Department of Land and Natural Resources. The department of land and natural resources shall be headed by an executive board to be known as the board of land and natural resources. The department shall manage, administer, and exercise control over public lands, the water resources, and minerals and all other interests therein and exercise such powers of disposition thereof as may be authorized by law. The department shall also manage and administer the state parks, historical sites, forest, fish and game reserves of the State, the forest reserve, and any other functions assigned to it by law.

Section 171-4 Board of Land and Natural Resources; terms and qualifications of members of the board; organization; expenses. The board of land and natural resources shall be composed of six members, one from each land district and two at large, to be nominated and, by and with the advice and consent of the senate, appointed by the governor as provided in section 26-34. The term and removal of a member of the board and the filling of a vacancy on the board shall also be as provided in section 26-34. There shall be not more than three members on the board from the same political party.

The governor shall select a chairman of the board

from among its members. The chairman shall call and preside at meetings and may appoint a member of the board as secretary. The members of the board shall choose one of their number to act as chairman during the absence or disability of the chairman.

The members of the board shall serve without pay but shall be entitled to reimbursement for necessary expenses while attending meetings and while in the discharge of their duties.

Regular meetings of the Board are scheduled throughout the State. This assures any citizen the opportunity to attend public meetings on commercial use of Conservation District in the County for which such use is contemplated.

The Chairman of the Board of Land and Natural Resources, according to statute, functions as the full-time, salaried Executive Officer of the Department of Land and Natural Resources and, as a member of the Governor's cabinet, represents the Board and department in all official matters. Other duties include: ex-officio member of the Board of Agriculture, and ex-officio member of the State Land Use Commission. He is also member of the State Land Use Commission. He is also a Historic Sites Reserve Commission, and the State Agricultural Coordinating Committee. In addition, the Chairman has been designated by the Governor as the State Liaison Officer on Historic Preservation, under Public Law 89-665, which governs the disbursement of historic preservation grants by the federal government.



The Department of Land and Natural Resources shares office space in this building with the Department of Accounting and General Services.

SECTION 2

DEPARTMENT OF LAND AND NATURAL RESOURCES

The Department of Land and Natural Resources, under the direction of the Chairman of the Board, carries out the actions determined by the Board and is guided by the policies established by the Board. The department is organizationally composed of six divisions:

Land Management

Conveyances

Forestry

Fish and Game

State Parks, Outdoor Recreation and Historic Sites

Water and Land Development

An administrative staff lends support to the Chairman in the areas of fiscal management, personnel affairs, and planning coordination. The total number of salaried civil service employees for the past year totalled 424.

DIVISION OF LAND MANAGEMENT

James Detor, Division Chief—28 employees

The Division of Land Management is responsible for the public lands management program of the State and the acquisition of non-public lands and other properties to meet the needs of public agencies.

Division staff activities include review and analysis of land use requests; inventory and appraisal of public lands; title searches of public and private lands; negotiations for dispositions and acquisitions; and processing land use requests.

DIVISION OF CONVEYANCES

Charles Neumann, Division Chief—48 employees

The Division of Conveyances is the sole agency within the State of Hawaii authorized to receive and register all land title documents, maps and other legal documents. Official records of all real estate transactions since the Great Mahele of 1848 are preserved.

Due to different statutory requirements, the Division is organized and operates as two parallel units to accommodate and comply with the dual system of land registration:

1. The Land Court Registration Branch is concerned primarily with the filing, processing and the registering of Land Court title documents and maps affecting registered lands; and
2. The Regular Registration Branch is concerned with the recording, processing and maintaining of all legal and land title documents and maps affecting non-registered lands entitled to recordation.

DIVISION OF FORESTRY

Tom Tagawa, Division Chief—77 employees

The Division of Forestry has the prime responsibility for the management and development of the State's forest resources. Important program activities include

the review of Conservation District Use Applications; prevention and suppression of forest, brush and range fires; detection and control of forest pests and diseases; watershed enhancement; development and maintenance of timber planting; development and maintenance of forest roads, trails and fences; forest recreation; preservation of native species and wildlife habitat; enforcement of forest and conservation rules, regulations and statutes.

Forestry research related to forest development and protection is conducted by the U.S. Forest Service Institute of Pacific Islands Forestry in cooperative agreement with the Division of Forestry.

DIVISION OF FISH AND GAME

Michio Takata, Division Chief—63 employees

The Division of Fish and Game is responsible for the development, management and preservation of the State's fish and wildlife resources and their habitats. In recent years, the Division has become increasingly involved in evaluating the effects on fish and wildlife values of proposed land development projects and other competing uses. Major emphasis is also being directed toward the preservation and restoration of endangered or threatened species of fish and wildlife.

The Division works very closely with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service, since it participates in Federal grant-in-aid programs administered by these two agencies.

DIVISION OF STATE PARKS, OUTDOOR RECREATION AND HISTORIC SITES

Joseph Souza, Division Chief—122 employees

The Division of State Parks, Outdoor Recreation and Historic Sites provides residents and visitors with opportunities for outdoor recreation and cultural enrichment. This objective is attained through a comprehensive State Park system and active participation in projects relating to preservation, restoration and interpretation of historically significant places and objects.

DIVISION OF WATER AND LAND DEVELOPMENT

Robert T. Chuck, Division Chief—57 employees

The Division of Water and Land Development is primarily responsible for the administration of the Department's programs of inland waters, water development, flood control, and irrigation services. The Division also provides administrative support to the 15 Soil and Water Conservation Districts throughout the State. The professional engineering staff provides engineering services to all operating divisions of the department.



The Division of Conveyances maintains land records in this building.

ADMINISTRATIVE SUPPORT SERVICES

Fiscal Office

Adelino Coito, Fiscal Officer—12 employees

The fiscal office has the responsibility for the financial management of the Department's budgetary allocations, long-range financial planning, and provides essential fiscal information to the program managers. The fiscal office provides centralized accounting of billings, receipts, and payments. Financial reports are prepared as needed on various aspects of the operations and programs of the Department. This office also maintains an inventory of the physical facilities, equipment and vehicles.

Personnel Office

Andrew Seki, Personnel Officer—3 employees

The Personnel Office maintains a comprehensive personnel program within the Department which includes recruitment and selection of personnel, training, and development of staff and employees, appraisal and counseling of personnel, and improvement of safety and working conditions. A complete personnel file for each employee of the Department is kept.

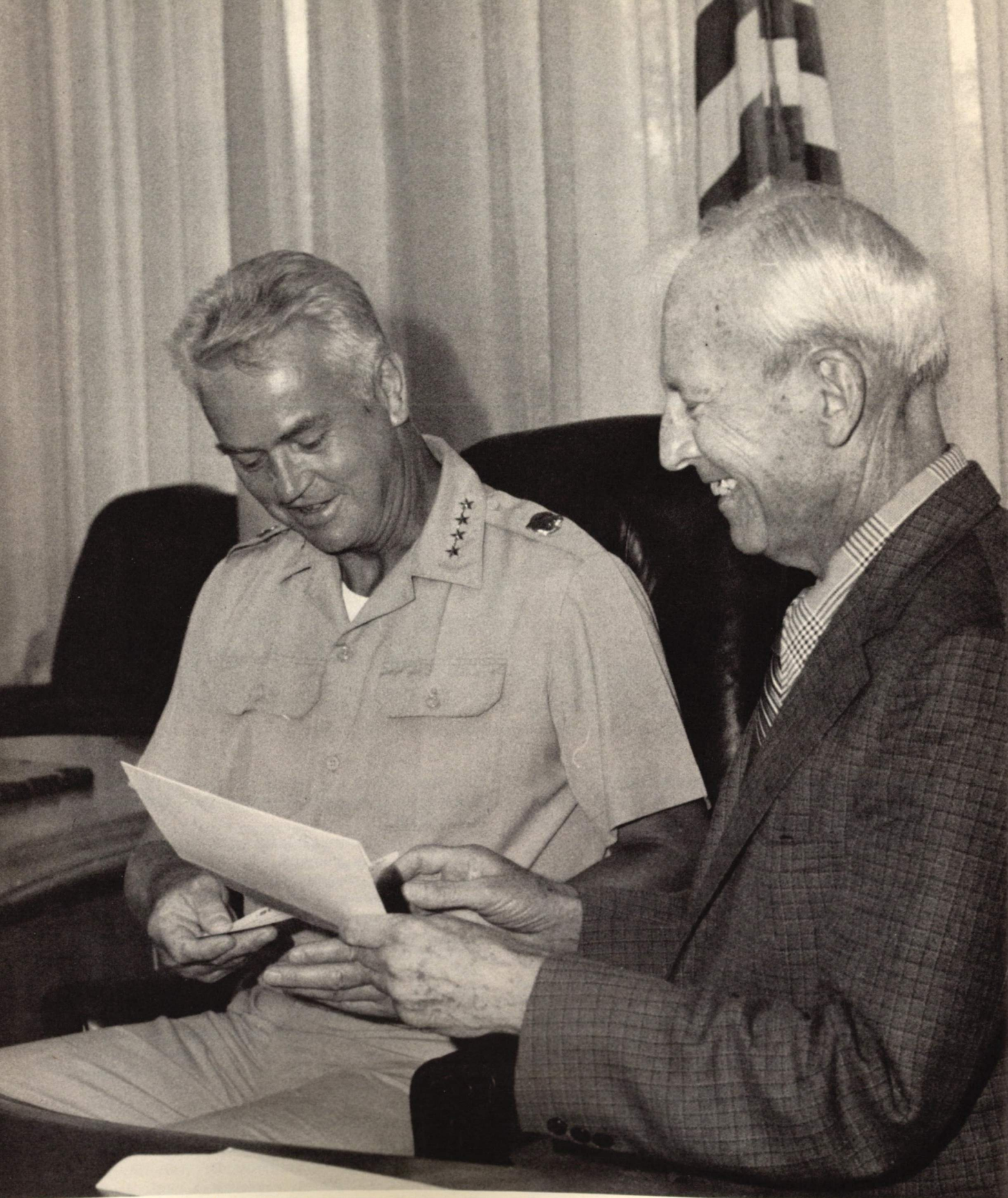
Planning Office

Gordon Soh, Program Planning Coordinator—4 employees

This office is responsible for comprehensive land and natural resources planning; for coordinating the physical aspects of program planning within the Department; for assisting in management of the capital improvement program of the Department; for assisting in processing and reviewing Environmental Impact Statements; the processing of Conservation District Use Applications, and assisting in the related inspection and enforcement of statutes, rules and regulations within Conservation Districts.

Besides the abovementioned, others such as the Chairman's secretary and clerk; deputy and his staff; and two planning coordinators handling administrative assignments complete the roster.

The next Sections describe the activities of the Department. The report, as presented, conforms to the Planning-Programming-Budgeting (PPB) System utilized by the State in its Legislative budget proposals.



Governor John A. Burns exchanges a check of \$5,400,000 for title to 51 acres of Fort Ruger lands with Lieutenant General Donald V. Bennett.

SECTION 3

PROGRAMS FOR GOVERNMENT-WIDE SUPPORT

Public Lands Management (LNR 101)

The public land management program encompasses State-owned lands classed as Public Lands including submerged lands to the three-mile limit and State-owned lands within the Conservation District as defined by the Land Use Commission.

STATE-OWNED LANDS

	Acres
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, H.R.S.*)	507,060
TOTAL	1,756,218

*Hawaii Revised Statutes (area does not reflect submerged lands)

During the 1973-1974 fiscal year, the acquisition of 29 parcels of property consisting of 173 acres at a cost of \$4.1 million was completed.

Of the total of 29 acquisitions, 8 were for the Department of Education; 6 for the Department of Accounting and General Services; 9 for the Division of Water and Land Development; and 4 for State Parks.

Noteworthy acquisitions for the year were the various school sites; the 1.116-acre Vineyard Street garage site for \$835,100; and the 2.837-acre Snug Harbor site for the University of Hawaii Marine Expeditionary Center off Sand Island Access Road at 100% public discount benefit through the U.S. Department of Health, Education and Welfare.

Completed, also, were negotiations for acquisition by direct purchase of 51.628 acres of U.S. Army land at Fort Ruger for \$5,400,000. The formal exchange of check for title will take place in mid-July, 1974. Governor John A. Burns and the Commanding General, U.S. Army Pacific are expected to make the formal exchange. This action will bring to a successful conclusion more than nine years of negotiations. The land is planned for development by the University of Hawaii and includes Community College use.

During the year the program made disposition of 17,089 acres of land in 171 transactions. Sales in fee produced a one-time return of \$452,673. The sale of leases, permits and licenses will generate direct new revenues of \$355,878 per year.



Improvements have been completed for the Waimea Heights Subdivision on Kauai. Fourteen scenic houselots will be sold later this year.

LAND DISPOSITIONS 1973-1974

	Number	Acreage	Value
Executive Orders	23	489	*
Sales in Fee	43	10	\$452,673
Leases**	18	1,762	82,223
Revocable Permits	87	14,828	273,655

*Executive Order lands are set aside without charge

**Detailed listings are contained in the Appendix.

As of June 30, 1974, there were 816 general leases in force covering use of 281,835 acres of public lands. Some 1037 revocable permits covered approximately 194,967 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 \$4,031,809 for the fiscal year.

PUBLIC LAND USES

	Acres
Total Public Lands	507,060
Special Sale Agreements (residential)	69
General Leases	
Residential	134
Agricultural	207,040
Water Licenses	27,593
Business & Industrial	700
Public Uses	46,368
Homesteads	
Certificates of Occupation and	
999-year Homestead Leases	136
Right-of-Purchase Leases	112
Fee Homesteads (Conditional Sales)	672
Revocable Permits & Licenses	194,967
Unencumbered Public Lands	29,269

The staff made 2,261 inspections of public lands during the year.

The staff also made 1,106 appraisals and rental reviews of public lands to establish rentals and upset prices to be disposed at public auction. A total of 52 land title searches, title memoranda and abstracts were made. Staff also received and recorded 465 deeds and indexed and filed 171 documents (special sale agreements, leases, permits, licenses, etc.).

Land development projects for the year were mainly on the neighbor islands. Planning and design is nearing completion for a 40-lot residential subdivision at Kahei, North Kohala, Hawaii. Plans are underway for a 200-acre agricultural park in the same general area. The houselots construction is planned for 1974, and the Agricultural Park is scheduled for completion in 1975. Also on Hawaii, 37 houselots in the University Heights subdivision are being documented for sale; 36 houselots in Waiakea Homesteads, 6th Series, are also com-

pleted and will be sold in 1974. An 8-lot houselot subdivision on the old Kurtistown School lot has been advertised for construction bids and should be completed early in 1975. The 19 Keonepoko farmlots in Puna are being processed for disposition under the Agricultural Park Act. The adjacent 22 Keonepoko Houselots will be developed after re-zoning. An additional 80 houselots are proposed for future development.

There are no immediate plans for developments on Maui. State land at Wahikuli, Lahaina, is developed to immediate capacity. The proposed Hamoa Beach Lots near Hana will be reviewed for possible development of the upper areas which lie beyond the tsunami danger zone.

State lands for housing developments on Oahu have been assigned on a priority basis to the Hawaii Housing Authority, Hawaii Council for Housing Action, and at least one independent community residents development association. This was the sale of a 65-year lease for 25 acres of State lands for one dollar to the Waimanalo Residents Housing Development Corporation under the provisions of the State's Omnibus Housing Act.

On Kauai, 29 Hanapepe Heights houselots were sold by drawing in August, 1973. Wailua Mango Grove houselots subdivision has 28 lots being processed for sale by drawing. The 14 Waimea Heights houselots will be sold at public auction. An appropriation of \$430,000 is available for a second increment at Waimea Heights. Planning will be undertaken for development of some 30 to 50 houselots near the Wailua Golf Course, formerly used as a County baseyard. A planning contract is also expected to be let for development of industrial lots at Lihue on the Nawiliwili Coral Fill area.

State lands have been sold at nominal price to the Hawaii Council for Housing Action at Waimanalo, Oahu, for low cost homes. The Banyan Court project has been tastefully constructed.



Conveyances and Recording (LNR 111)

The conveyances and recording program of the department is conducted primarily to protect the equity interests of individuals and organizations in land ownership. The department is the only agency within the State charged with the responsibility of carrying out this vital function and this has contributed to the elimination of error and confusion in land title registration.

During the past year, 94,899 documents in the Regular Registration Branch and 51,322 documents in the Land Court Registration Branch were registered. Additionally, the Regular Registration Branch issued 1,133 Uniform Commercial Code (UCC) searches while the Land Court Registration Branch issued 9,267 Transfer Certificates of Title.

Fees for the program amounted to \$766,639.00 while conveyance taxes amounted to \$1,037,260.

The number of documents registered generated the transfer of land valued at \$2,076,149,450, or twice as much the value of land transferred during the previous year.

In May 1973, a study to implement data processing in the Regular Registration Branch was initiated by the Department of Budget and Finance. The study, which was completed in March 1974, now provides for the implementation of a computer assisted indexing system in January, 1975.

Water Development (LNR 140)

During the fiscal year the Department either completed or awarded contracts for 23 water projects. \$7.6 million in construction contracts were awarded for water projects, the largest of which is a contract to construct a water development shaft in Kahaluu, Kona on the island of Hawaii. The first phase of this contract will cost about \$1.7 million and will consist of excavating approximately 1100 feet of inclined shaft, a

pump room at the base of the shaft, and about 500 feet of infiltration tunnel. When completed, this will serve as the primary water source for the Kona area. Other major projects include the construction of a 50-million-gallon reservoir on Waikoloa Stream in the South Kohala Mountains on the island of Hawaii. This is the second reservoir of this size to be constructed in this area. Further north at Kehena in the Kohala Mountains a contract was awarded for the construction of diversion works and approximately 3 miles of 16- and 12-inch pipeline. In Kau, on the island of Hawaii, pumps and controls were installed in the deep well drilled in Naalehu last year. This well has been connected to the Naalehu water system and now serves the community in this area.

On Molokai, a diversion structure was constructed at the 750-foot elevation on Waikolu Stream. This development will serve to divert approximately 4 million gallons from the stream to the existing Molokai water system to serve Central and West Molokai. On Maui, construction is continuing for the development of additional water sources and transmission mains to serve the area from Honolulu to Lahaina. A well was drilled at the 700-foot elevation in Kahana Valley to develop an additional source of water for the Lahaina area. In the area of Napili and Alaeloa a 700 gpm pump was installed in the successful well drilled last year at Napili. A million gallon tank was constructed in Alaeloa and approximately 2.1 miles of 12-inch pipeline was laid to connect the Napili Well with the existing systems at Alaeloa.

On Kauai, major source developments which includes installing pumps and connecting pipelines have been made to the Wailua-Kapaa water system and the Koloa-Poipu water system. At Kalaheo, modifications are being made at the water treatment plant to improve the quality of water for this area. Also, wells are being drilled at Kalaheo and Hanapepe in an effort to provide additional water sources for these areas.



Workmen are pouring the concrete walls and floor for the new 50-mg reservoir above Waimea on the Big Island.

SECTION 4

PROGRAMS FOR ECONOMIC DEVELOPMENT

Commercial Fishery—Loans (LNR 151)

The MV BETTY N, a 90-foot, steel-hulled fishing boat is the fourth vessel to be constructed under the Hawaii Fisheries New Vessel Construction Loan Program. The BETTY N, a sister-ship to the MV Mokiha, was also built by the same company, the Martinolich Shipbuilding Corporation, in Tacoma, Washington. The owner of the BETTY N, Mr. Gengo Nabeshima, purchased and equipped this modernized tuna longliner for \$337,500 of which \$270,000 was provided from the Loan Program. With a distant cruising range of 5,200 miles, a refrigerated fish-storage capacity of 70-tons, and many other modern features not possessed by the older vessels of the longline tuna fleet, the BETTY N is a welcome addition to the Hawaiian tuna fishing industry.

Also during the year, the processing of a vessel construction loan application for a 58-foot fiberglass vessel was initiated. This new boat is designed for both netting inshore species such as the *akule* and for long-lining the pelagic tunas.

The four modern vessels built thus far with the assistance of the Loan Program (MV KILAUEA—1969, MV ANELA—1971, MV MOKIHANA—1973, and the BETTY N—1973) continue to impress their prominence among the Hawaiian longline and *aku* fishing fleets.

For example, during the period July, 1973 to April, 1974, the KILAUEA, MOKIHANA and BETTY N together produced 32% of the total of 703,797 pounds of fish landed by the 17 vessels that make up the Hawaiian commercial longline fishery. Over the same period, the ANELA, alone produced 17% of the total 8,279,426 pounds of fish landed by the 16 vessels in the commercial *aku* fishery.

The success of these modern vessels have encouraged other fishermen to consider investments in similarly equipped vessels, and thus numerous requests for information concerning the vessel loan program are being received. The loan fund was increased by \$300,000, appropriated through Act 218, SLH, 1973.

The status of the loan revolving fund as of June 30, 1974 is as follows:

Total funding.....	\$1,200,000
Loan repayments (principal & interest)	140,000
Total receipts.....	\$1,340,000
Loan authorized	1,009,898
Fund balance.....	\$ 330,523



At dedication ceremonies, Acting Governor George Ariyoshi extends congratulations to Skipper Gengo Nabeshima of the MV Betty N.

Forestry—Production and Management Methods Improvement Service (LNR 152)

Cooperative Forest Management is a joint State-Federal program designed to provide assistance to private forest owners. A total of 407 requests were serviced during the fiscal year. Technical assistance consists of such items as: site preparation; tree planting; timber stand improvement; insects and diseases control; fire protection; Norfolk Island Pine Christmas tree marketing; timber inventory; timber procurement; erosion and noxious weed control; recreation; and related environmental concerns with sound timber management.

Unfortunately, many forests in private ownerships are in poor condition as a result of generations of unmanaged use.

Commercial Fishery—Production and Marketing Methods (LNR 153)

Management-oriented biological studies of commercially important fish and shellfish species were carried out under this program to provide information needed for promulgation of laws and regulations and for the management of the resource. In addition, fish catch reports submitted by licensed commercial fishermen were compiled, processed and prepared for tabulation by the IBM punch-card system to facilitate continuing analysis on the determination of the effects of fishing and the status of stocks of fishes.

Available commercial catch records of the *taape*, a shallow water snapper, show that about 5,800 pounds of *taape* valued at about \$2,800 were harvested during the period July, 1973 to April, 1974. The increasing trend in the commercial availability of this species and its ready acceptance as a table fish by the consuming public indicates a hitherto latent but potentially valuable addition to our fishing resource.

Enforcement activities under this program are summarized as follows: patrolled 35,640 miles by vehicle, foot and boat; contacted 4,245 persons engaged in commercial fishing; conducted 7,527 inspections of commercial fishing boats, fish markets, restaurants and peddlers; investigated 10 commercial fishing complaints; and issued 1,146 commercial fishing licenses and permits. A total of 25 citations was issued for commercial fishing violations.

Irrigation Services (LNR 161)

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

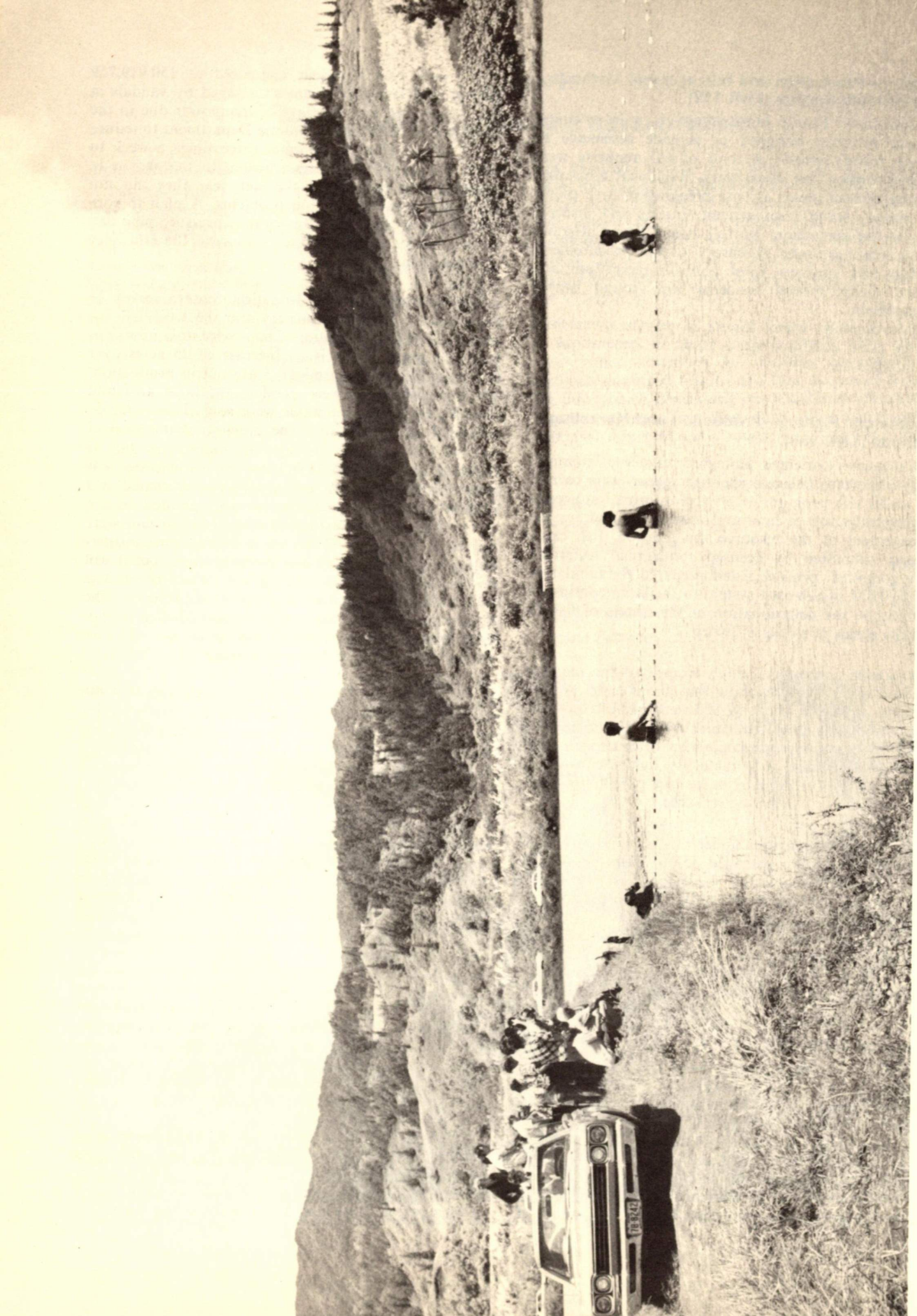
The Waimanalo System serves 95 small farmers and the University of Hawaii Agricultural Experiment Station on 921 acres of State and private farmlots. Weather conditions in Waimanalo were generally wet with rainfall totalling 53.25 inches as compared to 18.86 inches last year. As a result only 100,974,236 gallons of

water were sold this year compared to 150,919,769 gallons sold last year. Flumes damaged by vandals in the source area and shortage of manpower due to the turn-over of personnel forced the Department to reduce water service from the normal three times a week to twice a week. The farmers adjusted to the change in schedule and because of the wet year they did not suffer any great production problems. A plan to convert the open ditch and flumes to a pressure pipe network is under consideration to improve the efficiency of the system.

The Waimea-Lalamilo Irrigation System serves 24 farmlots, the State tree nursery and the University of Hawaii Experiment Station. The service area now contains 232 acres which is an increase of 25 acres over last year. Of the 24 farmlots, 3 are not in production. Weather conditions were good in the farm area and 156,635,260 gallons of water were sold. This is an increase of 11 percent over the previous year's total of 141,042,750 gallons. During the month of July a monthly high total of 24,903,980 gallons of water was sold. Crop production in Lalamilo was estimated at 4 million pounds. Carnations are also planted in the service area and it is estimated that 11,000 dozens were harvested last year. There are 2 farms with considerable protea plantings, a new floral product, but it will be another year before cuttings will be marketed. The total annual rainfall was recorded at 22.15 inches. The highest monthly rainfall of 8.76 inches occurred in January and the records show that there was no rain during the months of July and August.

The Molokai Water System presently serves 9,746 acres, an increase of 1,724 acres over last year's service area. Of this total, 9,505 acres are in pineapple planted by Del Monte Corp. and Dole Corp. The remaining 241 acres are being farmed by Hawaiian homesteaders and private individuals and are in diversified crops. Kaluakoi Corporation has 10 acres which is used as a nursery for trees and grass to be planted in their west end development. It has been announced that the pineapple operation on Molokai will be phased out by 1975. As a result of the gradual phasing out of pineapple plantings, the total water sold for the year has dropped from 608,269,000 gallons to 378,132,000 gallons. (Editor's Note: This phasing out operation has been postponed according to announcements received at printing time.) Construction was completed on the diversion structure on Waikolu Stream at the 750-foot elevation. This diversion structure includes a small dam and pumping facilities capable of pumping approximately 4 million gallons a day into the tunnel. Additional distribution lines were installed to serve the Molokai Task Force lot and the U. S. Soil Conservation Service materials plant center.

The Molokai Task Force has started experimental test plot of 14 acres in alfalfa and 2 acres of tomatoes under greenhouse conditions. The U.S. Soil Conservation Service is establishing a plant material center of 80 acres on State land near the Hoolehua Airport.



Nets have been set for the first commercial prawn harvest at Laie, Oahu. Fish-Farms, Hawaii, is reaping the benefits of the prawn research and development techniques developed by the State.

Commercial Fishery—Product Development (LNR 171)

In July of 1972, a massive oyster mortality decimated about 99% of the estimated 34.6 million American oysters (1971 estimate) in West Loch, Pearl Harbor. Although the cause of the kill has not been determined conclusively, an epizootic is suspected as a result of studies conducted by the U.S. National Marine Fisheries Service's Shellfish Pathology Laboratory at Oxford, Maryland. Scientists at this laboratory found that 52% of the live oyster samples sent to them from West Loch were infected with a fungal parasite similar to *Dermocystidium marinum* which has been implicated in oyster kills on the East and Gulf Coast areas of the mainland. Resurveys conducted over the major oyster beds in West Loch to determine if natural repopulation is occurring show that settings of young oyster spats are occurring.

A study to determine the effects of warm water discharged from an electric power plant located on the shoreline of East Loch, Pearl Harbor on the growth, condition and survival of American oysters was completed during the year. The study was conducted with oysters held in floating trays placed in the water at predetermined distances from the intake and discharge structures of the power plant. Results of the study indicate that oysters grown in the warm discharge waters did not grow, flatten, or survive as well as those placed in the cooler intake waters. A formal report on this study is being prepared.

The Anuenue Fisheries Research Center is internationally recognized as the center of technology for

research in the culture of the giant Malaysian prawn, *Macrobrachium rosenbergii*. Accordingly, the center is utilizing its resources and facilities for: aiding industry through increased production of juvenile prawns, 2,700,000 annually, for distribution to farmers; expert extension and other advisory services to expedite transfer of culture technology to growers; and on-the-job training of personnel from public and private sectors.

Pilot farm operations conducted cooperatively by industry and government for the past four years have resulted in the development of an economically viable fledgling aquaculture industry in Hawaii. Currently, under a cooperative program administered by the Board of Land and Natural Resources there are nine independent prawn farmers who are growing prawns commercially in a total of about 28 acres. Annual production from these farms is expected to reach 85,000 pounds by 1975.

Other research activities, engaged in cooperatively with the University of Hawaii, are (1) development of diagnostic and preventive or treatment methods for prawn diseases, (2) formulation of efficient feeds, (3) mechanization of farming methods, (4) development of processing and marketing methods and (5) development of superior genetic strains of prawns.

Preliminary studies on reproductive physiology of channel catfish and white amur were initiated this year. Should locally produced catfish fingerlings become available, substantial savings will be realized by island catfish farmers, particularly air freight cost, as they are now spending more than \$20,000 annually to buy and fly-in fingerlings from the mainland. At present, environmental manipulation for gonadal development and hormone injections to induce spawning are being tried.



Dr. Ken Kato, President, Fish-Farms, Hawaii, and Takuji Fujimura, Head of the State's Anuenue Fisheries Research Center, are the foremost pioneers in Hawaii's new aquaculture industry.



Fish-Farms, Hawaii, employee unloads a net full of prawns for shipment to the Honolulu market.



A growing stockpile of wood chips at Kawaihae Harbor awaits shipment to the Far East.

Forestry—Products Development (LNR 172)

The Bishop Estate's Kilauea hapuu harvesting project is an important stepping-stone for the state's hapuu, tree fern, industry. Sustained-yield management on hapuu is a relatively new concept, expressed by the Board of Land and Natural Resources, to insure regrowth of hapuu. Selective harvesting, undoubtedly, is the only foreseeable answer to the hapuu management program. The countless backyard anthurium-orchid growers have become dependent on the hapuu products as planting media. Substitute products have failed to provide the necessary desired results. Hapuu harvesting in the Kilauea tract is almost totally dependent on the down and inactive portions. Removal of live fern from the premises is prohibited. Instead, the cut live tops are replanted to rehabilitate the skid trails and exposed areas. The Kilauea project has been in existence for almost two years and the results look very promising.

A hardwood chipping operation has entered the Hawaiian market. This may be the needed impetus for the complete utilization of our timber resource. The Board of Land and Natural Resources authorized the issuance of a timber license to Capitol Wood Chip Company—DG Shelter Products Company, Wood Chip Division, covering the harvesting and removal of bluegum eucalyptus on 1200 acres in the Hamakua District of Hawaii. The licensee may harvest and remove the balance of any standing timber plus harvestable regrowth timber in the working circle.

The Hawaiian Timber Products, Inc., is still plagued with seasoning and marketing problems of *Eucalyptus*

robusta. To make their operation viable, they are experimenting with complete utilization of the *Eucalyptus robusta*. In cooperation with University of Hawaii Extension Service, studies are being conducted to use the thick bark as a growing media for the flower industry, and portions not being utilized for lumber are being processed as wood chips.

There are few koa trees remaining in Hawaii forests of the type best suited for conversion into useful products. Such trees have large diameters, long straight, branch-free stems that have not been damaged by decay, and wood of a rich dark reddish-brown color. These are the type of trees from which koa canoes are made. The best logs for producing lumber of veneer come from such trees. Mature trees that have genetic potential to reproduce these desirable characteristics are now being located, evaluated, and propagated to preserve the gene pool and perhaps eventually to breed still bigger and better trees. So far 38 trees on the Big Island and 6 on Kauai have met the stringent, desirable selection criteria. Seed is being collected from these trees when available. In addition, various vegetative propagation techniques are being developed to increase the number of these very desirable trees. Koa are easily grown from seed; however, control pollination remains to be a major problem. Therefore, since trees that are genetically identical are desired, they must be cloned where many individuals are propagated from a single parent tree. Many propagating methods have been tested such as cuttings, layering, grafting and tissue culture; however, the most promising method at the present time consists of air laying the juvenile sprouts from stems and roots.



Wood chipping operations in Upper Hamakua, Hawaii. Bluegum eucalyptus is logged, then fed into the chopping machine shown here.



BEFORE

In 1970, after complaints by the public, a request was made to the Department from the Department of Agriculture for assistance in beautification of the Kamuela Vacuum-Cooling Plant. Under Nurseryman Masayoshi Takaoka's guidance and with pine trees donated by Parker Ranch, an eyesore is becoming a picturesque countryside scene.

AFTER





Waialeale—A Joint Venture. Since September 1973, the department, working jointly with the Hawaii Motorsports Association, has made an off-road riding area at Waialeale available to Oahu motorcyclists. The area is leased to the military as a training area. However, the State reserved recreation rights for non-use days: week-ends and national holidays. Together, the cyclists and the department's forestry staff developed a 5 mile trail, a mini-bike course and a highly popular moto-cross track in a 430-acre parcel. Under special arrangement, management of the site is assigned to the Hawaii Motorsports Association, a non-profit organization which represents the motorcycle enthusiasts on Oahu. This highly successful project promises to be the forerunner of similar courses on the neighbor islands.



Moto-X riders at the starting line.

SECTION 5

PROGRAMS FOR PROTECTION OF THE ENVIRONMENT

Fish and Wildlife (LNR 401)

Issuance of Aquarium Fish Permits which authorize the use of fine meshed traps and nets, ordinarily prohibited, for the taking of live fish for aquarium purposes confers a special privilege to people who are engaged in recreational and/or commercial saltwater aquarium fish collecting and rearing activities. In recent years, the number of permits issued has increased greatly and numerous complaints have been received alleging that the removal of live fish, particularly by commercial aquarium fish collectors, is depleting our reefs of colorful fishes. An investigation was initiated whereby public meetings were held to gather information from the general public. Subsequently, where only commercial collectors were previously required to submit monthly fish catch reports, all persons with an Aquarium Fish Permit are now required to submit detailed aquarium fish catch reports on a monthly basis. The data gathered are being continuously entered into the Hawaii Coastal Zone Data Bank at the University of Hawaii and analyzed to determine the effects of the aquarium fish collecting activities. The results of the investigation will form the basis for the formulation of management decisions to assure wise utilization of our marine reef fish resource.

Based on the genuine concern expressed by the public and many scientists regarding the status of the three species of marine turtles occurring in Hawaiian waters, Regulation 36 Relating to the Protection of Marine Turtles was adopted by the Board of Land and Natural Resources in April, 1974. In essence, Regulation 36 prohibits the taking or sale of leatherback and hawksbill turtles and thereby conforms with federal laws in providing total protection for these two endangered species. Green sea turtles, on the other hand, are banned from sale but may be taken for home consumption provided that a permit is first obtained from the Board of Land and Natural Resources and the turtles are 36 inches or larger in carapace length (straight line measurement). The taking of green sea turtles with nets is prohibited. The regulation also allows the sale of farm raised marine turtles that are offsprings of captive stock and the sale of marine turtle products acquired prior to the effective date of this regulation through a permit issued by the Board.

In order to gather information on turtles harvested for home consumption, permittees are required to submit a monthly catch report to the Division. Commercial permittees are similarly required to submit a monthly inventory report of their marine turtle products.

A total of 112 project proposals in the form of Conservation District Use Applications, U.S. Army Corps of Engineers Public Notices, Draft Environmental Impact Statements, Animal Introductions and/or various reports that indicated a potential impact to our

marine life, habitat, and fishery values were evaluated during the year. Noteworthy examples are the underwater surveys made for the Sand Island Sewer Treatment Plant Offshore discharge outfall project on Oahu, and for the proposed sand mining experiment in Kona, Hawaii.

The *nene* restoration project completed its 25th year of operation with the production of 134 goslings at Pohakuloa on Hawaii, the 2nd highest total of birds reared since its inception in 1949. One hundred and twenty-three *nene* were released on the island of Hawaii during the year. The total liberated since the project began now stands at 1,317. Of this total, 926 have been released at sanctuaries on Hawaii and 391 in Haleakala Crater on Maui. Of encouraging note was the recording of several successful nesting attempts by released *nene* on Maui. On Hawaii a new area, the Kipuka Ainahou Nene Sanctuary, was set aside through regulation for the conservation, management, and protection of this endangered species. The U.S. Fish and Wildlife Service through a grant of \$25,000 continued to contribute to the support of this program.

Efforts to re-establish the endangered Hawaiian duck on the islands of Hawaii and Oahu continued with the release of 48 *koloa* at Kohala on Hawaii and four at the Kaneohe Marine Corps Air Station on Oahu. Reports from the field indicated that a small nucleus of *koloa* is maintaining itself at the Kohala release site.

The Paiko Lagoon Wildlife Sanctuary was established at Kuliouou on Oahu for the management and protection of indigenous species including the endangered Hawaiian stilt and migratory shorebirds. This action, long sought by conservation groups, represents a forward step in the development of the site as a wildlife sanctuary and park for future generations.

Field trips to accommodate visiting scientists conducting studies of seabirds on offshore islets which are part of the Department's wildlife refuge system were made during the year. In addition, a wildlife biologist assisted the U.S. Fish and Wildlife Service in a survey trip to the Hawaiian Islands National Wildlife Refuge in July and inspected Kure atoll which is managed as a State refuge.

After a long delay, construction work began at the Kanaha Pond Wildlife Refuge on Maui to preserve and enhance this vital habitat for endangered waterbirds. Developments include the creation of small nesting islets, a moat around the sanctuary, water control structures, pump, and a new visitor observation building.

Four expeditions to the Hana and Koolau Forest Reserves on the island of Maui were made with scientists of the International Biological Program of the



Department personnel trek across Haleakala Crater, Maui, on way to Paliku to check upon the nene survival in the wild.

University of Hawaii to continue research on the rare endemic forest birds. During these studies a genus of Hawaiian bird previously unknown to science was discovered and Department personnel assisted in the collection and classification of this historic find.

In concert with the U.S. Fish and Wildlife Service, a brochure entitled "Hawaii's Endangered Forest Birds" was produced for distribution to the public. This booklet describes the plight of several of our endemic songbirds and makes recommendations for research, propagation, and habitat acquisition programs.

In an effort to determine the status and distribution of

the endangered *alala* or Hawaiian crow on State lands, the department engaged the services of a collaborator to conduct surveys in the Kona and Kau areas of the island of Hawaii. Information gathered during this study will be used to devise action programs to enhance the *alala's* chances of survival as a species.

Enforcement activities under this program are summarized as follows: patrolled 29,700 miles by vehicle, foot and boat; contacted 3,532 persons; conducted 453 inspections of boats and personal equipment; and investigated 46 complaints. A total of 13 citations was issued under this program.



A ten-week old Hawaiian stilt lies helpless on the edge of Kanaha Pond. Dredging operations to construct a moat around the stilt nesting areas is a key to their survival from predators.



A dredging machine hauls dirt and silt to form a protective moat around the stilt nesting areas at Kanaha Pond.

Forests and Open Space (LNR 402)

Reflecting the present environmental concern, a new ten-year forest management plan is being prepared in collaboration with the United States Forest Service, Division of State and Private Forestry, Region 5. This new forest management plan is a sincere effort to meet current demands and expected future needs of our forest resources. The program is developed on new statement of policies for the management and development of our forest resources. In addition, it gives direction for promoting forestry practices on private forest lands.

A detailed study of the location, severity and rate of spread of the *ohia* forest decline on the Big Island has been completed. Aerial photographs of a 197,000-acre area, containing the main concentration of declining forest, were the basis of the cooperative examination by the Division of Forestry and U. S. Forest Service. The resulting facts are grim. The area of healthy, or unaffected forest, decreased in acreage from 75,500 acres to 32,500 acres in 18 years, while the area of forest with extremely heavy tree death increased from 300 acres to 85,200 acres in the same period. The acreage of native forest suffering severe decline is increasing at the rate of 6,500 acres per year. The decline occurs in all ages of forests, in varying rainfall belts, and on different soil types. Ground and aerial reconnaissance on other islands have failed to reveal forest devastation such as that found in Hawaii. Generally,

the pattern on the other islands is one of widely scattered groups of trees or single trees affected by some form of decline. U. S. Forest Service-funded cooperative studies with the Bishop Museum and the University of Hawaii are continuing. Thus far, no single cause for the decline has been found. Studies are being developed to determine the vegetational succession in decimated forest areas.

An entomologist was added to the forestry staff through a cooperative agreement with the Federal government in June to tackle forest problems resulting from insects, disease organisms and noxious weeds. Currently there are three accidentally introduced insects, the Eurasian pine aphid, the black twig borer, and the acacia psyllid that have invaded our forests. In addition, needle cast disease has spread on Molokai. The third class of forest pests include noxious weeds of which banana poka appears to be the most serious. These forest pests constitute a threat to our forest resources.

The Eurasian pine aphid was initially discovered on Hawaii in April 1970 and has subsequently spread to Oahu and Maui. Attempts to eradicate the pine aphid on Maui at the Waihou Spring Forest Reserve were aborted due to intense public concern over the aerial application of a pesticide, Diazinon AG-500. Pine trees are readily killed by heavy aphid infestations, while moderate infestations can weaken trees to a point where they become vulnerable to other insects and diseases. To alleviate the pest problem in our infested

pine stands, a costly and time-consuming hand spray program is planned for interim control. Biological control will be investigated as a long-range solution.

The acacia psyllid was first detected on Oahu in 1966 and has now been recovered from all the islands except Molokai. This sap-sucking insect is a pest of native *koa* and feeds primarily on the new terminal growth causing terminal die-back, growth retardation, and general weakening of the trees. In addition, the acacia psyllid was found to be a possible mechanical vector of the *koa* rust fungal disease. During the past year, two ladybird beetle predators were propagated by the State Department of Agriculture and were released on Hawaii in cooperation with the University of Hawaii Entomology Department. These releases were made at the Koaia Sanctuary at Kamuela and along the Mauna Loa Strip Road in the Hawaii Volcano National Park. Thus far, only one beetle, *H. conformis*, is established at the Koaia Sanctuary.

The needle cast disease has created another problem in our pine stands. Substantial acreage of monterey and cluster pines have been killed by this disease on Molokai. It appears that these pine species are most susceptible to the fungus than the others. In addition, previous drought conditions may have been a primary factor leading to lowering the resistance of these trees to the needle cast fungus.

Among the many noxious weeds invading our forest, banana poka has been a problem in the *koa* and *ohia* forests of Hawaii. It debilitates *koa* trees by covering the entire canopy, thus preventing the tree access to sunlight for the vital process of photosynthesis. Moreover, the banana poka vines exert appreciable weight on *koa* branches which make them vulnerable to breakage during storms. Resulting breaks create open wounds that enable insects and disease organisms an easy mode of entry. Curtailing the spread of banana poka is a difficult task since wild pigs play a major role in disseminating the seeds via their digestive tract. Attempts to control this weed with biological control agents pose a difficult problem because of the other desirable poka species.

Artificial reforestation with the native *koa* tree was considered infeasible a few years ago. But now, a new reforestation system, adapted from mainland practices by the U. S. Forest Service, results in *koa* seedlings which can survive and initiate rapid growth after planting. This new system uses the British Columbia/Canadian Forestry Service Styroblock, one of the modern seedling production containers. The BC/CFS Styroblock provides for efficient and economical production of hardy seedlings that are easily transported and planted. Test plantings of *koa* in the Hamakua and Kilauea Forest Reserves resulted in over 90 per cent survival, no seedling dieback, and rapid early growth.

Forest fire control and protection activities on 1,200,000 acres of State and private forest lands are administered by the department.

During fiscal year 1973-1974, we responded to 50 fires that burned a total of 4,183 acres of forest, brush and grasslands. Most of these fires are man caused; one was caused by volcanic activity.

On July 13, 1974, at Puuanahulu, Hawaii, a 15 mph wind drove a mile wide front across 2,300 acres of native, dryland forest and, for a time, threatened the village of Puuanahulu. The combination of five months of drought and strong winds made the fire difficult to control and dangerous to fight.

The Hawaii fire danger rating system now has the capability to automatically record daily weather data and calculated fire danger index values from each fire weather station on magnetic tape. As this data file is built up, it will provide a sound basis for analyzing fire weather at various locations and provide advance warning.

Portions of the mamani forest of Mauna Kea, home for the Palila, a rare and endangered native bird, are in poor condition. One goal of the cooperative research program with the U. S. Forest Service is to find means of regenerating and maintaining the mamani forest. Direct sowing of treated mamani seed has provided clues about seed germination requirements and factors affecting initial survival of seedlings. The hard seed coat must be scarified or treated with sulfuric acid to aid germination. Hot water treatment reduced germination below levels obtained with untreated seed. Seeds sown 1.5 inches below ground had the greatest germination while those sown on the soil surface did not germinate. Moisture and temperature in the high, harsh environment of Mauna Kea have critical importance in germination and initial seedling survival. Frost and cutworms may be the cause of some seedlings deaths, however resprouting of top-killed seedlings is not uncommon. Seedling survival averaged 70 percent 13 weeks after sowing.

Environmental conditions on many thousands of acres of land in Hawaii have been changed radically by man's activities. The Department is cooperating with the U. S. Forest Service to identify tree species most suitable for planting on these modified environments. Although native trees collectively serve as invaluable protection forests, and are ideal for ecological studies, only a few species have proven satisfactory for either reforestation programs or urban beautification. Hawaiian species have no superior adaptive characteristics when planted on sites radically altered by erosion, fire, cultivation, or other destructive agents. On such areas trees from other countries often are better adapted. Planting trials of both native and exotic species, established during the last ten years, are providing useful information, as shown by work in progress at two locations on the island of Kahoolawe and Oahu.

Conservation efforts on Kahoolawe have produced both success and failure. Many species of trees, shrubs, and grasses have been planted on the island since 1970. Only the most drought-hardy plants have survived on this windswept island, where little or no topsoil remains. Ironwoods and tamarisk have proved to be very satisfactory. Growth of the ironwoods ranged from 8 to 18 feet in four years. In time these trees will provide protection for other native species planted there. Several species of grass have made excellent growth; pangola grass has been outstanding. The department is supported in this work by the U. S. Forest Service, Soil Conservation Service, and the Navy.



Not Death Valley, but Kahoolawe Island.



The grim evidence of wind erosion due to lack of ground cover on Kahoolawe Island.



Lack of a conservation program on Kahoolawe Island leads to severe rain erosion.

In the Waianae District of Oahu many acres of barren land require reforestation. Trees that would add to the natural beauty of the area, and control erosion. Experimental plantings at the Lualualei Naval Magazine site include species that appear promising for roadside beautification, erosion control, craftwood, and brush control. Included here are milo, ombu, implexa, alerce, and river redgum.

The Natural Areas Reserve system created in 1969, effectuated the establishment of only two natural areas through action of its Commission. These natural areas —Ahihi-Kinau (Maui) was established on August 1973 and Waiakea 1942 Lava Flow (Hawaii) was established on March 1974. The former encompasses some 2,000 acres featuring both xeric conditions with developing rain forests over some 640 acres.

In 1970 the Department of Land and Natural Resources proposed many sites under its jurisdiction for inclusion in the Natural Area Reserve system throughout the island chain, each with its unique physical environment and accompanying biota. By islands and corresponding acreages, they are as follows:

- Hawaii (72,724 acres)
- Maui (6,923 acres)
- Molokai (4,215 acres)
- Oahu (3,581 acres)
- Kauai (16,339 acres)

However, the Natural Areas Commission has been painfully slow in designating these sites.

Inland Waters (LNR 404)

Major activity under this program is the work being performed in cooperation with the U. S. Water Resources Council. The Department has been designated by the Governor as the State water agency, and the U.S. Water Resources Council is working closely with the Department in three major areas: (1) the Hawaii Water Resources Regional Study, (2) the 1975 National Water Assessment, and (3) the Statewide Comprehensive Water Resources Plan which includes the training of professional engineers to maintain comprehensive water and related resources plans.

The Hawaii Water Resources Regional Study is being directed by Manabu Tagomori and assisted by representatives from the U. S. Departments of Agriculture, Army, and Interior. The plan is considering needs, problems, and opportunities involving water and related land resources at both State and local levels. The primary target period for the plan is the decade from 1990 to 2000. The Regional Plan is being developed primarily on reliable available information and it has enlisted the help of about 25 Federal agencies and 35 State and County agencies, as well as numerous private entities and the public in general. Sixteen study teams have been organized and are working cooperatively on the study. The goal of the combined efforts of engineers, hydrologists, geologists, economists, foresters, soil conservationists, and many other specialists is to develop a water resources plan for Hawaii. The State Legislature has appropriated a total of \$895,000 for the study. The Federal Government received Congressional appropriations of

\$200,000 in 1973, \$500,000 in 1974, and anticipates additional Congressional appropriations of \$500,000 in each of the next two years.

For its participation in the 1975 National Water Assessment, the Department this year received \$2,000 from the U. S. Water Resources Council and anticipates an additional \$43,000 to cover the cost of providing assessment information to a committee who is analyzing the nation's problems on a national scale.

For the Statewide comprehensive water resources planning work, the U. S. Water Resources Council provided \$52,600 in matching funds to enable the Department to continue its comprehensive water resources planning efforts.

The Department also has a cooperative agreement with the U. S. Geological Survey for water resources investigations. Streamflow data is being collected from 86 continuous recording streamflow stations and 67 peak flow stations operated and maintained by the USGS. In addition, periodic low flow discharge measurements were made at 18 sites. The records obtained for the continuous record stations and low flow measuring sites were analyzed and published for the 1972 water year (October 1 to September 30) in a report "Water Resources Data for Hawaii and Other Pacific Areas". The analysis of 1973 water year record was completed and the report was prepared for publication. However, printing will not be completed until July 1974. The peak flow data for 1973 water year were computed and published in progress report No. 16, "An Investigation of Floods in Hawaii Through September 1973", in January 1974. In the aftermath of the disastrous flood of April 1974, indirect measurements of peak flows were made on four ungaged streams in the Moanalua-Fort Shafter area.

Also under this program, the Department drilled six wells to explore and develop new ground water sources of supply. Three of the wells have been completed and three are still under construction.

On the island of Kauai, Kilohana Well located near Lihue was successfully completed and tested at the rate of 1/2 million gallons per day. Plans are already underway to develop this new source of supply to serve the Lihue water system. Wells are being drilled in Hanapepe and Kalaheo to explore sources of water for those communities. At Moloaa, a well is being drilled to develop a new source of irrigation water for diversified agriculture.

On the island of Maui, a well was successfully tested and found capable of producing 1 million gallons per day of high level dike water near Kepaniwai Park in Iao Valley. This well will provide a much needed additional source for the Wailuku-Kahului water system. Another well drilled and tested at Waikapu shows the capacity to be about 3/4 million gallons per day. This well produces fresh water from an alluvial aquifer that surprisingly extends more than 500 feet below sea level.

Administration (LNR 906)

The workload increase from the administration of the 5 union contracts was less than expected. The Hawaii Occupational Safety and Health Law and the extension of the Federal Fair Labor Standards Act covering State employees effective May 1, 1974 have placed additional administrative responsibility on this office to coordinate the activities regarding these two laws.

The Fiscal Office completed plans for a new electronic bookkeeping system to facilitate billing, collections, and reporting. This machine will also provide greater flexibility for reports now being done manually. This revised system will aid Division Chiefs and program managers since most reports will be generated promptly after each month. We will be able to provide various statistical reports not now available, including cost analysis necessary for Federal fund reimbursement.

The processing of Conservation District applications continued to be heavy. Enforcement of the Conservation District regulations encountered difficulty when it was found that only foresters and rangers had police powers. Legislation to amend Conservation statutes was submitted by the Administration but was not passed by the Legislature. Following up on work by consultants, a draft to revise Regulation No. 4 was taken to public hearings. Following the hearings, a new draft was prepared.

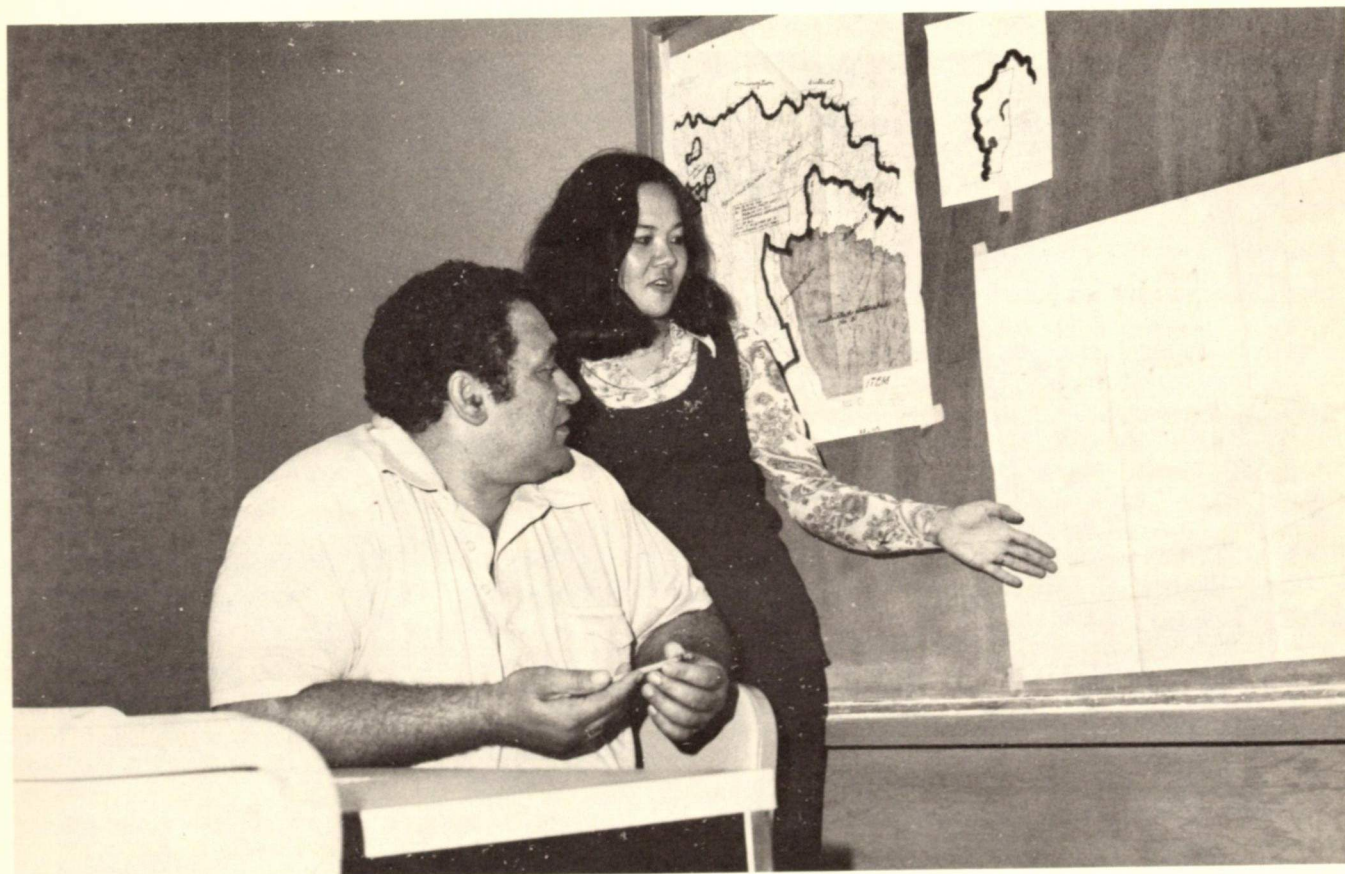
The Department provides administrative assistance

to the 15 Soil and Water Conservation Districts (SWCD) in the State. Each District, governed by 5 directors, plans and establishes cooperative action programs for the conservation, development, and management of water and soil resources within their district. The SWCD also volunteer their services on matters pertaining to the Department's Regulation 4, which relates to conservation districts.

The Department worked very closely with the SWCD in the evaluation and determination of a need for a State law relating to soil erosion and sediment control. Meetings were held throughout the State to discuss this matter and, under a special committee which included the SWCD directors as well as State officials, a bill, the Soil Erosion and Sediment Control Bill, was drafted and introduced in the 1974 Legislature. It passed and became law, Act 249.

During the year, Oahu Board members Newton Miyagi and George Yamaki, whose terms had expired, were replaced. Moses Kealoha and Shinichi Nakagawa succeeded them. Michiki Adachi, Division Chief for Conveyances, retired in December 1973 after 31 years of service. Others who retired during the past year were:

Name	Years of Service
Kaliko N. Akee	32 years
Frank A. Pavao	25 years
Ah Pat Chun	35 years
Kazuo Tamura	36 years



Esther Ueda, departmental planner, points out conservation needs to Board member, Larry Mehau, at a public hearing.



Heather Miura



Karen Kukona



Summer students at Waahila State Park

SUMMER HELP. A most popular program in the department is the summer student employment. Over 200 jobs are available annually to students 16 years or older. For many, this is an opportunity to earn money to further their education. For some, it's their introduction to the career they have chosen. This is especially true of college students enrolled in engineering, forestry, wildlife, fishery, planning or business courses. For the regular employees, these summer students provide extra help to catch up work and a time to match their old skills with youngsters possessing new and challenging ideas.

The Division of Water and Land Development was selected as the recipient of the 1973 Government Professional Development Award by the Hawaii Society of Professional Engineers. This award is presented each year to a government agency for its outstanding record of achievement and its advancement of the engineering profession. The winner of this award was determined by a point ranking system developed by the National Society of Professional Engineers and Hawaii's winner was submitted for consideration for a National award. The award committee noted a number of areas of professional employment in which DOWALD showed particular strength, notably in the fields of professional engineer registration and engineering management communications. The committee noted that these two are very important to an over-all professional employment environment and DOWALD was commended for its efforts and its accomplishments in this area.

Daniel Lum, geologist-hydrologist from DOWALD, was nominated as one of seven State employees for

the coveted Governor's Award for Distinguished State Service, in 1973, the highest honor available to any of the State's 30,000 employees. Lum, head of the Hydrogeology Section of the Water Resources and Flood Control Branch, is responsible for the complex hydrogeological and geological investigations required in the Department's water resources and minerals program. The winner of the award was a Department of Transportation employee.

Takuji Fujimura, an Aquatic Biologist assigned to the Anuenue Fisheries Research Center on Sand Island received the 1973 Wildlife Officer of the Year Award from the Shikar-Safari Club International. Fujimura is recognized as the world's foremost authority on the culture of the Malaysian prawn. As the leading authority in the technology of freshwater prawn culture, he is continuously being asked to provide technical and consulting assistance to others throughout the world. His aquacultural achievements have resulted in assignments with the United Nations. He has journeyed to Mauritius in the Indian Ocean twice to start a prawn aquaculture industry.

Mauna Kea with snow cap peaks. Observatories of international repute are being constructed or proposed for the summit of Mauna Kea, purported to be among the finest in the world for astronomy purposes.

The University of Hawaii observatory on Mauna Kea which houses an 88-inch telescope.



Significant events for the year included:

Water Rights

The Hawaii State Supreme Court recently ruled on surface water rights dispute between McBryde and Olokele sugar companies in the Hanapepe Valley on Kauai. The State interceded in the case in which the two plantations disagreed over how much water each was entitled to at Hanapepe. The State Supreme Court reviewed a lower court finding and ruled that the State owns all the surface water not needed by any land owner for lands within a watershed. The ruling has also said that waters cannot be transported out of the watershed. This landmark case was appealed to the U. S. Supreme Court, but that body has refused to review the case.

Mauna Kea

The scientific development of the Mauna Kea peaks is under careful study. Mauna Kea possesses astronomical advantages that make it one of the world's best sites for such purposes. However, other values—histori-

cal, recreation and preservation—are being worked into the over-all management plans for the mountain.

Mining of Beach Sand

Still unresolved is the Papohaku Beach Sand mining case on Molokai. At issue are land court boundaries and possible unauthorized conservation district use, a complex legal problem that will undoubtedly clarify the State's jurisdiction and authority in sensitive coastal zones.

Board Authority Over Executive Order Lands

A legal challenge to the Board of Land and Natural Resource's authority to dispose of executive order lands for purposes other than those for which the lands were set aside led to a Supreme Court decision that the Board, in fact, had no such right. This authority of the Board was restated and clarified by Act 16, SLH 1974, giving the Board clear authority to make dispositions of executive order lands not immediately needed for the purposes of the executive order, but subject to withdrawal of the lands so disposed when they are needed for the purposes of the executive order.



Dan Aoki, Governor's Administrative Assistant, accepts signed lease documents from officials of the Waimanalo Residents Housing Development Corporation. Approximately 25 acres of residential lands at Waimanalo, presently occupied by substandard houses of plantation days vintage, were leased to a corporation formed by the residents themselves. With limited government help and a whole lot of local residents' involvement, homes designed to meet the particular desires of the residents at low cost is the objective. Looking on is Rep. Jann Yuen.

PROGRAMS FOR LEISURE TIME

Historical and Archaeological Places (LNR 801)

Historical places currently maintained by the department include the following:

1. Iolani Palace State Monument (Oahu)
2. Russian Fort (Kauai)
3. Hikiau Heiau Historic Site Monument (Hawaii)
4. Royal Mausoleum State Monument (Oahu)
5. State Capitol grounds (Oahu)
6. Washington Place (Governor's Mansion) State Monument (Oahu)
7. Halekii-Pihana Heiau State Monument (Oahu)
8. Puu O Mahuka Heiau State Monument (Oahu)
9. Ulu Po Heiau State Monument (Oahu)

The impending United States Bicentennial celebration has generated considerable interest on the State's historic preservation program.

Heavy construction work on America's only royal palace, Iolani Palace, has been the major focus of the Phase IV restoration contract between the department and the Friends of Iolani Palace. This included major

attic and reroofing work, and reconstruction of the cupola skylight. Most of the historical light fixtures have also been purchased. The outside mauka and makai stairs were rebuilt and water proofing was applied to the moat to insure a dry basement. Archaeological supervision and research as the moat work progressed turned up two refuse pits containing many artifacts associated with the Palace as well as information that there had been three earlier roads, one on top of another. The in-house craftsmen continued restoring and repairing the doors, paneling, window frames and other millwork. Architectural restoration drawings have been completed, and plans for remodeling the adjacent Kana'ina Building for future use as an orientation center for the Palace complex have been developed. Restoration is being stepped up to feature the Palace during the U.S. Bicentennial year, 1976.

Through a grant from the U.S. Bicentennial Commission, the conservation needs of approximately forty paintings, which will be displayed in the restored Iolani Palace, were evaluated. These paintings, including portraits of Hawaiian royalty and European monarchs, and

Iolani Palace restoration work is stepped up to meet the U.S. Bi-Centennial celebration. Air conditioning duct openings are cut in the dining room wall to conceal diffusers being restored in the window frames.





Workmen at Iolani Palace carefully dismantle and remove one of the original Davenport pier mirrors for safe keeping while restoration proceeds.

These exact and handsome reproductions of the original Iolani Palace lighting fixtures were installed early this year.



dating from the 1820s to the 1890s, were found to be in an "advanced state of decay and disrepair." First aid emergency treatment will be given to put the whole collection in shape for display, to be followed by a program of full laboratory restoration extending over a period of several years. A grant has been requested from the National Endowment for the Arts to assist in carrying out the program.

At our invitation, a National Park Service archaeological stabilization team visited Russian Fort Elizabeth, a reminder of Russian presence during the 1800's. After inspecting the ruins, the team recommended development of a cultural resources management plan. They considered the plan for stabilization as an integral part of the overall plan for management of this resource. Scientific excavations in and around the wall need to take place prior to the incremental stabilization of wall sections over an estimated six-year period.

Kealakekua Bay Historical Park will play an important part in the 1979 Bicentennial, commemorating Captain Cook's death at the bay. Research work was begun on a bibliography covering the first contact of Captain Cook through later visits of foreigners and the general changes to the bay up to the death of Kamehameha I in 1819.

Kealakekua Bay has exceptional research potential for documenting Hawaiian culture at the time of and prior to its first sustained contact with Western culture and for preserving a large number and variety of structural remains. At the time of Cook's visit, Kealakekua Bay was the home of Kalaniopuu, the major alii of his court and of important priests who lived around the pond next to Hikiau Heiau, and it was also the gathering place of a large number of commoners. The Bay became one of the most important trading places for visiting ships. Compilation of written and pictorial descriptions, particularly of the scientific expeditions of the British, French and Russians, when related to the structural remains through archaeological investigation, can develop information of the quality and rate of change in Hawaiian culture in the crucial transition period following contact. Land acquisition on the Kaa-waloa side of the Bay has continued and land appraisal for the Napoopoo site was initiated.

Approximately 20 former employees of Kohala Sugar Company, now phasing out its operations, have been employed in clearing the new Lapakahi State Park, and assisting archaeological crews in their investigation, excavation, stabilization and restoration of archaeological sites. This park, currently in its first increment of development, is designed to protect the physical remains of the relatively intact land division (*ahupua'a*) of Lapakahi, which has one of the best preserved examples of a Hawaiian fishing village and an agricultural field system, and to interpret these values as educational resources. The U.S. Department of Commerce, Economic Development Administration is assisting this project with a grant of \$400,000.

New recommended legislation on historic preservation at the National level and a request from a Hawaii

legislative committee prompted review of this State's laws on preservation. The department, interested historical organizations and legislators are jointly seeking improvement to existing legislation.

Work on the Hawaii Statewide Inventory of historic and archaeological sites continued. The Bernice P. Bishop Museum, contracted for the survey in May, 1973, carried out historic sites surveys on Hawaii, Maui, Molokai, and Lanai. The Archaeological Research Center Hawaii carried out archaeological surveys on the island of Kauai. The Hawaii Register staff, while supervising these contracts, also carried out historic sites survey work on Oahu.

As a result of these surveys, the Hawaii Historic Places Review Board added 197 sites to the Hawaii Register of Historic Places during the year. Of this number, 22 were recommended for inclusion on the National Register of Historic Places. (See appendix.)

Volumes II and III of the interim Historic Preservation Plan were submitted to the National Register. The final Hawaii Historic Preservation Plan will be completed and submitted to the National Register one year after completion of Phase I of the Statewide Survey, probably January 1, 1975.

Hawaii's participation in the federal grants-in-aid program administered by the National Register showed a dramatic increase over last year. This year, 26 historic preservation projects were eligible for federal grants on a matching basis, compared to 4 last year. In terms of dollars, Hawaii is eligible to receive a possible \$4,806,000 in federal grants, compared to \$325,000 last year, an increase of \$4,481,000.

Arboreta (LNR 802)

There are a total of 135 acres of State-managed arboreta. One of the more unique exhibits is the Keanae Arboretum on Maui. This arboretum features tropical plants, sections of Hawaiian domestic plants and wetland native species. Included in the Hawaiian domestic plant section are 32 varieties of native taro, 10 varieties of Hawaiian bananas, 17 varieties of native sugar cane and 10 medicinal and fiber producing plants. In the uplands above the arboretum, part of a 40-acre native tree planting area, four acres of native medicinal, fiber, dye, and food plants common to the Hawaiian culture are featured.

Another arboretum rapidly gaining popularity is the Keahua Forestry Arboretum on Kauai. Eight years ago this site was a tangled hau jungle; it has now been transformed into an enjoyable streamside conservation classroom. The East Kauai Soil and Water Conservation District directors recognized the educational and aesthetic values of the area and actively participated in this project. The directors have donated time and money in constructing a nature trail and printing a leaflet guide.

The most visited arboretum is the Hilo Nursery. The 20 acres of rare exotic fruit and ornamental plantings are regularly visited by students, local residents and tourists.



Michele Won displays a lei of fragrant maile. Successful planting of maile for commercial use has been carried out by the department.

Other Natural Features (LNR 803)

The first increment of site improvement and landscaping work was completed at the Nuuanu Pali State Park. Additional work of paving a bus parking area, landscaping, construction of walkways and installation of lighting fixtures remains to be done at this popular scenic lookout.

An interpretive display kiosk depicting common marine life and information for swimmers was installed at the Hanauma Bay State Underwater Park. Preparations have also been made for installing three marker buoys within the bay to serve as reference points for divers enjoying the colorful reef and animals in the underwater park.

The Fern Grotto area, reached only by boat, is one of the major visitor attractions of the Wailua River State Park on the island of Kauai. A new boat landing was constructed for the convenience and safety of tour boat passengers. The new landing replaced a temporary makeshift mooring.

Other parks under this program include:

1. Iao Valley State Park
2. Wailuku River State Park
3. Lava Tree State Monument
4. Akaka Falls State Park
5. Diamond Head State Monument
6. Waimea Canyon State Park

Other Inland-Based Outdoor Activities (LNR 804)

Thirteen parks having a total of 281 developed acres are included under this program. In addition, planning has been initiated or completed for development of five new parks. These are:

1. Wahiawa Fresh Water Park
2. Makiki-Tantalus State Park
3. Wahiawa Mauka State Recreation Area
4. Makua-Kaena Point State Park
5. Kahana Valley State Park

Accomplishments this year include the following:

Plans for the second development phase at Kalopa State Recreation Area were completed. Under this phase, two cabins and a comfort station will be constructed and a tent camping site will be cleared at this forest retreat near Honokaa, Hawaii.

Plans for the incremental development of the Wailoa River State Recreation Area were completed. Proposed improvements for this park include paved walkways with lighting to expand night usage, construction of a comfort station, and repairs to existing buildings.

The program presented by the Wailoa Center significantly contributed to increased and stimulated public awareness and appreciation for the diversity and uniqueness of the history, arts, sciences and ethnic traditions of the Big Island. This success was evidenced by the many favorable comments received and the more than doubling of visitations from 17,000 in 1972 to 35,000 in 1973. The Center presented a total of nine cultural programs and art exhibits such as the Cultures of the Portuguese and Hawaii's Monarchs. The Wailoa



A permanent, informative display of common marine life and underwater features was erected at the Hanauma Bay State Underwater Park. The kiosk is located in the City and County park pavilion.

Center Advisory Committee contributed to the overall accomplishments of the Center, particularly in planning the programs and exhibits.

Approximately 1/2 acre of land was purchased and an additional 1.4 acres of land was condemned at Kalapana, Hawaii for a future park.

On Maui, a restroom was constructed at the Kaumaha State Wayside, and plans were prepared for the construction of a combination office/storage building at Waianapanapa State Park.

A consultant contract was prepared jointly with the Department of Transportation for the proposed Makua-Kaena Point State Park on Oahu. This contract will provide for preparation of a conceptual plan, and master plan for the coastal areas and detailed plans for the first phase of construction. It should be noted that the coastal areas of this park fall under program LNR 805.

Recreation in Hawaii has traditionally been shoreline oriented. Recently, growing demands for outdoor recreation in a forest environment have reached such a dominant point, serious evaluation must be given to these needs in the management of forest and related lands.

Trail maintenance activities has had to become focused on the highest use trails with available public access. Some back-country trails have had to be neglected due to restraints on manpower and funds. To help supplement back-country trail maintenance efforts, public service work by conservation and recreation groups are encouraged.

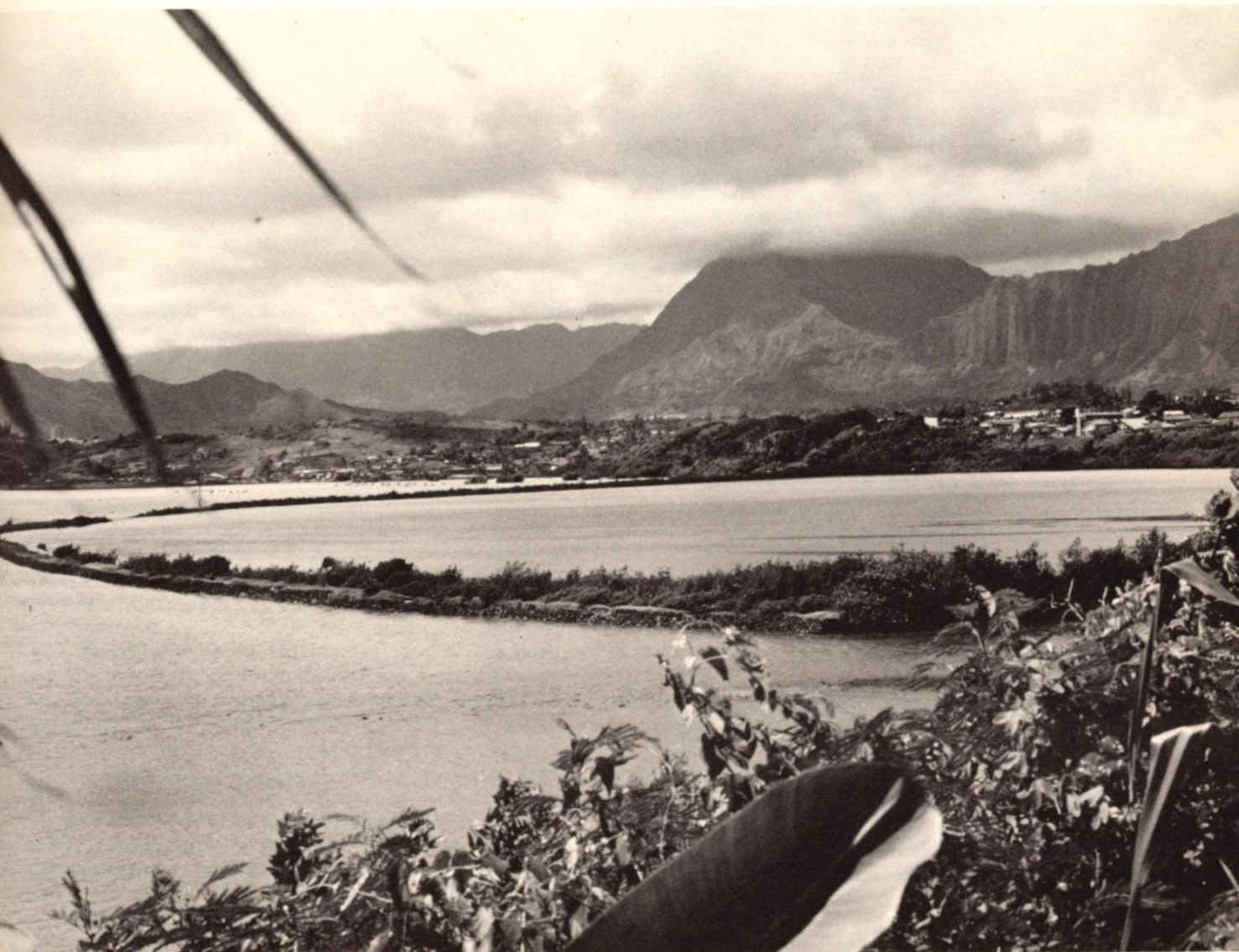
Nineteen young Sierra Clubbers each paid \$45.00 plus their transportation expenses from Oahu (two from California) to volunteer their services to the Department of Land and Natural Resources on a trail maintenance party project on Kauai. This group's accomplishments included the construction of a half a mile addition to the Pihea trail, and the placement of some trail markers along the Alakai Swamp trail. The group camped near the Kawaikoi stream while working on the project. Kauai Forestry employees coordinated the project.

A carefully master-planned forest reserve trail system to provide for enjoyment by many will be developed appealing to wide variety of interests by both residents and visitors. Revision and updating of hiking maps, for Hawaii, Maui, Molokai, Oahu and Kauai, are in the process and should become available in early 1975. During the year a complete trail system plan was completed on the Kauai district including designated need for

right-of-ways.

The opportunity to enjoy Hawaii's forest environment received a big boost on Oahu with the construction of two overnight trail shelters. Each shelter, of prefabricated log cabin design with fireplace, roof catchment water tank and "hale lua" (outdoor toilet) is located on the Koolau summit trail. Trail survey and maintenance crews, wildlife biologists and botanists, the Honolulu Fire Department and military units on search and rescue missions, have all used the shelters. Trail shelters may be also found on Maui and Kauai.

The off-road trail riding site at Waialeale on Oahu has gained tremendous popularity. The cyclists have begun their own tree and grass planting conservation program. Funds are now available to construct much needed sanitary and water facilities. Sites have been located on the islands of Kauai, Maui and Hawaii, and steps are being taken to get these areas formally designated for off-road trail riding.



Scenic Heeia Fish Pond, a prehistoric archaeological treasure, was surveyed by the department and placed on the National Register of Historic Places in 1973. Acquisition of this privately owned pond is sought.



Marine Enforcement Officer R. Kama checks akule netting operation during the closed season for netting of hahalalu (young akule less than 8½ inches).

Fisherman checking station data collected during the 1973 trout fishing season at the Kokee Public Fishing Area (PFA) on Kauai showed that 583 fishermen trips resulted in the taking of 801 trout totalling 415 pounds. Over 1,800 hours were spent fishing, with an average of 1.37 hours and 0.44 fish per trip.

Two shipments totalling 127,000 eyed rainbow trout eggs were received from the Winthrop National Fish Hatchery and processed through the hatchery at the Anuenue Fisheries Research Center on Sand Island. About 28,600 fingerlings were stocked in the Kokee PFA in March and about 36,000 in May. The trout fingerlings were free-dropped into the streams from a helicopter hovering at 50-150 feet.

An estimated 16,359 fishermen-trips were made to the Wahiawa Public Fishing Area facility during this year and some 39,070 hours were occupied in recreational fishing. About 16,175 fish weighing 12,145 pounds were caught. Largemouth bass catches were approximately 3.6 times greater than in previous years, principally as a result of regulation changes that protected the spawning population. A 6.5 pound tucunare taken during the spring is the largest known to have been caught on hook-and-line in the State.

Analysis of population data revealed that approximately 500 tons of fish occupy the Wahiawa Reservoir, but that less than 30 tons of these are game fish. Because of the unexpectedly great abundance of non-game species, principally tilapia and threadfin shad, physical removal of a sufficient proportion of these species to improve population balance was considered, but found impractical for logistic reasons. Work on improved removal techniques is continuing in combination with promotion of commercial utilization of the harvested tilapia. Regulation of the harvest of game fish remains the most feasible management tool to betterment of population balance in the PFA.

Several diseases in the tilapia population were identified and monitored. They pose no hazard to humans and do not damage the quality of the flesh of the fish, but they are of significance because they can induce a repulsive appearance of the fish and may contribute to occasional fish mortality. The diseases reflect overpopulation of tilapia and eutrophication in the reservoir. Better balance between the fish populations and improving environmental conditions can counter this.

The temporary aeration system intended to limit fish kills was operated for several weeks. Oxygen content remained satisfactory in the reservoir waters, and no fish kills were sustained. Because of recent residential development around the reservoir, the gas-driven aeration compressor noise has become a critical problem. Efforts will be continued toward substituting a quieter electric-powered model, as originally planned.

Significant recreational opportunities were again provided through controlled public fishing in the Board of Water Supply Nuuanu Reservoir No. 4, which lies within a restricted watershed in Honolulu. Two periods of public fishing (August 11-12 and 18-19; November 10-11, 17-18 and 24-25) produced 1,046 catfish for 1,534 anglers. Estimated total weight of the fish was 1,765 pounds. The supplementary feeding program has proven to be highly successful. The weight of individual fish has increased markedly, and more fish are being harvested by anglers.

Induced channel catfish spawning experiments underway at the Anuenue Fisheries Research Center in cooperation with the University of Hawaii are presently inconclusive. Although egg deposition was achieved, a poor percentage hatch and high fingerling mortality followed. Procedure has been modified in an effort to produce a higher percentage of viable fingerlings from each spawn. Population enhancement was also attempted through a habitat improvement program. An additional 63 artificial nests were added to the 25 already installed at selected points within the reservoir. Catfish with spawns have been observed in these nests.

Most of the field study of the tucunare, an introduced gamefish from South America, has been completed. The current report period was used for organization and interpretation of data for publications. An unanticipated decline in the tucunare population was found to have been partly due to density dependent effects when the population was at a peak. Regulatory measures to enhance population recovery and to avoid the phenomenon in the future are being considered.



A net full of catfish destined for local markets is taken at the Kealia ponds, Maui, of Fish-Farms, Hawaii.

To properly savor Hawaii's newest delicacy, the secret lies in the sauce; so say the culinary experts. A popular recipe for preparing catfish to suit local taste is given below.

Kabayaki Catfish Sauce

1 cup shoyu
1 cup sugar
1 tbsp. mirin (sake)

3/4 tbsp. Ajinomoto
Pinch of 5 spices
2 tbsp. Sesame Seed Oil w/
sesame seed (roasted)

Marinate catfish in sauce, 1 to 2 hours, then broil. Baste catfish with sauce while broiling.

Close to one million acres of land are managed by the Department through regulations for public hunting. These include State-owned lands under the jurisdiction of this department or other State agencies, Federal lands open to the public through Fish and Wildlife Management agreements, and private lands available by cooperative agreements. Thirty percent of these areas have been designated "Game Management Areas" because of their high potential for providing public recreational hunting. One additional public area consisting of 1,135 acres in Waianae Kai Valley on Oahu was opened to hunting during the year.

Severe droughts and changing private land management policies resulted in reduced hunter opportunities and game mammal harvests during the year. A total of 19,006 hunter trips was made resulting in a harvest of 5,076 mammals including 10 blacktail deer, 17 mouflon sheep, 1,122 feral goats, 1,812 feral sheep, and 2,115 feral pigs on game management areas.

The unusual drought also affected the game bird hunting season throughout the State and ringnecked pheasant hunting seasons on public hunting areas on Maui and Hawaii and all game bird hunting seasons on the public hunting areas on Molokai were closed. Only 5,411 hunter trips were made in pursuit of game birds on public hunting areas and the harvest was as follows:

Ringnecked pheasant .342	Japanese quail	58
Chukar partridge . . 1,490	Black francolin	112
California quail	Grey francolin	306
Barred dove	Erckel's francolin	176
Lace-necked dove	Rio Grande turkey	6

The total game bird harvest of 3,380 was 63% less than the total in 1972-1973.

The development, maintenance and operation of game management areas to encourage game bird and mammal productivity continued. During the year, pipelines were extended on Lanai to provide water for game birds and mammals; grain was provided artificially to enhance game bird productivity on Mana Ridge on Kauai; and food plantings at Kuaokala on Oahu were maintained. Two feral sheep traps were constructed on Mauna Kea on Hawaii in order to capture, mark and release these game mammals to determine their movement.

Facilities for our field staff and sportsmen were constructed during the year including a new range cabin for the *nene* field crew working on Hualalai on Hawaii, alterations to a workshop-warehouse at Lihue on Kauai and renovations to a hunter access road to the Kula-Kahikinui game management area on the island of Maui.

Bio-telemetry trails were initiated on Hawaii to determine whether *nene* fitted with small radio transmitters could be tracked in the field with a receiver to determine movement and locate nesting sites. Although the tests were not conclusive, it appears that this technique may offer a means of determining *nene* movement in the wild.

A publication entitled "The Introduction and Establishment of Blacktail Deer on the Island of Kauai, Hawaii" was prepared in draft form during the year. First introduced to Kauai in 1961, the blacktail deer population is presently estimated at approximately 650 animals, concentrated in the Puu Ka Pele and upper Kekaha areas of Kauai. Food habit studies verified the preference of this species for passion fruit, plums and guavas. Several new plant species were confirmed as food items of the Blacktail deer including the Hawaiian mistletoe, bringing the total identified in the diet of this species so far to over 50. Of the ten deer harvested during the October season, four were yearlings, three were 2-1/2 years old and three were over 3 years of age, all in good physical condition.

Enforcement activities under this program are summarized as follows: patrolled 126,620 miles by vehicle and foot; contacted 14,474 hunters, freshwater fishermen and other resource users; conducted 7,237 inspections of vehicles, fishing crafts, bags and creels; conducted 110 investigations of complaints; and issued 4,582 licenses and permits. A total of 268 citations and 2 penal summons were issued and 5 arrests were made for freshwater fishing, hunting and related violations.

Other Ocean-Based Outdoor Activities (LNR 805)

The successful restoration of marine life at the Hanauma Bay Underwater Park from a seriously depleted condition to an area rich in fish life has encouraged the Department to survey and evaluate other potential sites for possible establishment as marine sanctuaries. Students of the Marine Options Program at the University of Hawaii are assisting the Department in conducting shoreline surveys on Hawaii, Maui and Oahu. Other surveys conducted by the Department during the year included Mahaiula Bay on the Kona Coast of Hawaii, Manele and Hulopoe Bays on Lanai, and the monitoring of marine life at the Hanauma Bay and Kealahou Bay Marine Life Underwater Parks on Oahu and Hawaii respectively.

In order to increase the fish carrying capacity of our inshore Hawaiian waters and to concentrate fish so that they are more available to our recreational fishermen, four artificial reefs were constructed out of car bodies and damaged concrete pipes in previous years. The artificial reefs are located on Maui off Keawakapu and on Oahu in Maunalua Bay, off Waianae and off Kualoa Point (north of Kaneohe Bay). Fish counts made at these reefs during the year showed high densities of fish. A report on Hawaii's Artificial Reefs covering activities since the beginning of the project has been prepared for public information.

Since their introduction into our waters between 1956 and 1961, the snappers, *taape* and *toau*, have become established on all islands of the State and are now open to public fishing. Information gathered from fishermen continue to indicate that these fishes have gained great popularity and are now being taken in substantial quantities by recreational saltwater fishermen.

Enforcement activities under this program are summarized as follows: patrolled 106,920 miles by vehicle, foot and boat; contacted 12,735 saltwater sport fishermen and divers; conducted 3,400 inspections of sport fishing crafts, fish catches and fishing equipment; and conducted 36 investigations of illegal fishing complaints. A total of 164 citations was issued for fishing and related violations.

Design for the first increments of two new parks was completed for the Sand Island and Waimanalo Bay State Recreation Areas. At Sand Island, approximately 15 acres will be landscaped for picnicking and walking along the harbor shore, and two comfort stations, an entry road and parking spaces will also be provided. At Waimanalo, the first increment of work involves the development of 5 acres. Besides landscaping, roads and picnicking areas, two restrooms, a caretaker's house and a tent camping area will be constructed. Progress in developing the Waimanalo park has been delayed pending the outcome of a determination by the National Advisory Council on the effects of the project on the historical values of the area. The Waimanalo Bay State Recreation Area is listed on the National Register of Historic Places.

At Hapuna Beach on the island of Hawaii, a pavilion, two comfort stations, parking areas and picnicking facilities were constructed. The irrigation system was

also expanded and additional landscaping was done. Plans for further development of this outstanding beach park have also been completed.

The Polihale State Park along the Na Pali Coast of Kauai is being improved to better accommodate camping enthusiasts. The construction of camp sites, comfort stations, shelters and other amenities was initiated.

Eight parks totalling 136 developed acres are included in this program.

The project to refurbish and extend the 252-foot pier at Waimea, Kauai was completed. The new pier extends 337 feet from shore and is proving to be a popular and heavily used fishing facility. The pier was dedicated as the "Waimea Recreation Pier" at a ceremony held on April 19, 1974.

General Administration for Culture and Recreation (LNR 809)

Under this program, the Department has continued to inspect and inventory each State Park and their facilities. This is done to serve as a basis for evaluating the needs and priorities for future development, maintenance and expansion of parks. The inventory on Maui was completed and a report of the findings was published in September, 1973. The inventory of Oahu was previously completed and work is now progressing on the island of Hawaii.



Big Island residents can enjoy the beach at Hapuna in greater comfort with the construction of new pavilion, restroom and showers, and enlarged parking facilities.

SECTION 7 PROGRAMS FOR PUBLIC SAFETY

Flood Protection and Control (LNR 810)

The Department is continually developing and modifying a general flood control plan for the State of Hawaii. The Department staff also coordinates the planning and development activities of the several governmental and private organizations and individuals concerned in any way with destructive floods and the problems connected with them.

The general flood control plan promotes two basic methods or approaches for minimizing loss of life and property damage from floods. The first involves measures to control land uses and development within potential or actual flood hazard areas. This regulatory program depends principally on the willingness of each County to establish and enforce effective zoning and building ordinances which will control or prevent costly residential, industrial, or hotel-resort development on land subject to floods or tsunami inundation. The Department has been assisting the Counties in preparing flood plain regulations and in advising them of the use of land in flood hazard areas.

The second method involves measures to control the destructive flood waters through reduction in the speed and intensity of flood water runoffs and by channelling such waters. A number of governmental agencies, vol-

unteer service organizations, and land owners are directly involved in flood prevention activities, such as land treatment which includes restoration, improvement of ground cover on eroded land, forest plantings for conservation of water resources, contour planning of crops, construction of farm ponds and reservoirs, and other conservation improvements which will retard surface runoff. The construction of flood control dams, spillway channels and other major facilities is principally a function of federal and county agencies.

The Department maintains a complete reference file on reports of floods and flood damage in Hawaii. These files incorporate news media reports and survey reports by the Department staff and the staff of other State, Federal, and County agencies. Following each major storm and tsunami, the Department staff coordinates the data collection efforts of all agencies and compiles and publishes a post flood report on storm causes, inundation and damage.

During the year the Department through the U.S. Corps of Engineers completed flood plain maps for Heeia and Hauula-Punaluu on the island of Oahu and Pauko-Anaehoomalu, Hawaii. Work is now in progress for the preparation and publication of similar maps for Pauoa Stream on Oahu; West Molokai; Olowalu, Maui; and Hanamaulu and Moikeha-Waikea, Kauai.

A flood control project at Puukapu, Hawaii, is typical of the safety measures taken by the State to mitigate storm water damages.



APPENDIX



Iolani Palace—a U.S. Bi-Centennial Highlight

DEPARTMENT BUDGET SUMMARY

	Actual 1973-1974	Estimate 1974-1975	2 Year 1973-1975		Actual 1973-1974	Estimate 1974-1975	2 Year 1973-1975
OPERATING COST				OPERATING COST			
A. Personal Services	3,786,433	4,009,564	7,795,997	<i>Means of Financing</i>			
B. Other Current Exp.	1,523,974	1,714,304	3,238,278	General Fund	4,205,052	4,760,115	8,965,167
C. Equipment	6,660	44,205	50,865	Special Fund	757,025	597,786	1,354,811
D. Motor Vehicles	—	—	—	Other Federal Funds	342,090	397,272	739,362
TOTAL OPERATING COST	5,317,067	5,768,073	11,085,140	Private Contributions	12,900	12,900	25,800
				TOTAL OPERATING COST	5,317,067	5,768,073	11,085,140

BUDGETARY ALLOCATIONS BY DIVISIONS

	Actual 1973-1974	Estimate 1974-1975	2 Year 1973-1975		Actual 1973-1974	Estimate 1974-1975	2 Year 1973-1975
OPERATING COST				OPERATING COST			
ADMINISTRATION				LAND MANAGEMENT			
A. Personal Services	306,054	392,751	698,805	A. Personal Services	369,810	374,844	744,654
B. Other Current Exp.	144,227	140,791	285,018	B. Other Current Exp.	25,914	25,535	51,449
C. Equipment	—	35,000	35,000	C. Equipment	—	4,266	4,266
D. Motor Vehicles	—	—	—	D. Motor Vehicles	—	—	—
TOTAL OPERATING COST	450,281	568,542	1,018,823	TOTAL OPERATING COST	395,724	404,645	800,369
CONVEYANCES				STATE PARKS			
A. Personal Services	398,990	439,999	838,989	A. Personal Services	712,062	724,697	1,436,759
B. Other Current Exp.	42,756	44,497	87,253	B. Other Current Exp.	74,113	103,114	177,227
C. Equipment	5,209	4,471	9,680	C. Equipment	—	—	—
D. Motor Vehicles	—	—	—	D. Motor Vehicles	—	—	—
TOTAL OPERATING COST	446,955	488,967	935,922	TOTAL OPERATING COST	786,175	827,811	1,613,986
FISH AND GAME				WATER AND LAND DEVELOPMENT			
A. Personal Services	763,179	794,362	1,557,541	A. Personal Services	456,641	450,645	907,286
B. Other Current Exp.	142,992	237,703	380,695	B. Other Current Exp.	661,160	713,278	1,374,438
C. Equipment	1,451	468	1,919	C. Equipment	—	—	—
D. Motor Vehicles	—	—	—	D. Motor Vehicles	—	—	—
TOTAL OPERATING COST	907,622	1,032,533	1,940,155	TOTAL OPERATING COST	1,117,801	1,163,923	2,281,724
FORESTRY							
A. Personal Services	779,697	832,266	1,611,963				
B. Other Current Exp.	432,812	449,386	882,198				
C. Equipment	—	—	—				
D. Motor Vehicles	—	—	—				
TOTAL OPERATING COST	1,212,509	1,281,652	2,494,161				

PERSONNEL DIVISION

Table 1. SUMMARY OF PERSONNEL TRANSACTIONS—JULY 1, 1973 TO JUNE 30, 1974

Accessions	64	Other Personnel Actions	600
New Hire—Permanent	13	(Excludes increment and pay adjustment; conversion from probational to permanent status.)	
—Inter-Agency Transfer	4	Promotion	3
New Hire—Limited Term Appointment	2	Voluntary demotion	—
—Temporary Appt Outside List	3	Reallocation	15
—Emergency	11	Reclassification	—
—Provisional	1	Change in Title	22
—Exempt	30	Limited Term Promotion	21
Separations	46	Intra-Agency Transfer	10
Resignation and Transfer	15	Temporary Assignment	100
(Permanent Employees)		Extension LTA	36
Resignation and Termination	24	Extension Exempt Appointment	46
(Temporary Services)		LTA to Permanent Appointment	7
Retirement	5	LWOP (Maternity)	8
Death	2	LWOP (Others)	35
		Extension LWOP	8
		Name Change	2
		Correction	71
		Hazard Pay Differential	—
		Extension of Probational Appointment	—
		Return to Former Position	15
		Return to Duty from LWOP	33
		Cancel—Reallocation	1
		Cancel—LWOP	4
		Suspension	—
		Summer Hire	146
		Pay adjustment	13
		Change in Organization	3
		Change in FTE	1

Table 2. FULL-TIME PERSONNEL EMPLOYED BY THE DEPARTMENT BY DIVISION AND ISLANDS, AS OF JUNE 30, 1974

Divisions	June 30, 1974	June 30, 1974					Total
		Hawaii	Oahu	Kauai	Maui	Molokai Lanai	
Administration and Staff	25	1	24	1	—	—	26
Conveyances	42	—	46	—	—	—	46
Fish & Game	67	11	33	6	4	4	58
Forestry	83	27	19	18	12	3	79
Land Management	28	2	22	2	2	—	28
State Parks, Outdoor Recreation and Historic Sites	102	17	48	26	10	1	102
Water & Land	51	4	48	1	00	3	56
TOTAL	398	62	240	54	28	11	395

BUREAU OF CONVEYANCES

Table 1. NUMBER OF DEEDS FILED AND RECORDED, APPROXIMATE VALUE OF LAND CONVEYED AND TOTAL FILING AND RECORDING FEES RECEIVED BY THE BUREAU OF CONVEYANCES FROM 1964 TO 1974

Fiscal Year	Number of Deeds Filed and Recorded	Approx. Value of Land Conveyed	Total Filing and Recording Fees Received
1964-1965	12,175	101,482,100	408,619.55
1965-1966	12,799	133,301,000	412,919.30
1966-1967	11,643	218,966,000	341,266.65
1967-1968	13,615	528,972,370	344,247.30
1968-1969	14,683	809,639,656	386,887.25
1969-1970	14,876	822,665,446	398,025.75
1970-1971	16,036	969,486,762	465,205.75
1971-1972	20,354	1,211,269,225	618,992.00
1972-1973	21,874	1,736,756,401	666,400.00
1973-1974	21,435	2,076,149,000	766,639.00

Table 2. DOCUMENTS RECORDED AND FILED AND LAND COURT CERTIFICATES OF TITLE ISSUED BY THE BUREAU OF CONVEYANCES FROM 1964 TO 1974

Fiscal Year	Documents Recorded and Filed			
	Total	Regular System	Land Court System	Land Court Certificates of Title Issued
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	43,898	8,277
1972-1973	149,633	100,727	48,906	9,896
1973-1974	146,221	94,899	51,322	9,267

Table 3. VALUE OF PROPERTY TRANSFER IN THE STATE OF HAWAII, BY COUNTIES, 1964 TO 1974^a

Year ^b	MAUI		HONOLULU		HAWAII		KAUAI		STATE OF HAWAII
	% of State	Amount	% of State	Amount	% of State	Amount	% of State	Amount	
1973-74	10.10	209,815,236	75.90	1,575,253,704	9.30	193,436,897	4.70	97,643,613	2,076,149,450
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

^aIncludes fee simple and leasehold sales of property. Does not include bequests, gifts, etc.

^bFiscal year ending June 30.

DIVISION OF FISH AND GAME

Table 1. FRESHWATER GAME FISHING LICENSE AND HUNTING LICENSE STATISTICS 1958-59 to 1973-74

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
1973-1974 ...	8,309	25,271.59	11,452	82,918.28

Table 2. COMMERCIAL FISHING LICENSES AND PERMITS 1973-74

Kind of Licenses and Permit	Number	Collections (dollars)
Commercial Fishing—Resident	2,051	\$20,510.00
Commercial Fishing—Non-Resident	31	620.00
Mullet License	105	350.00
Lobster License	13	40.00
Commercial Bait Permit	50	50.00
Duplicate Commercial Fishing License	13	6.50
TOTAL	2,263	\$21,576.50

Table 3. COLLECTIONS—ALL SOURCES: 1964-65 TO 1973-74

Year Ending June 30	All Collections	Commercial Fishing	Freshwater Game Fishing	Hunting	Miscellaneous Licenses, Permits, and Other Income
1973-1974	\$131,525.37	\$21,576.50	\$25,271.59	\$82,918.28	\$1,759.00
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: 1973-74

	Hawaii		Maui		Oahu		Kauai		State	
Type	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	12	\$43.32	—	—	5,611	\$20,002.38	557	\$1,990.86	6,180	\$22,036.56
Non-Resident	1	7.50	—	—	23	160.47	6	44.25	30	212.22
Juvenile	—	—	—	—	1,693	2,283.60	186	266.45	1,879	2,550.05
Tourist	2	7.50	—	—	76	271.09	39	145.07	117	423.66
Duplicate	—	—	—	—	96	45.63	7	3.47	103	49.10
TOTAL	15	\$58.32	—	—	7,499	\$22,763.17	795	\$2,450.10	8,309	\$25,271.59

Table 5. HUNTING LICENSES: 1973-74

	Hawaii		Maui		Oahu		Kauai		State	
Type	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	3,932	\$28,403.03	1,595	\$11,488.76	3,956	\$28,275.44	1,489	\$10,662.24	10,972	\$78,829.47
Non-Resident	177	2,537.25	27	390.00	59	844.84	15	217.50	278	3,989.59
Duplicate	66	33.00	45	21.90	51	24.49	40	19.83	202	99.22
TOTAL	4,175	\$30,973.28	1,667	\$11,900.66	4,066	\$29,144.77	1,544	\$10,899.57	11,452	\$82,918.28

Table 6. MISCELLANEOUS GAME LICENSES, SALES AND RENTAL: 1973-74

	Number	Amount (dollars)
Game Bird Farm License	79	\$ 79.00
Sale of Publications	12	10.50
Sale of Confiscated Legal Hunting Gear	23	1,072.50
Sale of Confiscated Fishing Gear	8	31.00
Rental of Hunting Cabins—Hawaii	54	566.00
TOTAL	176	\$1,759.00

Table 7. MISCELLANEOUS PERMITS (NO CHARGE) 1973-74

Type	Number
Permit to Destroy Birds or Mammals	25
Scientific Collecting Permit	26
Field Trial Permit	7
Permit for Entry on Bird Sanctuaries	11
Aquarium Fish Permit	312
Permit to Keep Birds in Captivity	5
Permit to Take and Destroy Birds Which Constitute a Nuisance	5
Group Permit	9
TOTAL	400

Table 8. FEDERAL AID FUNDS 1973-74

Type	Amount (dollars)
Pittman-Robertson Federal Aid in Wildlife Restoration Fund	\$113,241.00
Dingell-Johnson Federal Aid in Fish Restoration Fund	73,718.80
Nene Restoration Project Fund	24,702.03
Hawaiian Islands National Wildlife Refuge Fund	—
Commercial Fisheries Research & Development (P.L. 88-309) Fund	30,256.97
TOTAL	\$241,918.80

Table 9. COMMERCIAL FISH CATCH BY SPECIES, STATE OF HAWAII—FISCAL YEAR JULY, 1973–JUNE, 1974

Sea Catch by Species					
Species	Pounds	Value	Species	Pounds	Value
Aku (Skipjack)	10,261,257	\$3,168,291	Pualu	6,520	\$1,771
Ahi (Yellowfin)	946,371	778,509	Puhi (eel)	4,547	452
Ahipalaha (Albacore)	30,925	28,687	Puhi (white eel)	1,490	298
Ahi (Bigeye)	447,439	711,766	Uhu	4,374	1,980
Kawakawa	35,411	6,933	Ukikiki (Gindai)	2,109	1,888
Swordfishes (Misc.)	2,004	556	Uouoa	1,023	885
Stripe Marlin	169,255	96,954	Uu (Menpachi)	17,835	16,112
Pacific Blue Marlin*	89,009	18,413	Weke	29,934	13,849
Black Marlin**	702	481	Malu	393	381
Broadbill	175	—	Saba	65	34
A'u Iepe (Sailfish)	2,218	632	Crab (Papai-Misc.)	2,041	1,585
Mahimahi	113,848	95,295	Crab (Kona)	40,552	70,073
Ono	71,228	29,819	Crab (Kuahonu)	29,227	36,750
Hapuupuu	41,428	40,101	Crab (Moala)	796	509
Kahala	47,987	25,031	Crab (Samoan)	86	133
Kalekale	6,357	6,278	Opae (Shrimp)	1,007	1,492
Omilu	1,934	1,462	Ula (Lobster)	5,757	8,996
Opakapaka	136,482	121,576	Ulapapapa	103	117
Uku	77,170	56,601	Hee (Octopus)	12,618	12,511
Ulaula (Ehu)	27,869	38,249	Muhee (True Squid)	11,447	6,809
Ulaula Koae (Onaga)	46,564	79,314	Opihi (Limpet)	19,558	23,424
Ulua	57,645	49,200	Honu (Turtle)	6,322	2,470
Weke-ula	16,766	16,079	Misc.	147,859	69,709
Aawa	1,384	269	TOTAL	13,974,651	\$6,220,660
Aholehole	3,396	3,126			
Akule	543,032	275,908	Pond Catch by Species		
Hahalalu	94,737	53,014	Species	Pounds	Value
Amaama (Mullet)	15,577	21,278	Ulua	2,436	\$ 1,939
Awa	12,852	5,069	Aholehole	340	263
Aweoweo	3,211	1,788	Amaama (Mullet)	2,724	2,723
Humuhumu (Hage)	934	369	Awa	1,792	829
Kaku (Barracuda)	3,602	1,088	Awaawa	367	186
Kala	20,793	3,261	Kaku	756	655
Kawelea	2,977	2,112	Moi	153	79
Kumu	7,894	13,516	Oio	8,428	4,105
Laenihi (Nabeta)	4,078	4,025	Crab (Kuahonu)	487	—
Lehi	4,860	3,072	Crab (Moala)	36	—
Maomao (Mamo)	2,036	1,235	Crab (Samoan)	191	123
Manini	8,682	7,498	Clam (Olepe)	24	24
Moano	7,115	6,531	Misc.	5,050	3,347
Moi	4,864	5,851	TOTAL	22,784	\$ 14,273
Moelua	14,670	11,856	GRAND TOTAL	13,997,435	\$6,234,933
Nenu	10,553	3,987			
Nohu (Hogo)	1,423	1,315			
Oio	25,054	8,857			
Opelu	190,144	138,836			
Palani	15,076	4,344			

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

***Istiompa marlina* (Called silver marlin by Hawaii Fish & Game Div. prior to July, 1962)

Table 10. COMMERCIAL FISH LANDINGS BY ISLAND, STATE OF HAWAII—FISCAL YEAR JULY, 1973–JUNE, 1974

Island	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Hawaii	1,547,257	\$ 886,559	4,558	\$ 5,112	1,551,815	\$ 891,671
Maui	981,043	247,549	—	—	981,043	247,549
Lanai	11,330	6,550	—	—	11,330	6,550
Molokai	18,280	13,365	2,922	33	21,202	13,398
Oahu	11,134,500	4,947,821	15,304	9,128	11,149,804	4,956,949
Kauai	282,241	118,816	—	—	282,241	118,816
TOTAL	13,974,651	\$6,220,660	22,784	\$14,273	13,997,435	\$6,234,933

Table 11. COMMERCIAL FISH LANDINGS BY MONTH, STATE OF HAWAII—FISCAL YEAR JULY, 1973-JUNE, 1974

Month	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
1973						
July	3,079,701	\$ 862,112	2,117	\$ 1,281	3,081,818	\$ 863,393
August	1,884,126	638,554	1,816	980	1,885,942	639,534
September	803,185	367,758	1,352	713	804,537	368,471
October	1,206,792	543,429	2,089	1,258	1,208,881	544,687
November	922,391	460,839	1,839	1,150	924,230	461,989
December	807,187	644,947	1,908	1,439	809,095	646,386
1974						
January	497,189	327,445	1,477	888	498,666	328,333
February	671,144	395,205	542	262	671,686	395,467
March	663,098	411,975	1,214	684	664,312	412,659
April	575,434	334,895	2,827	1,878	578,261	336,773
May	1,327,389	596,361	2,645	1,756	1,330,034	598,117
June	1,537,015	637,140	2,958	1,984	1,539,973	639,124
TOTAL	13,974,651	\$6,220,660	22,784	\$14,273	13,997,435	\$6,234,933

Table 12. FISHING AND HUNTING VIOLATIONS 1973-74

Type of Violation	Number	Type of Violation	Number
FISHING VIOLATIONS		HUNTING VIOLATIONS	
Fishing with illegal mesh nets/throw nets	28	Hunting without license	31
Taking and possession of lobster with spear, below legal weight, during closed season and with eggs	61	Failure to check in/out at hunter checking stations	26
Taking oysters and clams during closed season	15	Hunting on days closed to hunting	2
Taking and possession of sea mullet during closed season	14	Hunting and possession of game birds and game mammals during the closed season	2
Possession of octopus below the legal weight	33	Hunting in prohibited areas	21
Fishing in a marine life conservation district	9	Hunting game mammals in game management areas without wearing bright orange colored garment	24
Exceeding oama bag limit	2	Hunting game mammals areas at night	9
Unlawful entry and fishing in freshwater fish refuge and public fishing area without permit	18	Hunting and possession of firearms in game management areas without permit	18
Fishing in a public fishing area without life preserver	4	Failure to display hunting license and unlawful transfer of hunting license to another person	39
Minors fishing without adult supervision in a public fishing area	9	Unlawful carriage and carrying loaded firearms in vehicle	7
Fishing without freshwater fishing license, and failure to display license	45	Hunting with rifle of less than 1,200 foot pounds muzzle energy, and possession of unauthorized ammunition	4
Exceeding freshwater game fish bag limit	4	Operating vehicle off designated roadway in a game management area	1
Commercial fishing without license, selling undersized fish, and unlawful sale of bait fish	24	Hunting with dogs in prohibited area	1
Possession of Kona crabs with eggs	1	Hunting and possession and discharging of firearms in closed and restricted areas	2
Unlawful trapping of fish	1	Unlawful shooting of wild birds	1
Netting akule less than 8½ inches during closed season	7	Use of aircraft for hunting in game management area	2
Unlawful use of nets in restricted waters	2		
Possession and use of unlawful gear in a public fishing area	6		
Failure to submit monthly fish catch report	1		
TOTAL FISHING VIOLATIONS	284	TOTAL HUNTING VIOLATIONS	187
		MISCELLANEOUS VIOLATIONS	
		Disorderly conduct	1
		Unlawful entry upon bird sanctuary island	3
		Possession of unregistered firearms (pistols)	2
		TOTAL MISCELLANEOUS VIOLATIONS	6

Table 13. ARRESTS, CITATIONS AND DISPOSITION 1973-74

Subject	The State	Hawaii County	Kauai County	Maui County	Honolulu County
Citations	455	114	65	68	208
Arrests	7	—	—	5	2
Penal Summons	2	—	—	2	—
Number of Charges	500*	114	66	97	223
Bail Forfeitures	157	52	—	35	70
Juvenile Authorities/Court	67	10	5	14	38
Cases Pending	52	7	—	12	33
Cases Dismissed	46	18	7	2	23
Convictions	178	31	54	34	59
Fines	66	4	29	10	23
Suspended Fines	23	—	20	2	1
Suspended Sentences	80	26	5	14	35
Split Fines (Fines, Suspended Fines, Suspended Sentences/Jail Sentence)	9	1	—	8	—

*Includes 27 pending cases from FY 1972-73 that were disposed of during this period.

Table 14. INCOME FROM CITATIONS AND ARRESTS 1973-74

State/Countries	Fines	Bail Forfeitures	Suspended Fines
The State	\$1,300.00	\$4,185.00	\$725.00
Hawaii County	60.00	1,375.00	15.00
Kauai County	575.00	—	485.00
Maui County	375.00	960.00	200.00
Honolulu County	290.00	1,850.00	25.00

DIVISION OF FORESTRY

Table 1. FOREST INCOME, FISCAL YEAR 1973-74

Source	Hawaii	Kauai	Maui	Molokai	Oahu	Central Nursery	TOTAL
Nursery Sales	247	78	119	—	77	319	\$ 840
Sales of Forest Products							
Timber ¹	48,894	20	—	—	—	—	48,914
Tree Ferns	911	—	—	—	—	—	911
Others ²	—	339	1,233	—	—	—	1,572
TOTAL NON-FEDERAL ³	50,052	437	1,372	—	77	319	52,237
Federal Assistance Program:							
Clarke-McNary, Sec. 2 (Forest Fire Protection)							\$65,700
Cooperative Forest Management							27,082
Title IV Reforestation							25,652
Pest Control Program							1,363
TOTAL FEDERAL							\$119,797
GRAND TOTAL							\$172,034

¹Includes \$37,700.50 forfeited for 1972 and 1973 timber stumpage.

²Numerous items including Arbor Day plants, bamboo and ornamentals.

³Collections are administered by the Land Management Division. Receipts reported above does not include those from sales of water originating within the forest reserves.

Table 2. SILVICULTURAL PROGRAM IN FOREST RESERVES, FISCAL YEAR 1974

Island	Activity						Noxious Plant Control
	Planting	Replanting	Natural Regeneration	Weeding	Pruning	Thinning	
	(acres)						
Hawaii	—	—	—	81	30	—	140
Kauai	27.50	37	—	15	5	—	—
Maui	35	28	—	174	—	1	65
Molokai	23.50	—	—	—	11	—	—
Oahu	—	—	—	13	—	2	2
State	86	65	—	283	46	3	207

Table 3. ACRES AND NUMBERS OF TREES PLANTED BY SPECIES AND FOREST RESERVE. FISCAL YEAR 1974¹

Species	Puu Ka Pele (Kauai)	Kalepa (Kauai)	Koolau (Maui)	West Maui (Maui)	Molokai (Molokai)	All Forest Reserves
Ironwood	1	7	—	—	—	(2,450)
<i>Casuarina cunninghamiana</i>	(300)	(2,150)	—	3	—	3
Norfolk Island Pine	—	—	—	(1,250)	—	(1,250)
<i>Araucaria heterophylla</i>	—	—	3	—	—	3
Bagras	—	—	(1,400)	—	—	(1,400)
<i>Eucalyptus deglupta</i>	—	—	—	—	—	18.5
Shortleaf ironwood	6	12.5	—	—	—	(5,650)
<i>Casuarina equisetifolia</i>	(2,000)	(3,650)	—	—	23.5	23.5
Slash Pine	—	—	—	—	(14,325)	(14,325)
<i>Pinus elliottii</i>	—	—	24	—	—	24
Sidney Bluegum	—	—	(11,500)	—	—	(11,500)
<i>Eucalyptus saligna</i>	—	—	—	5	—	6
Miscellaneous ²	—	(96)	—	(1,855)	—	(1,951)
TOTAL	7 (2,300)	20.5 (5,896)	27 (12,900)	8 (3,105)	23.5 (14,325)	86 (38,526)

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

² Includes 20 Halapepe (*Pleomele aurea*), 40 Akia (*Wilestroemia* sp.), 59 Maua (*Xylosma hillebrandii*), 10 Koaia (*Acacia koa*), 57 Aiea (*Nothocestrum latifolium*), 227 Naio (*Myoporum sandwicense*), 68 Lama (*Diospyros sandwicensis*), 5 Alaa (*Sideroxylon spathulatum*), 20 Molokai ohai (*Sebania* sp.), 117 Nau (*Gardenia brighamii*), 111 Hoawa (*Pittosporum hosmeri*), 113 Ohe makai (*Reynoldsia sandwicensis*), 262 Hao (*Rauvolfia mauiensis*), 24 Mamani (*Sophora chrysophylla*), 242 Olopuia (*Osmanthus sandwicensis*), 200 Iliahi (*Santalum ellipticum*), 70 Holei (*Orchrosia compacta*), 22 Hame (*Antidesma platyphyllum*), 3 Lonomea (*Sapinus oahuensis*), 138 Papala kepau (*Pesonia umbellifera*), 24 Pilo (*Comprosmas* sp.), 23 Hau kuahiwi (*Hibiscadelphus hualalaiensis*), 60 Indian coral tree (*Erythrina indica*), 12 West Indies Kou (*Cordia sebestina*), 6 Nihou palm (*Pritchardia remata*), 6 Loulu palm (*Pritchardia* spp.), 12 Milo (*Thespesia populnea*).

Table 4. NURSERY PRODUCTION, FISCAL YEAR 1973-74

Land Ownership Class	Central Tree Nursery		Hilo		Kauai		Maui		Oahu		State		Total
	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break	Timber & Other	Wind- break	
Federal	1,312	300	—	—	100	154	—	—	—	—	1,412	454	1,866
State Forest Reserve	42,300	—	—	—	15,092	—	4,098	—	—	—	61,490	—	61,490
Other State Lands	500	36	—	—	278	32	—	—	—	—	778	68	846
Town, City, County and Public Schools	—	1,735	—	—	214	1,168	4	—	—	—	218	2,903	3,121
Persons, Clubs, Associations and Private Schools	34,139	67,227	22	—	5,428	805	50	—	525	—	40,164	68,032	108,196
Forest Reserves, not State Owned	1,750	5,100	—	—	—	—	500	—	—	—	2,250	5,100	7,350
Plantations, Ranches, Power Companies, not in Forest Reserves	11,000	15,000	—	—	—	—	—	—	—	—	11,000	15,000	26,000
Total Timber	91,001	—	22	—	21,112	—	4,652	—	525	—	117,312	—	—
Total Windbreak	—	89,398	—	—	—	2,159	—	—	—	—	—	91,557	—
Ornamental, endemic, misc.	—	—	4,621	—	—	—	2,159	—	—	—	—	—	6,780
All	180,399	—	4,643	—	23,271	—	6,811	—	525	—	—	—	215,649

Table 5. FOREST AND BRUSH FIRES. FISCAL 1973-74
(A) Location, number, acres burned

	Number	Acres Burned
Division of Forestry Protection Area		
Hawaii	23	2,572
Kauai	1	8
Maui	7	105
Oahu	3	434
Lanai	1	250
TOTAL	35	3,369
Mutual aid fires to which Division Forestry responded outside of protection area	15	813
TOTAL	50	4,182

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

Island	Name	Date	Acres Burned	Cause
Hawaii	Puuanhulu	7/ 5/73	2,300	Arson
	Kahena 2	7/28/73	320	Smokers
	Waikoloa	9/ 3/73	20	Smokers
	Pohakuloa	9/10/73	100	Military
	Hawaii			
	Paradise Park	9/18/73	132	Smokers
	Fern Forest	3/22/74	80	Smokers
	Muliwai	5/ 5/74	12	Military
	Kahaulea	6/ 1/74	286	Volcanic
Maui	Laulailua	8/ 4/73	80	Unknown
	Maui Meadows	10/18/73	30	Smokers
Oahu	Halemano	7/25/73	430	Military
Lanai	Kaumalapau	7/ 4/73	250	Debris burning

Table 6. ROADS, TRAILS, AND FENCES. FISCAL YEAR 1973-74

	Construction			Maintenance		
	Roads	Trails	Fences	Roads	Trails	Fences
						feet
Hawaii	1,320	1,320	8,712	459,888	154,440	97,944
Kauai	2,640	2,640	7,656	93,720	134,693	3,643
Molokai	—	15,840	—	260,357	—	15,840
Maui	7,920	—	686	209,880	11,616	13,147
Oahu	—	792	—	67,584	168,432	6,072
TOTAL	11,880	20,592	17,054	1,091,429	469,181	136,646
MILES	2.25	3.90	3.23	206.71	88.86	25.88

Table 7. SURRENDER AGREEMENTS FOR PRIVATE LANDS IN CONSERVATION DISTRICTS, JUNE 30, 1974

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	12-31-1976	20	4,911
Laie	Kahuku	Zions Securities Corporation	5-22-1988	20	2,560
Kaipapau	Kaipapau	Zions Securities Corporation	5-22-1988	20	276
Molokai:					7,747
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	3,850
Maui:					5,572
Kipahulu	Kipahulu	Ulupalakua Ranch Company	12-31-1978	20	3,519
Hawaii:					3,519
Kukuau 1 ¹	Hilo	Kinoole Development Co., Ltd.	12-31-1977	30	2,979
					2,979
GRAND TOTAL					29,937

¹Corrected June 1974

Table 8. FOREST AND WATER RESERVE WITHIN CONSERVATION DISTRICT, JUNE 30, 1974
(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
Hauptu	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
Molokaa	4,564.00	928.00	2,270.00	—	—	1,366.00
Na Pali-Kona	61,425.00	41,528.10	—	—	—	19,896.90
Nonou	818.00	818.00	—	—	—	—
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
Kawaihoa	18,696.00	—	—	—	—	18,696.00
Kuaokala	385.00	385.00	—	—	—	—
Kuliohou	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
Kahaluu	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	—	—	—	—
Manaowialee	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 BY INSTITUTE OF PACIFIC ISLANDS FORESTRY, JULY 1973-JUNE 1974

Skolmen, Roger G. 1973. Characteristics and Amount of Brittleheart in Hawaii-Grown Robusts Eucalyptus. Wood Science 6(1):22-29, illus.	Skolmen, Roger G. 1973. Pressure treatment of Robusta and Ohia Posts... final report. USDA Forest Serv. Res. Note PSW-285. Pacific Southwest Forest & Range Exp. Stn., Berkeley, Calif., 2 p.
Walters, Gerald A. 1973. Tordon 212 ineffective in killing firetree in Hawaii. U.S. Forest Serv. Res. Note PSW-284. Pacific Southwest Forest & Range Exp. Stn., Berkeley, Calif., 2 p.	Skolmen, Roger G. 1973. Lumber Potential of 12-Year-Old Saligna Eucalyptus Trees in Hawaii. USDA Forest Serv. Res. Note PSW-288. Pacific Southwest Forest & Range Exp. Stn., Berkeley, Calif., 7 p.
Walters, Gerald A. and Herbert L. Wick 1973. Coppicing to convert cull Australian toon, tropical ash to acceptable trees. USDA Forest Serv. Res. Note PSW-283. Pacific Southwest Forest & Range Exp. Stn., Berkeley, Calif., 4 p., illus.	Nelson, Robert E. 1974. Water for Hawaii—Mountain Watersheds. Summary Proceedings of a Conference on Water for Hawaii, Environmental Conference on the Public Understanding of Science for Hawaii (ECOPUSH), January 31-February 1, 1974, 4 p.
Yamamoto, Teruo and Henry W. Anderson 1973. Splash Erosion Related to Soil Erodibility Indexes and Other Forest Soil Properties in Hawaii. Water Resources Research 9(2):336-345.	Skolmen, Roger G. 1974. Some Woods of Hawaii... properties and uses of 16 commercial species. USDA Forest Serv. Gen. Tech. Rep. PSW-8. Pacific Southwest Forest & Range Exp. Stn., Berkeley, Calif. 30 p., illus.
Merriam, Robert A. 1973. Fog Drip from Artificial Leaves in a Fog Wind Tunnel. Water Resources Research 9(6):1591-1598.	

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
TOTALS	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.

¹ Includes fee simple and ceded land.² Includes Hawaii State land which is managed by the county governments and various State agencies, and Hawaiian Homes Commission lands.³ Included 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.⁴ Includes 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 of 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 1973-1974	ESTIMATED 1974-1975
Receipts: (All Chapter 171 HRS)		
Rentals, Leased Public Lands	\$2,342,959	\$2,550,000
Rentals, Unleased Public Lands	1,220,879	1,250,000
Sale of Wood, Rock and Sand	162,950	175,000
License, Use of Government Water	256,119	260,000
License, Use of Government Land for Specific Purposes	32,253	35,000
TOTAL RECEIPTS	\$4,015,160	\$4,270,000
Expenditures:		
Revenue from Hawaiian Homes	\$ 241,160	\$ 670,000
Land and Transfers*	3,774,000	3,600,000
Transfers to General Fund		
TOTAL TRANSFERS	\$4,015,160	\$4,270,000
*Hawaiian Home Lands Receipts:		
Loan Fund (Act 4, SLH 1965)	\$ —	\$ 400,000
Administration Fund	241,160	270,000
Development Fund	—	—
TOTAL	\$ 241,160	\$ 670,000

GENERAL FUND REVENUES Land Management Program

Title of Receipt and Legal Reference	Fee Schedule	ACTUAL 1973-1974	ESTIMATED 1974-1975
Conveyance Tax (Act 5/68)	\$.50 per 100	\$ 1,141	\$ 1,200
Forfeiture for Failure to Return Plans and Specifications	\$25.00 per plan & spec.	—	—
Fees, Copies of Public Documents	\$.50 per page	513	600
Fees, Issuance of Land Patents, etc.	\$20.00 each	4,524	4,500
Fees, Consents to Transfers, etc.	\$15.00 each	1,190	1,200
Fees, Surveying Public Lands	\$25.00 each	1,675	1,700
Fees, Appraisals		—	—
Sale of Publications		10	—
Sale of Improvements on Expired or Cancelled Leases		—	—
Cost of Managing Property Acquired for Highway Purposes ..		10,931	12,000
Indemnity for Damages to Insured Property		23,000	20,000
Sale of Wood, Rock and Sand		48,902	50,000
Interest on Delinquent Accounts		20	50
Witness or Juror Fees		78	80
Sales of Equipment or other Property		—	—
Refund/Reimbursement of B.O. Bond		121,690	65,957
Transfer Balance—Sand Island Revenues		122,423	75,000
TOTAL GENERAL FUND REVENUES		\$336,097	\$232,287

SPECIAL LAND AND DEVELOPMENT FUND Land Management Program

	ACTUAL 1973-1974	ESTIMATED 1974-1975
Balance at the beginning:	\$3,923,966	\$5,712,446
Receipts:		
Transfers In	\$ 5,049	\$ —
Interest on Deferred Payments	73,363	70,000
Sale of Public Lands	2,277,831	2,000,000
Reimbursable Expenditures	—	—
Refunds and Reimbursements of Prior Year's Expenditures	33,161	30,000
Sub-totals	2,389,404	2,100,000
TOTAL RECEIPTS	\$6,313,370	\$7,812,446
Expenditures:		
Land & Interest in Land	\$ 10,009	\$ 50,000
Structures & Permanent Improvements to Land	—	—
Transfers Out:		
Maintenance Fund	18,245	25,000
Bond Fund Repayments	491,228	619,351
Administrative Costs	81,442	90,000
TOTAL EXPENDITURES	\$ 600,924	\$ 784,351
Balance at end	\$5,712,446	\$7,028,095

GENERAL LEASES—SUMMARY, ALL ISLANDS, JUNE 30, 1974

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	5,747.112	\$ 172,259.83	161
Business	435.633	366,331.30	75
Cane*	26,988.462	660,170.25	39
County	70.869	5.00	18
Eleemosynary	583.764	17,716.85	32
Federal	31,927.150	613.00	26
Fishpond	50.867	629.40	1
Industrial	264.463	482,878.62	92
Pasture	158,002.969	127,497.58	116
Pineapple	975.245	41,957.00	3
Recreational	24.199	1,505.00	5
Residential	158.482	19,422.50	142
Rights of way	438.485	24,121.95	100
State Agencies	13,321.054	—	1
Waste	15,273.959	305.90	—
Water Licenses, etc.	27,592.076	214,294.00	12
TOTALS	281,854.789	\$2,129,708.18	823

**GENERAL LEASES ISSUED—ALL ISLANDS
JULY 1, 1973 TO JUNE 30, 1974**

Use	Area (Acres)	Annual Rental	No.
Agriculture, General	1,119.596	\$43,659.55	5
Business	3.808	557.14	2
Cane	—	—	—
County	—	—	—
Eleemosynary	3.755	183.85	4
Federal	12.600	1.00	2
Fishpond	—	—	—
Industrial .....	.110	—	1
Pasture	19.150	1,305.00	1
Pineapple	578.265	36,515.00	1
Recreational	—	—	—
Residential	25.000	1.00	1
Rights of way .....	.024	.46	1
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	1,762.308	\$82,223.00	18

**GENERAL LEASES ISSUED—HAWAII
JULY 1, 1973 TO JUNE 30, 1974**

Use	Area (Acres)	Annual Rental	No.
Agriculture, General	1,054.426	\$43,150.00	1
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary	—	—	—
Federal	2.600	1.00	1
Fishpond	—	—	—
Industrial	—	—	—
Pasture	—	—	—
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way	—	—	—
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	1,057.026	\$43,151.00	2

GENERAL LEASES ISSUED—MAUI
JULY 1, 1973 TO JUNE 30, 1974

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

GENERAL LEASES ISSUED—OAHU
JULY 1, 1973 TO JUNE 30, 1974

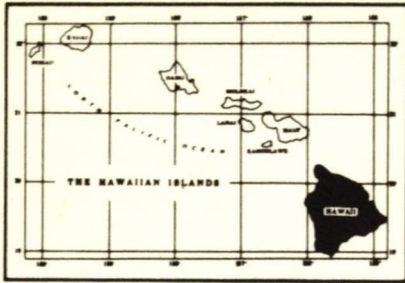
Use	Area (Acres)	Annual Rental	No.
Agriculture, General	—	\$ —	—
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary .....	.615	110.00	2
Federal	10.000	—	1
Fishpond	—	—	—
Industrial .....	.110	—	1
Pasture	—	—	—
Pineapple	578.265	36,515.00	1
Recreational	—	—	—
Residential	25.000	1.00	1
Rights of way	—	—	—
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	613.990	\$36,626.00	6

GENERAL LEASES ISSUED—KAUAI
JULY 1, 1973 TO JUNE 30, 1974

Use	Area (Acres)	Annual Rental	No.
Agriculture, General	65.170	\$ 509.55	4
Business	3.808	557.14	2
Cane	—	—	—
County	—	—	—
Eleemosynary	3.140	73.85	2
Federal	—	—	—
Fishpond	—	—	—
Industrial	—	—	—
Pasture	19.150	1,305.00	1
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of way .....	.024	.46	1
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	—	—	—
TOTALS	91.292	\$2,446.00	10

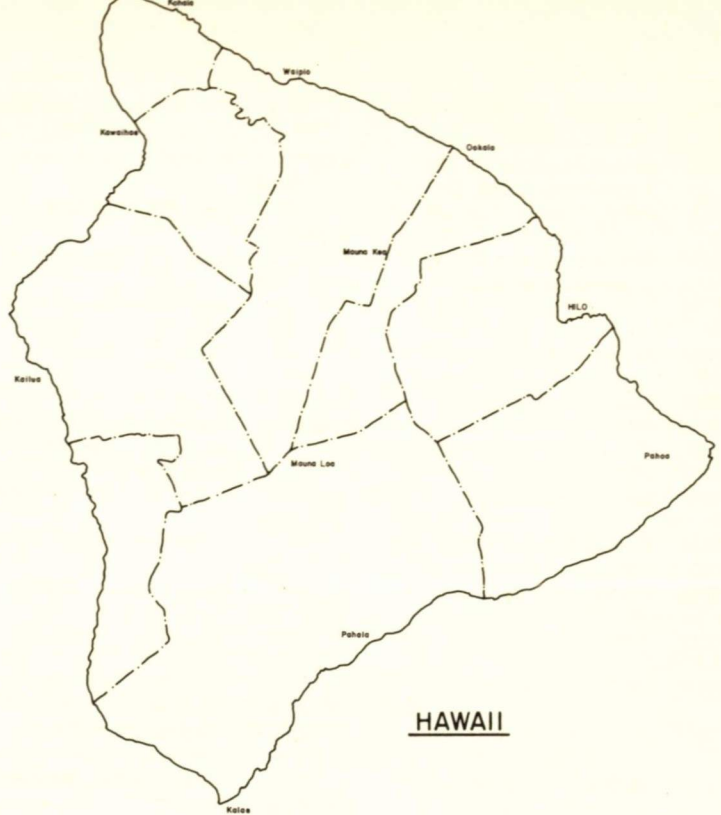
SUMMARY OF DISPOSITIONS, ALL ISLANDS—FROM JULY 1, 1973 TO JUNE 30, 1974

Counties	Executive Orders	Sales in Fee*	General Leases**	Revocable Permits**	Grand Total
HAWAII: (1st Land District)					
Number	12	3	2	13	30
Area (Acres)	338.282	1.338	1,057.026	373.541	1,770.187
Price* or Annual Rental**	\$ —	\$101,216.76	\$43,151.00	\$ 7,071.00	\$151,438.76
MAUI: (2nd Land District)					
Number	—	—	—	24	24
Area (Acres)	—	—	—	11,110.155	11,110.155
Price* or Annual Rental**	\$ —	\$ —	\$ —	\$ 62,436.00	\$ 62,436.00
OAHU: (3rd Land District)					
Number	9	9	6	38	62
Area (Acres)	132.702	1.561	613.990	59.343	807.596
Price* or Annual Rental**	\$ —	\$117,032.46	\$36,626.00	\$137,103.72	\$290,762.18
KAUAI: (4th Land District)					
Number	2	31	10	12	55
Area (Acres)	17.550	6.899	91.292	3,284.892	3,400.633
Price* or Annual Rental**	\$ —	\$243,424.00	\$ 2,446.00	\$ 67,044.00	\$312,914.00
GRAND TOTALS:					
Number	23	43	18	87	171
Area (Acres)	488.534	9.798	1,762.308	14,827.931	17,088.571
Price* or Annual Rental**	\$ —	\$461,673.22	\$82,223.00	\$273,654.72	\$817,550.94



FIRST LAND DISTRICT

Island of Hawaii



GENERAL LEASES—SUMMARY, FIRST LAND DISTRICT, JUNE 30, 1974

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	3,031.869	\$ 94,366.10	41
Business	117.304	170,715.96	35
Cane*	12,975.233	122,335.23	29
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	125.910	144,329.62	60
Pasture	132,044.839	61,457.26	37
Pineapple	—	—	—
Recreational	3.700	900.00	1
Residential	14.086	6,066.50	19
Rights of way	242.083	14,161.72	32
State Agencies	13,321.054	—	1
Waste	2,677.987	197.42	—
Water Licenses, etc.	5,875.760	8,752.00	4
TOTALS	194,963.191	\$627,893.21	286

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.	Lessee	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	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	Ocean View Lots, South Hilo	2-1-05: 17	.750	U-bus	4,764.00
2610	Finance Investment Co., Ltd. & Inter-Island Resorts, Ltd.	6/01/39-3/14/2015	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	Waiakea Warehouse Lots, Waiakea, South Hilo	2-1-06: 13 & 15	2.160	U-bus	9,578.00
2908	Matsuno F. Nakagawa (Mrs.)	11/01/42-3/31/82	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	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	Ocean View Lots, South Hilo	2-1-07: 21	.163	U-res	155.00
3156	Harvey C. Chong	11/18/46-3/14/2015	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	Ocean View Lots, Waiakea, South Hilo	2-1-07: 23	.167	U-res	366.00
3158	Yoshihiro Inouye	11/18/46-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-07: 24	.169	U-res	306.00
3160	Hannah Akamu Baker, et al. c/o Marguerite B. Frazier	11/18/46-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-07: 26	.173	U-res	159.00
3161	Hannah Akamu Baker, et al. c/o Marguerite B. Frazier	11/18/46-3/14/2015	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	Ocean View Lots, Waiakea, South Hilo	2-1-07: 28	.178	U-res	163.00
3163	Kaiva & Josephine Martinson Tuiaosopo	11/18/46-3/14/2015	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	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	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	Ocean View Lots, Waiakea, South Hilo	2-1-07: 32	.186	U-res	170.00
3167	William J. & Anna Mehau	9/10/47-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-07: 33	.188	U-res	172.50
3168	Gaspro, Limited	9/10/47-3/14/2015	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	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	Ocean View Lots, Waiakea, South Hilo	2-1-07: 36	.185	U-res	180.00
3202	Frank Ferreira, Jr.	5/01/47-11/01/2017	Lehia Park Res. Lots, South Hilo	2-1-17: 65	.425	U-res	50.00
3265	Hilo Bay Hotel, Incorporated	6/01/49-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-05: 32	.586	U-bus	2,981.00
3266	Hilo Bay Hotel, Incorporated	8/10/49-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-05: 34	.531	U-bus	2,716.00
3267	Hilo Bay Hotel, Incorporated	6/01/49-3/14/2015	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.	6/01/49-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-05: 32	.749	U-bus	4,894.00
3269	M & Associates, Incorporated	6/01/49-3/14/2015	Ocean View Lots, Waiakea, South Hilo	2-1-05: 20	.920	U-bus	9,180.00
3354	Honokaa Sugar Company	1/01/52-12/31/2008	Gov't. Remainders of Papaki, Koloaha Au 1st. Hamakua	4-6-05: 08	554.580	A-cane	904.58
3453	Laupahoehoe Sugar Company	10/01/53-9/30/74	Papaaloa, Manowaiopae & Kihalani Hmstd. Tracts, Por. Laupahoehoe, North Hilo	3-6-03		A-r/w	12.00
(D) 3454	Hilo Electric Light Company, Limited	10/01/53-9/30/74	Honokaia, Kapolena, Kamoku & Puukapu, Waimea, South Kohala	4-6-11 4-7-07	32.810	A-r/w	100.00
3455	Kohala Sugar Company	10/01/53-9/30/74	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
(D) 3456	Hilo Electric Light Company, Limited	10/01/53-9/30/74	Waiakea, South Hilo	2-4-08	.085	U-r/w	12.00
3457	Standard Oil Company of California	10/01/53-9/30/74	Waiakea-Kai, South Hilo	2-1-07	.209	U-r/w	12.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
3472	Honokaa Sugar Company	4/09/54-4/08/75	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	1/01/55-12/31/75	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	1/01/55-12/31/75	Por. Lot 22-D-1, Pohakuloa Tract, North Kohala	5-8-03: 07	83.210	A-past	1,400.00
3480	Laupahoehoe Sugar Company	4/09/54-4/08/75	Por. Pali & Gulch, Papaaloo Hmstds., North Hilo	3-5-02: 06	6.000	A-wtr	31.00
3481	The Flintkote Company	6/01/54-5/31/75	Waiakea Fish Pond, South Hilo	2-2-31	24.610	C-wtr	1.00
3482	Clarence J. Branco	4/09/54-4/08/75	Lots 812-A, 912-A & 913, Waiakea Hmstds., South Hilo	2-4-05: 01	77.865	A-past	1,081.62
3483	James R., Edward R., Yasuo & Yoshinobu Kuwaye, dba Edward R. Kuwaye & Company	6/01/54-5/31/75	Waiakea, South Hilo	2-2-58: 12	.601	U-ind	300.00
3506	Charles L. Murray	9/10/54-9/09/75	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	11/10/54-11/09/75	Lot B, Kamehameha Ave. betwn. Kalanikoa & Kanoelehua St., Waiakea, South Hilo	2-2-32: Por. 19	.339	U-bus	400.00
3508	Anna L. Perry-Fiske	11/10/54-11/09/75	Lalamilo Hselt., South Kohala	6-5-01: 32	.279	A-past	12.00
3509	William K. Thompson	11/10/54-11/09/75	Por. Pahoeohoe 1-4, Maunaoui, Haleili, Haukalua 1-2, Alae 1-2, Pahoeohoe 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	6/07/55-6/06/76	Oda Orchids, Incorporated	2-1-07	.116	U-r/w	12.00
3530	Benso Yamanouchi	11/08/55-11/07/76	Waiakea, South Hilo	2-2-32: 82	2.532	A-agr	120.00
3532	Honolulu Roofing Company, Limited	11/08/55-11/07/76	Kaumana Hselt., South Hilo	2-5-05: 74	.160	U-agr	12.00
3533	Thomas R. Araujo	11/08/55-11/07/76	Keaukaha Seaside Lots, Waiakea, South Hilo	2-1-14: 19	.420	U-res	180.00
3534	Ka'u Sugar Company, Inc. & C. Brewer & Co., Ltd.	11/08/55-11/07/76	Piihonua, South Hilo	2-3-25: 47	2.670	U-past	24.00
3566	E. L. Wung's Ranch, Limited	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 1,422.200 100.000	A-cane ws past A-past	680.30 300.00 980.30 100.00
3567	Oda Orchids, Incorporated	10/25/56-10/24/77	Olao Reservation Lots, Puna	1-8-11: 12	2.899	U-agr	100.00
3573	Hawaii Broadcasting System, Limited	11/08/58-11/07/79	Waiakea Hselt., South Hilo	2-2-37: 41	2.038	U-bus	100.00
3574	James W. Glover, Limited	8/11/59-8/10/80	Humuula, North Hilo	3-8-01: 11	74.314	U-ind	2,594.62
3575	Honpa Hongwanji Mission of Hawaii	8/11/58-8/10/79	Waiakea, South Hilo	2-1-12: 04, 06, 10 & 18, Por. 05 & 07	38.580	A-past	139.86
3576	Union Oil Company of California	9/10/58-9/09/79	Lots 7 & 8, Waiakea Cane Lots, South Hilo	2-4-01: 15 & Por. 96	.125	U-r/w	120.00
S-3583	Robert M. Yamada	11/05/59-11/04/2004	Waiakea, South Hilo	2-1-07: Por. 15 & 19	2.566	U-bus	900.00
S-3584	Pepeekeo Sugar Company	2/01/60-12/31/89	Lots 4, 6, 7, 8, Blk. 39, Lots 5 & 7, Blk. 40, Waiakea Lots, South Hilo	2-2-37	330.120 19.360 199.270 548.750 768.688 26.406 21.340 91.500 907.934 155.258 2.391 33.351	A-cane r/w ws A-cane r/w past ws	2,971.08 19.36 19.93 3,010.37 6,918.20 26.41 21.34 9.15
S-3585	Pepeekeo Sugar Company	2/01/60-12/31/89	Kamaee-Wailua & Puuoha, North Hilo	3-1-04: 01 & 02	330.120 19.360 199.270 548.750 768.688 26.406 21.340 91.500 907.934 155.258 2.391 33.351	A-cane r/w ws A-cane r/w past ws	2,971.08 19.36 19.93 3,010.37 6,918.20 26.41 21.34 9.15
S-3586	Mauna Kea Sugar Company, Incorporated	2/01/60-12/31/89	Honumu-Hukua, Kaakepa & Kaupakuea, South Hilo	2-8-11	191.000 21.000 11.100 32.100	A-cane r/w ws A-cane ws	6,975.10 1,397.32 2.39 3.34
S-3587	Honokaa Sugar Company, Limited	2/01/60-12/31/89	Kawainui, South Hilo	2-7-07: 05	191.000 21.000 11.100 32.100	A-cane ws	1,403.05 210.00

Lease No.	Lessee	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	3/01/60- 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	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	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	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	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	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	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	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	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	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	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	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 07	.775	U-ind	828.00
S-3602	Hawaii Pest Control Company, Incorporated	1/16/61- 1/15/2016	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	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	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	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	Waiakea Business & Industrial Lots, South Hilo	2-2-32: 71	2.363	U-ind	3,085.00
S-3611	Hawaii Planing Mill, Limited	1/16/61- 1/15/2016	Waiakea Business & Industrial Lots, South Hilo	2-2-32: 21	2.334	U-ind	3,660.00
S-3612	Hamakua Mill Company	2/01/61- 12/31/2008	Hoea-Kaao, Makai Tract, Hamakua	4-2-01 4-2-07	747.320 35.360 119.570 <u>175.880</u>	A-cane r/w past ws	6,725.88 35.36 298.93 <u>17.59</u>
					1,078.130		7,077.76
S-3613	Laupahoehoe Sugar Company	2/01/61- 12/31/2008	Humuula & Kahoahuna, North Hilo	3-9-01 3-9-02	818.300 6.072 16.000 <u>338.121</u>	A-cane r/w past ws	7,364.70 6.07 40.00 <u>33.81</u>
					1,178.493		7,444.58
S-3614	Laupahoehoe Sugar Company	2/01/61- 12/31/2008	Niuepa-Kealakaha, Kaala Tract	4-1-01 4-1-02 4-1-03 4-1-04	493.076 10.930 <u>156.822</u> 660.828	A-cane r/w ws	4,437.68 10.93 <u>15.68</u> 4,464.29
S-3615	Laupahoehoe Sugar Company	2/01/61- 12/31/2008	Ookala-Manowaialee, North Hilo & Hamakua	3-9-01 3-9-02	1,081.560 20.852 <u>266.031</u>	A-cane r/w ws	9,734.04 20.85 <u>26.60</u>
					1,368.443		9,781.49
S-3616	Laupahoehoe Sugar Company	2/01/61- 12/31/2008	Kaiaakea Makai Remainder, North Hilo	3-4-03	64.380 <u>15.703</u> 80.083	A-cane ws	579.42 <u>1.57</u> 580.99
S-3617	Honokaa Sugar Company	2/01/61- 12/31/2008	Kaao-Paalaea Tract, Hamakua	4-5-01	340.700 .200 <u>93.840</u> 434.740	A-cane r/w ws	3,066.30 .20 <u>9.38</u> 3,075.88
S-3618	Body and Fender Repair, Incorporated	2/06/61- 2/05/2016	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 09	.775	U-ind	1,015.00
S-3619	Mauna Kea Electric, Incorporated	2/06/61- 2/05/2016	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-49: 39	.320	U-ind	510.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3620	Shoichi Muramoto, dba Mura's Repair Shop	2/06/61-2/05/2016	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	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	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 95	.320	U-ind	545.00
S-3624	Hawaiian Equipment Company, Limited	3/06/61-3/05/2016	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	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	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	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 81	.256	U-ind	540.00
S-3654	Kohala Sugar Company	11/08/61-11/07/91	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 Hmstds., 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	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 77	.459	U-ind	468.00
S-3662	Mauna Kea Sugar Company, 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 ws	10,581.66 182.87 35.83 60.37 10,860.73
S-3669	Seven Seas, Incorporated	3/20/61-3/19/2016	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	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 98	.344	U-ind	585.00
(D) 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
(D) 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	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	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	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 Res. 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
S-3729	Hubert S. Andrews dba Andrews Trucking Service	8/23/63-8/22/2018	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 78	.241	U-ind	572.00
(D) S-3731	County of Hawaii, Board of Water Supply	7/01/64-6/30/2029	Mountain View Water System, Land Site #1, Puna	1-8-08	.181	C-cty	Gratis
(D) 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
(D) 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 1-3-07: 06	.041	A-cty	Gratis
(D) S-3739	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63-3/28/2013	Malana (Mackenzie Cave), Puna			C-cty	Gratis
S-3742	Edward R., James R., Yasuo & Yoshinobu Kuwaye dba Edward R. Kuwaye & Company	11/12/63-11/11/2018	Waiakea Industrial Lots, South Hilo	2-2-58: 14	2.165	U-ind	4,452.00
(D) 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

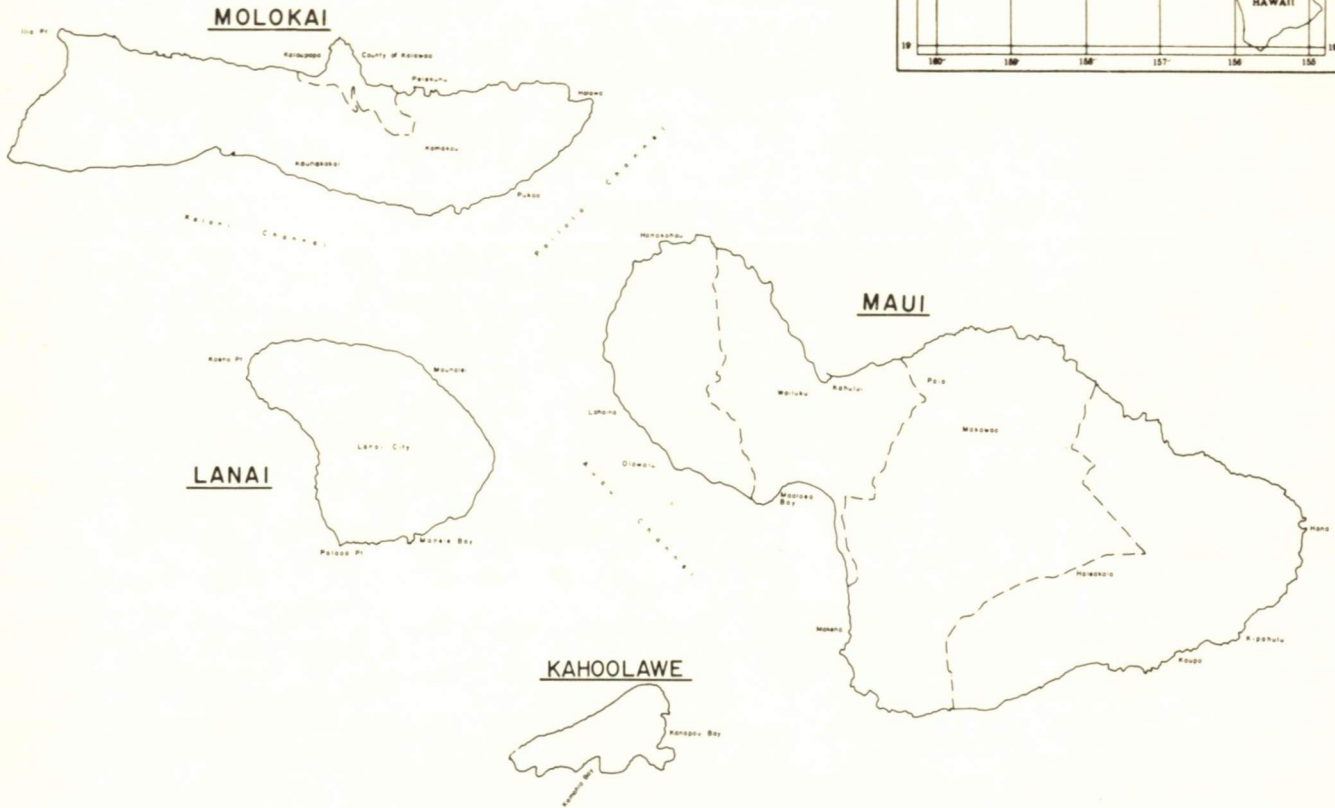
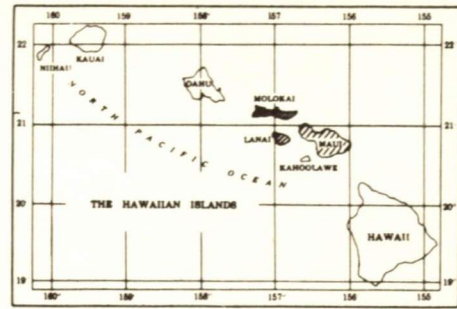
Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) S-3745	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63-4/25/2013	Pigeon Cave, Puuanahulu	7-1-04: Por. 01		C-cty	Gratis
S-3750	Jiro Tanaka dba Tanaka Electrical Service	4/26/63-4/25/2018	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-50: 76	.274	U-bus	622.00
(D) S-3751	County of Hawaii, Hilo Hospital Complex & Allied Facilities	6/07/63-6/06/2028	Piihonua, South Hilo	2-3-27	20.401	U-cty	1.00
(D) S-3752	United States of America (Navy)	12/16/63-12/15/2028	Kamaoa, Ka'u	9-3-01	21.296	A-fed	1.00
(D) 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, South Hilo	2-2-48: 01	7.855	U-bus	565.56
S-3837	Hongo Nursery, Incorporated	6/16/64-6/15/2019	Waiakea Hmstds., South Hilo	2-2-44: 04	10.000	U-bus	438.00
(D) S-3844	University of Hawaii	7/24/64-7/23/2029	Hamakua experiment farm, Kaohe	4-3-10	185.000	A-agr	Gratis
(D) S-3849	United States of America	8/17/64-8/16/2029	Pohakuloa Training Area	3-8-01: 13	22,971.000	C-fed	1.00
(D) 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
(D) 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
(D) 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	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	Puuepa-Kokoiki Hmstds., North Kohala	5-5-04: 05	7.980	A-cane	120.00
S-3870	William E. Ontai	10/28/64-10/27/94	Papa Hmstds., 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
(D) 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
(D) S-3888	Hawaiian Telephone Company	1/20/65-1/19/2030	Waiakea Hselt., South Hilo	2-2-37: 63	.895	U-ind	2,130.00
S-3908	Orchid Isle Hotels, Incorporated	4/12/65-4/11/2030	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	Kaauhuhu Hmstds., North Kohala	5-5-01: 45	6.410	A-agr	96.00
(D) 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
(D) S-3925	Hilo Electric Light Company, Limited	8/27/65-8/26/2030	Kanoelehua Industrial Lots, Waiakea, South Hilo	2-2-58	3.718	U-r/w	7,566.00
(D) 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	Waiakea Hmstds., South Hilo	2-4-06: 13	65.550	A-past	195.00
S-3932	Paauhau Sugar Company	10/18/65-10/17/85	Por. Kalopa Hmstds., Hamakua	4-4-03: 25	.730	A-agr	25.00
S-3933	Roman Catholic Bishop of Honolulu	10/18/65-10/17/2030	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	Waiakea Hselt., South Hilo	2-2-37: 66	.304	U-bus	420.00
S-3938	Frank De Luz, Jr. & Virginia De Luz	11/08/65-11/07/85	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 ws	2,330.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3949	Hawaiian Greenhouse, Incorporated	12/20/65-12/19/2000	Keonepoko Hmstds., Pahoa	1-5-07: 17	19.401	A-agr	639.10
S-3950	Kulana Foods, Limited	12/20/65-12/19/2000	Waiakea Hmstds., South Hilo	2-4-03: 10 & 11	41.200	A-past	180.00
S-3954	Tokio Miyashiro	11/24/65-11/23/2020	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	Haukalua Hmstds. 2nd, South Kona	8-7-05: 03 & 05	14.190	A-agr	165.00
(D) S-3966	Transportation Department, U.S. Coast Guard	4/15/66-4/14/2031	Hoopulua, South Kona	8-9-04	1.427	C-fed	Gratis
S-3999	Divaco Cooperative	8/16/66-8/15/2021	Hilo Industrial Dev., 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	Laupahoehoe Sugar 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 Kemau II Nakai Tract; Kaohe I; Lot 21-A, Pohakea Hmstds., Makai Section, Opihilala & Paaui, 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	Ahualoa Reserve Remnants, Ahualoa Hmstds.	4-5-11: 06	13.496	A-past	91.00
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
(D) S-4012	United States of America	1/03/66-1/02/2013	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	10/06/66-10/05/2031	Lot 1, Por. Piuhonua, South Hilo	2-3-27	3.572	U-ele	1,396.00
S-4019	Seven Seas, Incorporated	10/06/66-3/19/2016	Lots A & B, Hoolulu Business Lots, Waiakea, South Hilo	2-2-33	1.183	U-bus	2,602.00
(D) 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	11/29/66-11/28/91	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	Panaewa Farm Lots, Waiakea, South Hilo	2-4-49: 01	10.579	A-agr	510.00
(D) 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, Ka'u	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	238.00	C-ele	150.00
S-4105	James H. & Mabel M. Davis	9/06/67-9/05/2032	Puukapu, Waimea	6-4-01	.005	A-r/w	5.00
S-4107	Honokaa Sugar Company	9/06/67-12/31/2008	Lauka-Kulihai, Hamakua	4-6-01	78.460 35.810 3.710 117.980	A-cane ws r/w	1,020.00
S-4108	Honokaa Sugar Company	9/06/67-12/31/2008	Hanapai, Hamakua	4-7-04	34.700 8.850 43.550	A-cane	451.00
S-4109	Honokaa Sugar Company	9/06/67-12/31/2008	Hamakua	4-6-02	143.140 14.130 3.600 160.870	A-cane ws r/w	1,861.00
(D) S-4130	Hawaiian Telephone Company	1/01/68-12/31/2023	North Hilo	3-9-02	1.047	U-ind	36.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
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
(D) S-4139	Honolulu Gas Company, Limited	4/14/67-4/13/97	Hilo	2-2-27	.230	U-ind	510.00
S-4141	Mauna Loa Land, Incorporated	2/23/68-2/22/93	South Kohala	6-9-01	775.083	A-agr	10,000.00
(D) S-4191	University of Hawaii	1/01/68-12/31/2033	Kaohe, Hamakua	4-4-15: 09	13,321.054	C-state	Gratis
(D) 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	1/01/68-12/31/2033	South Kohala	6-3-01: 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	2/07/69-2/06/94	North Kohala	5-8-02	23.800	A-past	96.00
S-4225	Mitsuo & Yaeko Kitagawa	2/07/69-2/06/2024	Waiakea, South Hilo	2-4-49: 11	10.021	A-agr	576.00
S-4226	Joseph Chang, Sr.	2/07/69-2/06/89	Kokoiki, North Kohala	5-5-04: 51 & 52	4.934	A-agr	45.00
S-4227	Island Holidays, Limited	2/07/69-2/06/2034	Kahaluu, North Kona	7-8-13	.128	U-r/w	128.25
(D) S-4234	University of Hawaii	12/15/67-12/14/2032	Olaa, Puna	2-4-08: 21	.014	C-r/w	Gratis
(D) 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	Kaaluau, Kiolaakaa, Ka'u	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	8/09/69-8/08/94	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-Kiioakalani 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	Puuanahulu Hmstds., 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	Ka'u Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69-9/28/2004	Hionaa & Kaalaiki, Ka'u	9-7-01	1,791.489	A-cane	7,150.00
S-4261	Ka'u Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69-9/28/2004	Kapapala & Kaalaala, Ka'u	9-7-01: 01	539.562	A-cane	2,150.00
S-4262	Ka'u Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69-9/28/94	Waiohinu, Ka'u	9-5-05: 01 & 02 & 03 8-5-03: 46	378.780	A-cane	4,972.00
S-4263	Ka'u Sugar Company, Incorporated & C. Brewer Company, Limited	9/29/69-9/28/94	Kapapala, Ka'u	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

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
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	Ka'u Sugar Company, Incorporated & C. Brewer Company, Limited	1/20/70-1/19/95	Hionaa-Kaalaiaki Tract, Ka'u	9-5-15: 03	1,669.000 80.000 448.290 2,197.290	A-cane con ws	27,104.00
S-4283	Kapalama Commercial Center	1/20/70-1/19/2010	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, Honokaa Makai Tract, Hamakua	4-6-03 4-6-04	477.100 23.430 165.919 666.449	A-cane r/w ws	9,050.00
S-4286	Koshi Miyasaki	1/20/70-1/19/85	Keanakolu Orchard-Arboretum, Humuula, North Hilo	3-7-01	39.308	A-agr	1,105.00
S-4287	Antone Teixeira & Helen Teixeira	1/20/70-1/19/2025	Easement-Pohakuhaku & Kemau, Hamakua	4-3-06	.330	A-r/w	60.00
(D) S-4288	Honolulu Gas Company, Limited	5/07/69-5/06/2024	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 Hmstd., Makena & Kaimu, Puna	1-2-06	378.131	A-past	350.00
S-4300	Pohaku Enterprises, Incorporated	5/12/70-5/11/2025	Hilo Ind. Dev., Pohaku St., Waiakea, South Hilo	2-2-58: 35	1.435	U-ind	8,000.00
S-4302	Robert M. Yamada, et al. dba Yamada Transfer	5/12/70-5/11/2025	Por. Gov't. land of Waiakea, Lot A, Block 40, Waiakea Hselt. & 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	Waiakea Hselt. 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	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	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	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	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	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	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	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	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	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	2/01/71-1/31/2046	Por. Gov't. Land at Waiakea	2-4-25: 01	1.025	U-ele	1.00
(D) S-4320	Hawaiian Telephone Company	1/01/70-12/31/2035	Halai Hill, Hilo	2-3-22: Por. 37	.321	U-r/w	73.00
S-4323	C. Brewer and Company, Limited	11/10/70-11/09/2035	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	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	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	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	Waiakea Hselt., South Hilo	2-2-37: 56	.448	U-ind	3,175.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4334	Hawaii United Resources, Incorporated	4/16/71-4/15/1996	Panaewa Farm Lots, South Hilo	2-4-49: 24	10.231	A-agr	900.00
S-4335	Tapley P. Jordan, Jr.	4/16/71-4/15/1991	Olelomoana Hmstds., South Kona	8-7-13: 10	40.600	A-agr	1,150.00
S-4336	Solomon Thompson	4/16/71-4/15/1991	Haukalua Hmstds.	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 Hselts., 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	2-3-27: 25	2.052	U-bus	5,000.00
(D) S-4351	University of Hawaii	3/10/72-3/09/2037	Student Housing Site, Waiakea, South Hilo	2-4-01: 07	6.566	U-res	Gratis
S-4355	Honpa Hongwanji Mission of Hawaii	5/01/72-4/30/2027	Waiakea Cane Lots (Por.)	2-4-01: 116	4.000	U-res	2,820.00
(D) S-4357	Daughters of Hawaii	8/25/72-8/24/2037	Old Palace Lot, Kailua, North Kona	7-5-07: 20	1.284	U-ele	100.00
(D) S-4358	University of Hawaii (Board of Regents)	8/01/72-7/31/1982	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	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	Haleohiu Hmstds., 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 Kaumana, South Hilo	2-5-02: 01	95.400	A-agr res	600.00
S-4363	Glenn Gayne Au	8/17/72-8/16/2027	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	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	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	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
S-4379	Economy Motors, Incorporated	5/16/73-5/11/2010	Waiakea Hselts. Ext., Waiakea, South Hilo	2-2-58: 36	.895	U-ind	7,000.00
S-4380	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
S-4381	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
S-4382	Tapley P. Jordan, Jr.	5/16/73-5/15/98	Opihikao Hmstds., Puna	1-3-03: 16	52.100	A-agr	1,300.00
S-4383	Tapley P. Jordan, Jr.	5/16/73-5/15/98	Papa Hmstds., Papa 1, South Kona	8-8-04: 10	7.850	A-agr	400.00
S-4391	Hawaii Biogenics, Limited	1/17/74-1/16/2029	Opihipau-Hakiaa, Hualuu-Kahei Gov't. Tracts	5-5-03 5-5-06 5-5-07 2-1-09	1,054.426	A-agr	43,150.00
S-4400	United States of America	4/10/74-4/09/84	Tract 1, Hilo Breakwater Project, Waiakea, South Hilo	6-5-04	2.600	U-fed	1.00 (Full Term)
S-5000	Tsugio Sakata	3/31/67-3/30/2032	Por. Gov't. Land of Waimea, South Kohala	2-2-32: 10	.012	U-r/w	11.00
S-5001	K. Kobata & Sons, Incorporated	3/31/67-3/30/2022	Waiakea, South Hilo	4-4-13: 11	.988	U-bus	4,262.00
S-5002	Aiea Dairy, Limited	3/31/67-3/30/92	Kaapahu Hmstds., Hamakua	2-4-06: 12 2-4-07: 37	20.500	A-past	250.00
S-5003	Rudy & Ann Hirota	3/31/67-3/30/92	Waiakea Hmstds., South Hilo	4-3-15: 10	68.670	A-past	330.00
S-5004	Sueichi & Yoshiko Kawashima	3/31/67-3/30/92	Paauilo, Hamakua	1-5-08: 05	3.040	A-agr	46.00
S-5005	Marjorie Corley	3/31/67-3/20/2002	Keonepoko-Nui, Puna	1-7-01: 63	5.000	A-agr	65.00
S-5015	Motoshi Sako	5/19/67-5/18/2002	Por. of Gov't. Land of Olaa, Puna	6-6-04	.466	U-bus	485.00
S-5017	Mary K. Phillips	5/19/67-5/18/2032	Por. Lalamilo, Waimea, South Kohala	2-1-05: 21 & 31	.033	U-r/w	22.00
S-5018	Nalei, Incorporated	5/19/67-5/18/2032	Ocean View Lots, Waiakea, South Hilo	6-3-02: 04 & 05	1.090	U-bus	10,600.00
S-5019	Kohala Ditch Company, Limited	5/19/67-12/31/91	Hamakua & North Kohala	5-6-01: 01	5,845.000	C-wtr	8,000.00
S-5020	Kohala Sugar Company	5/19/67-5/18/1992	Awalua-Haena Gov't. Tract, North Kohala		.85.550 8.800 14.480 22.250	A-cane r/w ws past	1,856.00
					231.080		67.00 1,923.00



SECOND LAND DISTRICT

Island of Maui

GENERAL LEASES—SUMMARY, SECOND LAND DISTRICT, JUNE 30, 1974

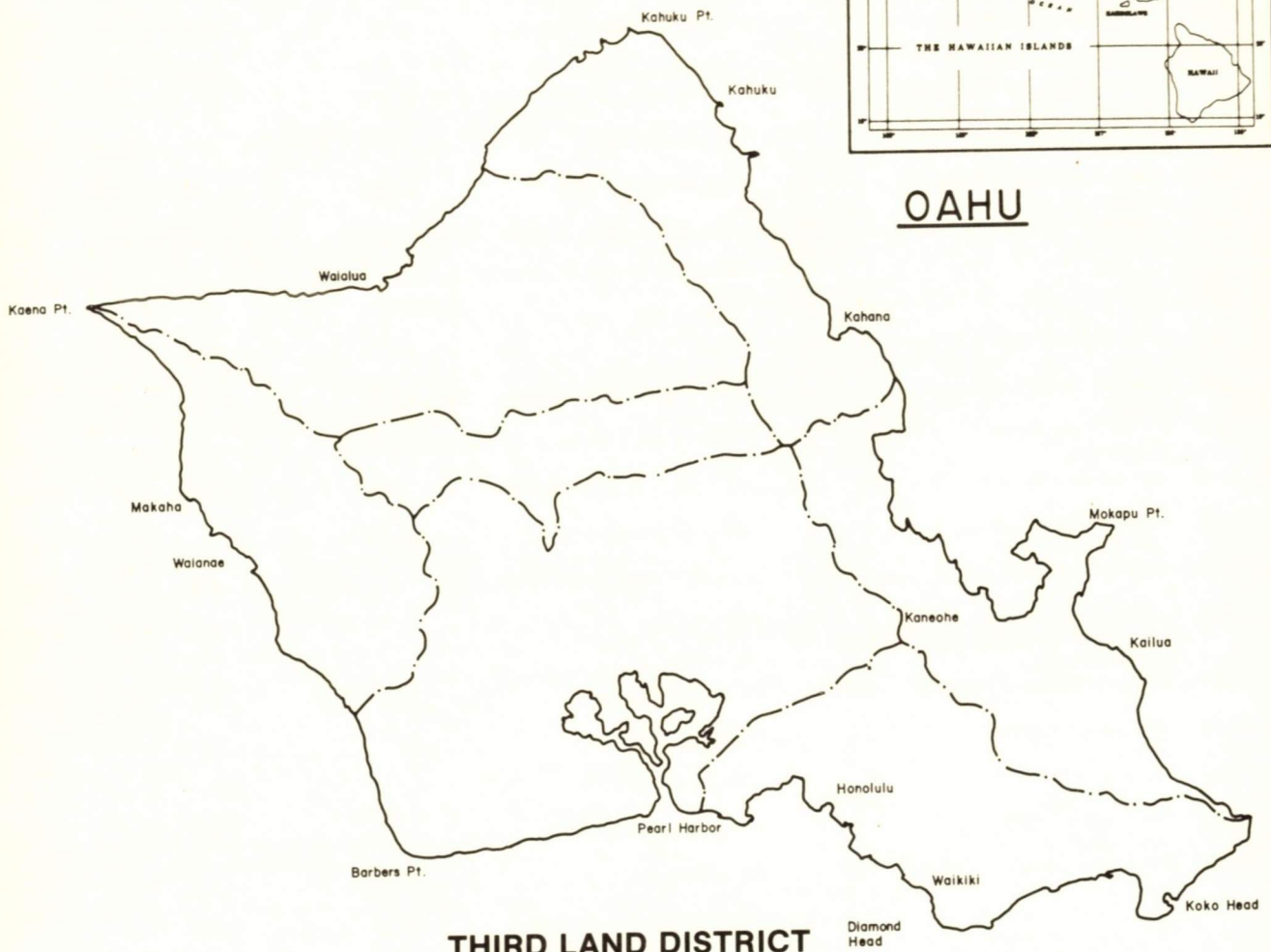
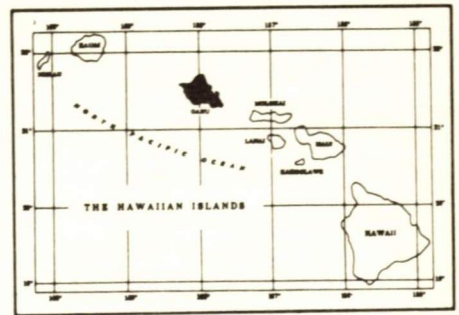
Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	1,523.676	\$ 22,054.98	24
Business	112.043	16,006.00	4
Cane*	3,810.633	101,090.02	7
County	—	—	1
Eleemosynary	50.453	431.00	5
Federal	5.981	—	2
Fishpond	—	—	—
Industrial	1.262	1,800.00	2
Pasture	11,971.032	26,728.83	38
Pineapple	396.980	5,442.00	2
Recreational	7.742	150.00	1
Residential	6.800	1,477.00	3
Rights of way	26.096	3,191.92	11
State Agencies	—	—	—
Waste	938.611	108.48	—
Water Licenses, etc.	20,050.940	74,530.00	3
TOTALS	38,902.249	\$253,010.23	103

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
3488	Tatsuo Suehiro	6/28/54-6/27/75	Alamihī, Lahaina	4-5-05: 16	.145	U-agr	16.00
3499	Manuel Souza, et al. Trustees for Apostolic Church of Honolulu	6/28/54-6/27/75	Alamihī, Lahaina	4-5-05: 17	.260	U-ele	26.00
3495	Joseph Young	6/28/54-6/27/75	Wailua Hmstds., Koolau	1-1-05: 36	1.800	A-agr	44.00
3496	Margaret M. Rossi	6/28/54-6/27/75	Keanae Hmstds., 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	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	W. Papaaea, Hamakualoa	9-9-13: 14	79.100	A-past & C	100.00
3500	Ah Chow Atai	6/28/54-6/27/75	Honomanu Hmstds., Koolau	1-1-01: 45 & 46	4.440	C-past	24.00
3501	Pearl Friel (Mrs.)	6/28/54-6/27/75	E. Ohia	5-6-06: Por. 18	56.440	A-past	50.00
3505	East Maui Irrigation Company, Limited	7/01/55-6/30/76	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	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	Papaauhau Remnants	1-4-03: 07 & 08	26.070	A-past	78.00
3515	Frank Tavares Pacheco	4/25/55-4/24/76	Hanehoi, Hamakualoa	2-9-10: Por. 10 & 12 2-9-11: 13	52.650	A-past	175.00
(D) 3535	Maui Electric Company, Limited	1/16/56-1/15/77	Por. Waiakoa & Papaanui	2-3-05	4.762	C-r/w	24.00
3536	Hawaiian Broadcasting System, Limited	3/01/56-2/28/77	Kolekole Hill, Papaanui, w/ easement, Makawao	2-2-07: 09	2.570	C-bus	96.00
3537	Wailuku Sugar Company	1/16/56-1/15/77	Kahakuloa, Kaanapali	3-1-06: Por. 03	136.400	C-past	300.00
L-3578	East Maui Irrigation Company, Limited	7/01/60-6/30/81	Huelo License, Honopou, Hamakualoa	2-9-14	6,630.840	C-wtr	50,010.00
3588	Pioneer Mill Company, Limited	1/01/60-12/31/89	Honokowai, Lahaina	4-4-01	798.900 23.390 200.810 <u>101.500</u> 1,124.600	A-cane con past ws	19,972.50 233.90 602.43 25.38 20,834.21
S-3636	Samuel & Mary Kaauamo	4/14/61-4/13/76	Wailua Hmstd. Tract, Wailua (Koolau)	1-1-04: 28	1.250	A-agr	25.00
S-3637	Marion R. & Emma L.L. Rogers	4/14/61-4/13/91	Kawaipapa, including Loko Waiohonu, Hana	1-3-07: Por. 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: Por. 09	157.940	A-pine	3,800.00
S-3640	Ulupalakua Ranch, Incorporated	4/28/61-4/27/82	Nahiku Hmstds., 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	Haleakala Tract, Makawao, Hamakuapoko	2-4-16: Por. 01	150.700	A-past	1,650.00
S-3683	Frank Cuelho, Sr.	3/12/62-3/11/82	Pukoo, Molokai	5-7-05: Por. 26	142.890	A-past	300.00
S-3684	Maui County Council, Incorporated, Boy Scouts of America	1/12/62-1/11/82	Kahakuloa Hmstds., Wailuku (Kaanapali)	3-1-01: 29	47.680	A-ele	60.00
S-3685	Wailuku Sugar Company	1/12/62-1/11/82	Kahakuloa Hmstds., Wailuku (Kaanapali)	3-1-01: 01	194.510	A-past	1,825.00
S-3687	Wailuku Sugar Company	1/12/62-1/11/82	Ili, Kou situate on main Gov't. Road at Waiehu, Wailuku	3-2-13: Por. 08	12.480	A-cane	735.00
S-3695	East Maui Irrigation Company, Limited	7/01/62-6/30/86	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
S-3700	Ulupalakua Ranch, Incorporated	3/19/62-3/18/82	Kanaio & Kaunuahano, Kalo Tract, incl. Lots 1-17, Kanaio Hmstds., Honuaua	2-1-02 2-1-03 2-1-04	8,370.000	A-past & C	5,000.00
S-3701	Haleakala Ranch Company	3/19/62-3/18/82	Nakula Mauka Tract, Kaupo & Kahikinui	1-8-Por. 05 1-9-Por. 08	423.200	A-past	3,714.00
S-3717	West Maui AJA Veterans Club	11/05/62-11/04/87	Wahikuli Hselt, Lahaina	4-5-14: 51	.460	U-ele	120.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) S-3741	United States of America, Federal Aviation Agency	7/01/64-6/30/84	Kealahou, Ukumehame	3-6-01: 07 & 08	1.531	C-fed	Gratis
(D) S-3749	United States of America, Corps of Engineers (Army)	4/19/63-4/18/2028	Papaanui, Makawao (Honuaula)	2-2-07: 05	4.450	C-fed	Gratis
S-3817	Maui Young Men's Christian Association	11/24/64-11/23/2019	Keanae, Hana (Koolau)	1-1-02: 09	7.742	A-rec	150.00
S-3820	Roy F. Bodnar	4/08/64-4/07/84	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-3822	Walter F. Teixeira	4/08/64-4/07/84	Upper Kualopa Lots, Makawao	2-1-05: 01	20.820	A-past	85.00
S-3823	Victoria Kanoa	4/08/64-4/07/75	Keanae & Poalimas, Par. 1 & 2, Keanae, Koolau, adj. to Lot 3, L.C. Appl. 240, Hana	1-1-03: Por. 33, 43 & 44	1.497	A-agr	48.00
S-3824	Anthony DeCoite	4/08/64-4/07/84	Paehala Tract, Paehala, Hana	1-5-11: 14, 15 & 29	48.100	A-past & C	105.00
(D) 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
(D) 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	6/02/64-6/01/84	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
(D) S-3918	University of Hawaii	5/28/65-5/27/2030	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 & Par. 54, Wailua Hmstds., 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 Hmstds., 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	6/01/66-5/31/86	Por. Honouliwai, makai of Molokai Forest Reserve	5-8-03 5-8-15	577.000	A-past	1,851.00
S-3964	Joseph K. & Christy D. Daniels	6/01/66-5/31/86	Waiohono-Kakio Hmstds., Hana	1-4-11: 04	35.850	A-past	90.00
S-3965	Samuel Kaauamo	6/01/66-5/31/86	Wailua Hmstds., Hana	1-1-05: 52	2.630	A-agr	34.00
S-3984	Pioneer Mill Company, Limited	7/11/66-7/10/86	Lahainaluna Sch. lands, Lahaina	4-6-18: 04	69.400 15.100 84.500	A-cane past ws	1,735.00
S-3985	Pioneer Mill Company, Limited	7/11/66-7/10/86	Lahainaluna Sch. lands, Lahaina	4-6-18: 06 & 10	162.600 37.840 104.760	A-cane ws	950.00
S-4013	Obed Sniffen	10/17/66-10/16/86	Kahakuloa Hmstds., Wailuku	3-1-01: 23	56.010	A-past	45.00
S-4015	Joe Castro, Jr.	10/17/66-10/16/86	Kahakuloa Hmstds., 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 & Kakiu, Hana	1-3-04	421.170	A-agr	700.00
(D) S-4028	Hawaiian Telephone Company	7/01/66-6/30/2031	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	3/07/68-3/06/88	Hamoia, Hana	1-4-07: 07	1.000	A-past	15.00
S-4190	Joseph Young	3/07/68-3/06/88	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 Hmstds., Wailua	1-1-04: 06 & 18	2.180	A-agr	35.00
S-4194	Dr. Louis R. Prucher	5/22/68-5/21/88	Omaopio, Makawao (Kula)	2-3-03: 23	3.339	A-agr	105.98
S-4195	Joseph B. & Jeanette M. Di Meo	4/22/68-4/21/2033	Kamaole (Kula)	3-9-05: 46	.217	U-bus	710.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4197	Alexander & Baldwin, Incorporated	7/01/68-6/30/2003	Pulehunui & Waikapu, Wailuku	3-8-08	1,207.618 296.415 371.240 1,875.273	A-cane con ws	41,416.00
S-4209	Charles M. & Mary J. Kong	10/03/68-10/02/2023	Kearnae Hmstds., Kearnae, Hana (Koolau)	1-1-03: 70	1.100	A-agr & C-res	1,070.00
S-4210	Herbert Aronson	10/03/68-10/02/2023	Kearnae, 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 Hmstds., Kula	2-2-15: 16	16.550	A-past	120.00
S-4212	John J. Fagan & Walter C. Witte	9/04/68-9/03/2033	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 ws 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	Omapiio, 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	Kearnae & Pahoa, Hana	1-1-08: 08	148.700	A-past	410.00
S-4241	Naoki Tokuhisa	6/04/69-6/03/94	Hamakualoa, Makawao	2-9-06: 21, 22 & 23	53.330	A-past	600.00
S-4242	Steven DeCoite & Florence Harold	6/04/69-6/03/94	Honokala, Hamakualoa	2-9-05: 20 & 32	28.420	A-past	355.00
S-4269	Friendly Isle, Incorporated	11/08/69-11/07/2034	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 Hanakaoo, 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
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	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 Hmstds., Hana (Koolau)	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 Hmstds., 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 Hmstds., 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 res	1,400.00
(D) S-4372	U.S. Department of Agriculture, Soil Conservation Service	1/01/73-12/31/98	Par. A, Molokai Farm Lots, Palaa-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	R-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

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
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	Kaakakai Gulch, Kohoilo, Makawao (Kula)	2-3-07: Por. 15	14.100	A-past	330.00
S-4378	Mahendra Rudra Sharma	5/11/73-10/16/2001	Wakiu, Hana	1-3-04: 12	743.650	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 ws	870.00
S-5010	Edward B. Perreira & Sylvia M. Perreira	5/23/67-5/22/87	Wailua-Nui, 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	Kahakuloa Hmstds., Wailuku	3-1-01: 04	78.600	A-past	60.00



THIRD LAND DISTRICT

Island of Oahu

GENERAL LEASES—SUMMARY, THIRD LAND DISTRICT, JUNE 30, 1974

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	800.635	\$ 43,960.00	51
Business	156.440	120,043.20	10
Cane*	—	—	—
County	3.229	2.00	2
Eleemosynary	242.276	12,876.00	15
Federal	7,270.888	8.00	12
Fishpond	—	—	—
Industrial	105.599	318,466.00	26
Pasture	3,213.068	8,185.00	6
Pineapple	578.265	36,515.00	1
Recreational	6.190	150.00	1
Residential	25.000	1.00	1
Rights of way	58.337	4,533.85	42
State agencies	—	—	—
Waste	—	—	—
Water Licenses, etc.	1,534.126	32,612.00	2
TOTAL	13,994.053	\$577,352.05	169

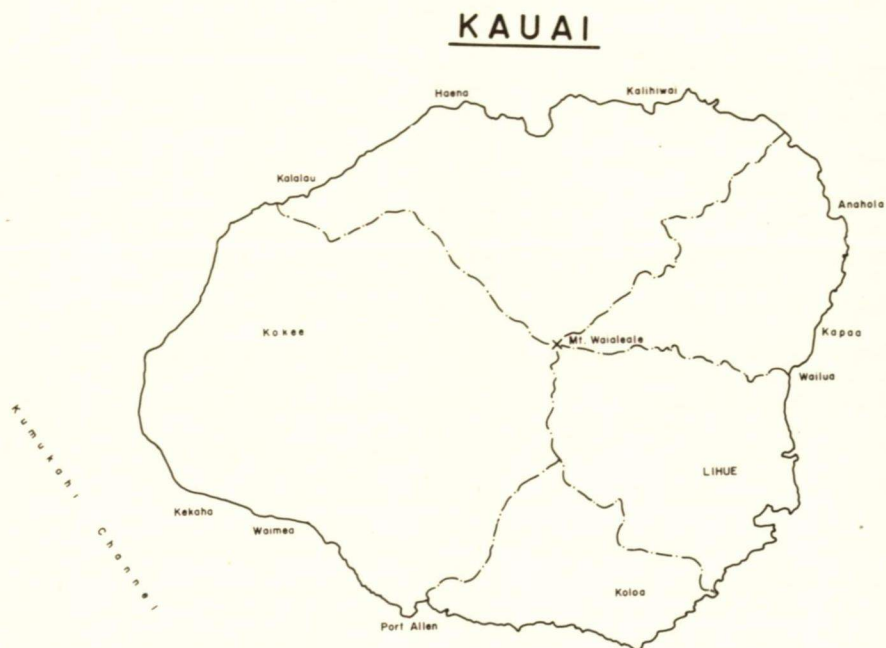
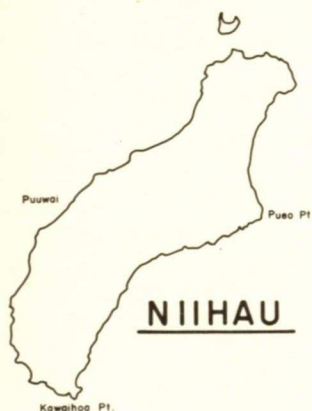
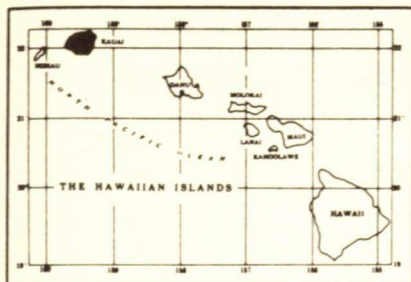
Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
L-1755	Hawaiian Electric Company, Limited	4/07/26-Indefinite	Auwaiolimu & Kewalo		.210	U-r/w	1.00
L-1756	Hawaiian Electric Company, Limited	6/21/21-Indefinite	Waialea, Koolauloa		1.020	C-r/w	12.00
L-2955	Hawaiian Electric Company, Limited	5/25/48-5/24/98	Schofield Barracks		.548	U-fed	1.00
3459	Hawaiian Electric Company, Limited & Hawaiian Telephone Company	12/07/53-12/06/74	Pupukea-Paumalu, Koolauloa	5-9-05	.025	U-r/w	12.00
3465	Hawaiian Trust Company, Limited	12/07/53-12/06/74	Hotel St., Honolulu	2-1-25	.086	U-bus	12.00
L-3471	Hawaiian Bitumuls & Paving Company, Limited	4/05/54-4/04/75	Kaena, Waialua	6-9-01	76.376	U-ind	76.00
L-3502	Hawaiian Electric Company, Limited & Hawaiian Telephone Company	10/27/54-10/26/75	Kewalo & Kalawahine, Honolulu	2-5-10 2-5-19	.729	U-ind	30.00
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	7/07/55-7/06/76	Kewalo & Kalawahine, Honolulu	2-5-19	.627	U-r/w	24.00
3544	The Eye of the Pacific, Incorporated	2/21/56-2/20/77	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	8/01/56-7/31/77	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 7-3-01	3.075	U-ind	9,000.00
(D) 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 2-6-13	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
(D) 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
(D) S-3748	United States of America (Federal Aviation Agency)	4/19/63-4/18/2028	Mokuleia Forest Reserve	8-5-06: 03	53.630	C-fed	Gratis
(D) S-3806	Honolulu Redevelopment Agency, City & County of Honolulu	4/01/64-3/31/75	Lot B, Iwilei Gov't. Lots	1-5-07: 14	2.409	U-bus	1.00
(D) S-3808	City & County of Honolulu	6/17/64-6/16/2029	Pouhala & Ulumoku, Waialea, Ewa	9-3-01 9-3-02	45.810	C-r/w	1.00
S-3809	Canadian Overseas Telecommunication Corporation	4/02/64-4/01/2029	Keawaula, Waianae	8-1-01	3.979	C-ind	1,000.00
S-3811	Consolidated Amusement Company, Limited	4/02/64-4/01/2029	Kalauao, Ewa	9-8-11: 11	.015	U-r/w	125.00
(D) S-3813	United States of America (Navy)	7/01/64-6/30/79	Nanakuli, Lualualei, Waianae	8-9-06: Por. 01 8-7-08: 26 8-7-06: Por. 03 1-6-09: 04	.397	U-r/w	1.00
(D) S-3843	City & County of Honolulu (Maluhia Hospital)	2/26/65-2/25/2030	Betwn. S. of Hala Dr. & N. of Kuakini St. ext., adj. Blk. 1, Sec. C, McInerny Tract & Sec. C, Lanakila Tract, Kalaepohaku, Kapalama		3.090	U-cty	1.00
(D) S-3845	United States of America (Army)	8/17/64-8/16/2029	Kaena Point Tracking Station		137.980	C-fed	1.00
(D) 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
(D) 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
(D) S-3850	United States of America (Army)	8/17/64-8/16/2029	Kahuku Training Area	5-8-02: 02 5-9-06: 26 2-1-58	1,149.720	C-fed	1.00
(D) S-3864	University of Hawaii	7/01/65-6/30/2030	Kaakaukukui, Honolulu		6.071	U-ele	1.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) 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
(D) S-3897	Hawaiian Electric Company, Incorporated	3/11/65- 3/10/2030	HHL, Nanakuli	8-9-07	2.164	U-r/w	84.00
(D) 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	Auwaiolimu Lots, Honolulu	2-2-06: 25	.299	U-r/w	600.00
(D) 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
(D) 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
(D) 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
(D) 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
(D) 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
(D) 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
(D) S-3924	United States of America (Army Corps of Engineers)	12/01/65- 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
(D) S-3963	United States of America (Army Corps of Engineers)	1/01/65- 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
S-3996	Y. Hata & Company, Limited	8/05/67- 8/04/2022	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	4/01/68- 3/31/2033	Moanalua	1-1-03	6.190	U-rec	150.00
S-4017	Aloha Council, Boy Scouts of America	6/10/66- 6/09/96	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 For. Res., Waialua	6-7-03	.106	C-bus	330.00
(D) S-4094	City & County of Honolulu	12/17/65- 12/16/2030	Kapahulu, Waikiki, Honolulu	3-1-42	.139	U-cty	1.00
(D) S-4096	University of Hawaii	9/01/67- 8/31/77	Waimanalo	4-1-26: 02 & 21	127.282	A-agr	Gratis
(D) S-4100	Army & Air Force Exchange Service	11/01/67- 10/31/2032	Kaakaukui, Honolulu	2-1-58	2.500	U-fed	1.00
(D) 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	3-9-15	.650	U-r/w	255.00
S-4113	Val's U-Drive, Incorporated	10/10/67- 10/09/2007	Moanalua	1-1-06	.676	U-ind	10,900.00
S-4114	Jack & Jean Altman	10/10/67- 10/09/2007	Moanalua	1-1-06	.909	U-ind	14,300.00
S-4115	Associated Masons, Limited	10/10/67- 10/09/2007	Moanalua	1-1-06	.945	U-ind	12,200.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4116	Valdastri, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	1.013	U-ind	15,600.00
S-4117	Shafter Land Corporation	10/10/67-10/09/2007	Moanalua	1-1-06	1.013	U-ind	15,300.00
S-4118	Harders Company, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	1.013	U-ind	16,400.00
S-4119	W.E. Fallon	10/10/67-10/09/2007	Moanalua	1-1-06	1.094	U-ind	18,600.00
S-4120	Pacific Finance, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	1.010	U-ind	15,500.00
S-4121	Paul Simpson, Incorporated	10/10/67-10/09/2007	Moanalua	1-1-06	.918	U-ind	15,600.00
S-4122	W.T. Chang Contractors, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	.507	U-ind	7,500.00
S-4123	Douglas K. Takata	10/10/67-10/09/2007	Moanalua	1-1-06	.566	U-ind	9,600.00
S-4124	Oahu Plumbing & Sheet Metal, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	.574	U-ind	9,100.00
S-4125	Oahu Development Corporation	10/10/67-10/09/2007	Moanalua	1-1-06	.574	U-ind	9,600.00
S-4126	Headrick Development, Incorporated	10/10/67-10/09/2007	Moanalua	1-1-06	.574	U-ind	9,900.00
S-4127	Quality Sheetmetal Company, Limited	10/10/67-10/09/2007	Moanalua	1-1-06	.574	U-ind	9,500.00
(D) S-4129	United States of America (Federal Aviation Administration)	6/01/67-5/30/2032	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	12/05/68-12/04/2033	Kapalama, Honolulu	1-5-34	.112	U-r/w	915.00
S-4217	Ernest W. Albrecht	12/05/68-12/04/2033	Puea, Waianae	8-5-05	.612	A-r/w	21.00
S-4218	Waipahu Soto Zen Temple Taiyoji	12/05/68-12/04/2033	Cemetery Lot, Pouhala, Waikele, Ewa	9-4-27: 124	.229	U-ele	12.00
(D) S-4220	University of Hawaii	1/29/69-1/28/2034	Kaimuki Tract 49, Kapahulu	3-2-31	8.000	U-ele	Gratis
(D) S-4223	Hawaiian Telephone Company	3/01/66-2/28/2031	Mt. Kaala, Mokuleia, Waialua	6-7-03	.055	C-r/w	300.00
S-4266	Mokuleia Ranch & Land Company, Limited	9/04/69-9/03/94	Kuaokala & Kealia, Waialua	6-8-02: 07 6-9-03: 02	1,884.695	A-past	2,350.00
S-4267	John K. & Sara L. Nakoa	9/04/69-9/03/2034	Palolo Valley, Por. Anuenue Elementary School	3-4-04	.031	U-r/w	31.17
S-4268	Hualalai Construction Company, Limited	9/04/69-9/03/2034	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 Ind. 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	1/01/71-12/31/2000	Kahana, Koolauloko	4-8-13: Por. 01 5-2-01: Por. 01	1,534.000	C-wtr	32,600.00
S-4337	American National Red Cross	9/01/71-8/31/2036	Kapahulu, Waikiki	3-1-42	1.000	U-ele	1.00 Full term
(D) S-4352	Hawaii Association for Retarded Children	5/12/72-5/11/2037	Por. 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	120.00
(D) S-4354	Hawaiian Telephone Company	11/01/71-12/31/74	Por. Diamond Head Reservation, Kapahulu, Waikiki, Honolulu	3-1-42: Por. 19	1.571	U-bus	11,326.20
(D) S-4356	Daughters 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	11/06/72-11/05/2037	Moanalua, Honolulu	1-1-63	.141	U-r/w	75.38

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-4368	Hualalai Construction Company, Limited	11/06/72-11/05/2037	Shafter Flats Ind. Dev., Unit II, Moanalua, Honolulu	1-1-64: 26	.360	U-r/w	276.92
S-4369	The Research Corporation of the University of Hawaii	11/01/72-10/31/2037	Lualualei, Waianae	8-6-01	14.352	U-ele	1.00
(D) S-4384	United States Postal Service	6/29/73-6/28/2028	Honolulu	2-4-12 2-4-13	2.591	U-bus	Full term 29,400.00
S-4385	Del Monte Corporation	7/06/73-12/31/79	Pouhala Mauka, Pouhala, Waialeale	9-4-12: 01, 02 & 03	578.265	A-pine	36,515.00
S-4387	Lester McCoy Boys' Club dba Boys' Club of Honolulu	9/01/73-8/31/2023	Por. Washington Intermediate School, Pawaa	2-3-26	.565	U-ele	Gratis
(D) S-4390	United States of America (Army)	11/05/73-11/04/78	Lot 1103 B, adj. Hickam Air Force Base	1-1-02: Por. 04	10.000	U-fed	Gratis
(D) S-5006	University of Hawaii	6/01/67-5/31/2032	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	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 31	3.429	A-agr	355.00
S-3754	Chozen Kanetake	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 32	4.147	A-agr	360.00
S-3755	Ronald H. Deisseroth	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 33	5.106	A-agr	350.00
S-3756	James Suenaga	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 34	5.193	A-agr	290.00
S-3757	Raymond M. & Lily T. Kam	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 40	3.742	A-agr	300.00
S-3758	Kazuto Yamada	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 41	4.094	A-agr	350.00
S-3759	Kawahara Nursery & Landscaping Company, Limited	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 42	4.486	A-agr	375.00
S-3760	Kaname & Ethel H. Tanaka	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 43	4.635	A-agr	390.00
S-3761	Philip P. Minn Nurseries, Limited	2/02/64-2/01/84	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 44	4.014	A-agr	360.00
S-3762	Henry Hiroshi Miyamoto	2/02/64-2/01/84	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 46	5.137	A-agr	420.00
S-3763	William K. & Charlotte K. Fuller	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 48	5.256	A-agr	410.00
S-3764	Evergreen Nurseries, Incorporated	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 20	3.228	A-agr	295.00
S-3765	James I. Kuroiwa, Jr. & Patricia Hee Kuroiwa	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 30	7.787	A-agr	560.00
S-3766	Rodney H. & Iris T. Fukui	12/02/63-12/01/2000	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 29	7.001	A-agr	725.00
S-3767	Kazuto & Ayako Yamada	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 28	7.195	A-agr	515.00
S-3768	Stanley S. Kawabata	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 27	6.836	A-agr	515.00
S-3769	Mun On & Rosalind K. Chang	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 26	5.515	A-agr	540.00
S-3770	Hiroshi & Sallie Ikene	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 25	5.794	A-agr	430.00
S-3771	Samuel L.W. Kapahua	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 19	10.005	A-agr	1,000.00
S-3772	Herbert Suzuki	2/02/63-2/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 18	6.521	A-agr	1,300.00
S-3773	Lloyd W. Martin	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 11	9.565	A-agr	650.00
S-3774	Katsumi Mashita	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 10	8.541	A-agr	585.00
S-3775	Rainbow Properties, Incorporated	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 09	8.860	A-agr	600.00
S-3776	Howard E. & Naomi Chaille	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 12	8.513	A-agr	490.00
S-3777	John Henry & Vivian Firth	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 08	7.883	A-agr	515.00
S-3778	Melvin Y.S. Chang	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 07	5.686	A-agr	420.00
S-3779	James A. Nakano & Takashi Ishihara	12/05/63-12/04/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 06	6.032	A-agr	435.00
S-3780	Charles R. & Mary E. Salrin	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-26: 19	6.705	A-agr	300.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3782	Peter A. & Gertrude Pak Chong	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-26: 17	7.136	A-agr	550.00
S-3783	Henry, Joseph, Theresa, Johnny & Pauline Castillo	12/05/64-12/04/84	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 30	11.092	A-past	705.00
S-3784	Edward D. & Carroll Sultan, Jr.	12/02/63-12/01/83	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 20	19.481	A-past	730.00
S-3787	William N. K. & Mary Y. Y. Kamai, Jr.	12/02/63-12/01/93	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 38	3.536	A-agr	245.00
S-3789	Shirley May Sumic	12/05/63-12/04/93	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 05	1.146	A-agr	380.00
S-3792	Elizabeth Heavey & Eleanor Kaleimomi McLellan	12/05/63-12/04/93	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 01	1.100	A-agr	380.00
S-3793	Robert L. & Anna K. Ham	12/02/63-12/01/93	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 06	6.490	A-agr	950.00
S-3794	Bar C Ranch	12/02/63-12/01/93	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 05	5.744	A-past	700.00
S-3854	Stewart L. & Arla Wagers Wade	8/10/64-8/09/84	Waimanalo Agr. Subd., Koolaupoko	4-1-26: 18	5.492	A-agr	550.00
S-3856	Fred M. & Toshiko Nakayama	8/10/64-8/09/84	Waimanalo Farm Lots, Koolaupoko	4-1-24: 23	9.474	A-agr	570.00
S-3858	Warren Q. K. Yee & Ellen S. P. Yee	8/10/64-8/09/84	Waimanalo Agr. Subd., Koolaupoko	4-1-10: 39	3.662	A-agr	510.00
S-3859	Harry N. & Irene M. Okabe	8/10/64-8/09/84	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	Waimanalo Farm Lots, Koolaupoko	4-1-24: 62 & 63	9.862	A-agr	640.00
S-3861	Nolan B. George	8/10/64-8/09/84	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	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	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	Waimanalo Farm Lots, Koolaupoko	4-1-24: 54	9.454	A-agr	800.00
S-4010	Arnold & Louise Swartz	9/12/66-9/11/86	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	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	Waimanalo Agr. Subd., Koolaupoko	4-1-27: 02	1.002	A-agr	450.00
S-4095	Olomana Golf Links, Incorporated	5/04/67-5/03/2007	Waimanalo, Koolaupoko	4-1-13: 10	129.859	U-bus	16,500.00
(D) S-4096	University of Hawaii	9/01/67-8/31/77	Waimanalo, Koolaupoko	4-1-26: 02 & 21	127.282	A-agr	Gratis
S-4101	Foremost Dairies-Hawaii, Limited	7/20/67-7/19/97	Waimanalo Agr. Subd., Koolaupoko	4-1-08: 80	195.810	A-agr	8,100.00
S-4133	Henry A. Gomes & Betty Jo Gomes	10/26/67-10/25/87	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	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	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	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	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
S-4399	Waimanalo Residents Housing Development Corporation	3/01/74-2/28/2040	Waimanalo, Koolaupoko	4-1-09 4-1-12	25.000	U-res	1.00 Full term



FOURTH LAND DISTRICT

Island of Kauai

GENERAL LEASES—SUMMARY, FOURTH LAND DISTRICT, JUNE 30, 1974

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	390.932	\$ 11,878.75	45
Business	49.846	59,566.14	26
Cane*	10,202.596	436,745.00	3
County	13.577	—	3
Eleemosynary	42.410	434.85	5
Federal	470.470	601.00	5
Fishpond	—	—	—
Industrial	31.692	18,283.00	4
Pasture	10,774.030	31,126.49	35
Pineapple	—	—	—
Recreational	6.567	305.00	2
Residential	112.596	11,878.00	119
Rights of way	111.969	2,234.46	15
State Agencies	—	—	—
Waste	11,657.361	—	—
Water Licenses, etc.	131.250	98,400.00	3
TOTALS	33,995.296	\$671,452.69	265

Lease No.	Lessee	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	1/01/59-12/31/79	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 Hmstds., 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 Hmstds., 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 Hmstds., Puna	4-2-02: Por. 01	2.960	C-rec	180.00
S-3641	William K. Medeiros	8/08/61-8/07/81	Omao Hmstds., Koloa	2-7-04: 11 & 12	6.075	A-past	180.00
S-3645	Masao Takatsuki	5/11/61-5/10/81	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	Wailua, Puna	4-1-09: Por. 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 Hmstds., Koloa	2-5-05: 04, 05 & 06	7.540	A-past	421.00
S-3650	August Aguiar	7/09/61-7/08/91	Lot 5-B, Kapaa Rice & Kula Lots, Kapaa, Puna	4-5-05: 06	1.871	A-agr	180.00
S-3651	Harrison Kauai Johnson	7/09/61-7/08/81	Kapaa Hmstds., Puna	4-6-04: 13	5.750	A-past	435.00
S-3665	Richard Vidinha	10/16/71-10/15/81	Lots 15 & 16, Lawai Hmstds., 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 Hmstds., Hanalei	5-4-02	13.640	A-agr	175.00
S-3667	Tsutao Okasako	9/01/61-8/31/81	Lot 173, Kapaa Hmstds., Kawaihau, Puna	4-6-08	27.400	A-agr	650.00
S-3671	Kazuo Takanishi 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	Kekaha Sugar Company, Limited	12/18/61-12/17/81	Lot 62, 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 Hmstds., 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: 10	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: 06	7.826	A-agr	190.00
S-3704	James Kazuma Oshita	6/01/62-5/31/82	Lots 11 & 12, Anahola Lots, Kawaihau, Koolau	4-8-11	2.420	A-agr	51.00
S-3705	Manuel S. Andrade	5/02/62-5/01/82	Lot 22, Wailua Rice & Kula Lots, Wailua, Lihue, Puna	3-9-04	8.280	A-past	200.00
S-3706	Waimea Sugar Mill Company, Limited	5/02/62-5/01/82	Ili of Halelopo, Waimea Valley, Kona	1-5-03: 13	7.410	A-cane	45.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3707	Manuel Andrade, Jr.	7/01/62-6/30/83	Tract 1, Hanapepe Valley Pasture land, Waimea, Kona	1-8-05	45.242	A-past	198.00
(D) S-3711	County of Kauai	11/15/62-11/14/2027	Hanapepe, Waimea, Kona	1-9-03: 23 1-9-04 1-9-11 1-9-12	10.426	A-cty	Gratis
(D) S-3713	County of Kauai	11/15/62-11/14/2027	Abandoned WW II Underground Tunnel, Puuopae, Waimea, Kekaha & Hanapepe Valley	1-2-02 & Por. 01 1-8-07 & Por. 03		A-cty	Gratis
S-3733	Konko Kyo Church	2/25/63-2/24/93	Hanapepe Rice & Kula Lots, Hanapepe, Kona	1-9-12: 13	1.840	A-ele	240.00
S-3734	Tokiwa Shimonishi	2/25/63-2/24/83	Hanapepe Town Lots, Waimea, Kona	1-9-10: 37	.097	U-bus	455.00
S-3735	McBryde Sugar Company, Limited	4/26/63-4/25/83	Lot 9-A, Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-12: 28	7.218	A-agr	760.00
S-3736	Susumu Nakamura	4/26/63-4/25/83	Anahola Gov't. Remnant, Parts 1 & 2, Kawaihau, Koolau	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	Wailua, Kawaihau, Puna	4-1-03: 05 & 15 4-1-04: 06	15.689	U-bus	1,500.00
(D) S-3795	Hawaiian Telephone Company	11/26/63-11/25/2013	Hanapepe & Puu Ka Pele, Waimea, Kona	1-9-03: Por. 30 1-4-01: 02	1.042	A-r/w	172.00
S-3797	Richard & Concepcion D. Vidinha	11/25/63-11/24/88	Kalaheo Pasture Reserve B, Kalaheo Hmstds., Koloa	2-3-09: 15 & 16	9.850	A-past	60.00
S-3798	George B. Fernandes	11/26/63-11/25/83	Por. Wailua, Kawaihau, Puna	4-1-09	13.227	A-past	75.00
S-3799	Hitoshi Miyabara	11/26/63-11/25/83	Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-12: 37	2.430	A-agr	97.20
S-3800	Noboru Munechika	1/25/64-1/24/84	Hanapepe Rice & Kula Lots, Waimea	1-9-02: 06 & 07	2.930	A-agr	355.00
S-3801	Clarence K. Nonaka	1/25/64-1/24/84	Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-01: 03	7.660	A-agr	150.00
S-3802	Hanako A. Duarte	1/25/64-1/24/84	Hanapepe Rice & Kula Lots, Waimea, Kona	1-9-01: 14	6.100	A-agr	725.00
S-3803	Yuku Ishida	1/25/64-1/24/75	Lot 83, Anahola Lots, Kawaihau, Koolau	4-8-03: 16	1.330	A-agr	90.00
S-3804	Toraji & Chuichi Oshima	11/26/63-11/25/83	Lot 68, 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	Sections A, B, C, D, Hanapepe, Waimea, Kona	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	Section E, 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	Drainage Basins of N. Wailua, Kapaa, Anahola & Hanalei Rivers, Kapaa, Halelea	4-6-03		C-wtr	90,000.00
S-3828	Lihue Plantation Company, Limited	5/11/64-5/10/94	Por. Moloaa For. Res., Papaa, Moloaa, Kawaihau	4-9-10	125.000	C-wtr	2,400.00
S-3829	Chiyeko K. Yoshii & Robert A. Lemn	5/11/64-5/10/84	Lots 54, 55, 67 & Por. 65, Pors. abandoned Maia Rd. & Lihue Plantation r/r r/w	4-8-07 4-8-08	4.642	A-agr	155.00
S-3830	Robert Y. & Shimayo Y. Hamamura	5/11/64-5/10/84	Lots 8, 9 & 10, Anahola Lots, Kawaihau	4-8-11	2.214	A-agr	70.00
S-3831	Kauai Resort Hotel	5/18/64-5/17/2029	Lot A-2, Parts 1 & 2, Wailua Resort Site, Lihue	3-9-06: 16	2.497	U-bus	10,500.00
S-3832	Ichiji & Masako Matsumura	5/18/64-5/17/2019	Por. Kapaa, Kawaihau	4-5-11 4-5-12	.593	U-bus	1,890.00
S-3840	Kauai Resort Hotel, Incorporated	7/06/64-7/05/2029	Lot A-1, Wailua Resort Site, Wailua	3-9-06: 16	6.093	U-bus	18,000.00
S-3842	Bank of Hawaii	7/06/64-7/05/94	Hanapepe Town Lots, Waimea	1-9-05: 49	.452	U-bus	1,500.00
(D) S-3852	United States of America (Navy)	8/20/64-8/19/2029	Bonham Air Force Base, (Kona)		189.557	U-fed	1.00
(D) S-3863	Kauai County, Y.W.C.A.	4/01/65-3/31/2020	Por. Kokee Camp Sites, Waimea	1-4-04: 33	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	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	Anahola Lots (HHL) Anahola	4-8-11: 45	2.357	A-agr	300.00
(D) 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

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3880	Olaf E. Thronas	1/11/65-1/10/85	Wailua Rice & Kula Lots, Wailua, Kawaihau	3-9-03: 05 & 10	13.830	A-past	120.00
S-3881	Samuel K. Thronas	2/09/65-2/08/85	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	Kapaa Hmstds., Kapaa	4-6-05: 08	.360	U-res	100.00
S-3883	Charles B. Shimomura	1/11/65-1/10/85	Hanapepe Town Lots, Waimea	1-9-10: 33	.181	U-bus	350.00
S-3884	Kauai Kai, Incorporated	1/11/65-1/10/2020	Nawiliwili Harbor Lots, Lihue	3-2-04: 09	.785	U-bus	2,000.00
S-3885	Manuel Andrade, Jr.	3/19/65-3/18/85	Hanapepe Rice & Kula Lots, Hanapepe, Waimea	1-9-12: 05	3.080	A-agr	528.00
S-3889	Edward C. Shota	3/26/65-3/25/85	Wailua Rice & Kula Lots, Wailua, Kawaihau	4-1-01: 01, 03 & 04	12.300	A-agr	501.00
S-3892	Masao Takatsuki	1/25/65-1/24/85	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	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	Hanalei Hmstds., Hanalei	5-4-02: 33, 37, 42 & 46	7.300	A-agr	150.00
S-3910	Betty Wakasa Ushigome	4/14/65-4/13/85	Hanapepe Town Lots, Hanapepe	1-9-10: 38	.095	A-bus	240.00
(D) S-3911	Kauai Electric Company	4/14/65-4/13/2030	Por. Wailua, N. Oloheua, Waipouli, Lihue, Kawaihau, Puna	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	Hanapepe Rice & Kula Lots, Hanapepe	1-8-05: 02	7.930	A-past	45.00
(D) S-3917	United States of America	2/01/65-1/31/2030	Kokee Pacific Missile Range Facility, Waimea		22.900	C-fed	600.00
(D) S-3928	United States of America	9/01/65-8/31/2030	Kokee, Waimea		8.450	C-fed	Gratis
(D) S-3937	County of Kauai	11/01/65-10/31/2030	Hanapepe, Waimea	1-9-04: 02	3.151	U-cty	Gratis
S-3939	Pacific Hawaii Fruit Company, Incorporated	12/16/65-12/15/85	Kapaa Hmstds., Kawaihau	4-6-05: 07	4.750	A-agr	250.00
S-3940	McBryde Sugar Company, Limited	11/16/65-11/15/2030	Por. Hanalei, Wailua & Kalaheo	2-3-01 2-3-02 2-3-12 2-4-01 3-9-01 3-9-02 4-2-01 5-3-01 5-4-01	74.380	A-r/w	925.00
S-3941	Rehabilitation Unlimited, Kauai	11/16/65-11/15/2020	Wailua Coconut Grove, Kawaihau (Puna)	4-1-03: 18 & 20	.813	U-bus	220.00
S-3942	Kauai Kai, Incorporated	11/16/65-11/15/2020	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	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	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	Kapaa Hmstds., Kawaihau (Puna)	4-6-05: 11	4.110	A-agr	600.00
(D) 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	Kapaa Hmstds., Kawaihau (Puna)	4-6-05: 05 & 12	2.600	A-agr	48.00
S-3956	Pacific Hawaii Fruit Company, Incorporated	3/19/66-3/18/2001	Kapaa Hmstds., 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: 51	.025	A-r/w	7.50
S-3958	Edwin Martin	3/19/66-3/19/66	Kapaa Hmstds., Kawaihau (Puna)	4-6-04: 14	9.500	A-past	400.00
S-3959	Frank D. Silva	3/19/66-3/18/86	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	Hanapepe Rice & Kula Lots, Kona (Waimea)	1-9-02: 01 & 20	6.983	A-agr	160.00
S-3969	Shigeo & Eleanor K. Takeuchi	5/26/66-5/25/86	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	Hanapepe Rice & Kula Lots, Waimea (Kona)	1-8-05: 08, 10 & 12	22.650	A-past	90.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
S-3971	McBryde Sugar Company, Limited	5/26/66-5/25/2031	Kalaheo Hmstds., 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	Kapaa Hmstds., 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	Hanalei Hmstds., Hanalei	5-4-02: 26	13.070	A-past	305.00
S-3975	Pacific Hawaii Fruit Company, Incorporated	5/26/66-5/25/86	Kapaa Hmstds., 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	Kapaa Hmstds., 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	Hanapepe Town Lots, Waimea (Kona)	1-9-05: 07	.158	U-bus	248.00
S-3987	Peter H. & Helen H. Souza	8/01/68-7/31/88	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 Hmstds., Kawaihau	4-6-03: Por. 22, 23 & 33	18.110	A-agr	500.00
S-3989	Ronald T. Matsumura & Harry Fukushima	8/13/66-8/12/86	Por. Kapaa Hmstds., Kawaihau	4-6-05: 10	6.240	A-agr	800.00
S-3991	Ernest Palmeira	7/14/66-7/13/86	Por. Kapaa Hmstds., Kawaihau	4-6-03: 01	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 Hmstds., Kawaihau	4-6-05: 09	3.000	A-agr	630.00
S-3994	Joseph Texeira	7/14/66-7/13/86	Por. Kapaa Hmstds., Kawaihau	4-6-03: 04, 10 & 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
(D) 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	Nawiliwili Harbor Lots, Lihue	3-2-04: 11	.618	U-bus	1,200.00
(D) S-4030	Henry I. & Margaret K. Nosaka & Wallace K. & Mikie N. Karimoto	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 30	.730	C-res	89.00
(D) S-4031	William Alexander, Benjamin Alexander & Henry Alexander	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 28	.920	C-res	118.00
(D) S-4033	Lawrence & Daisy Vidinha	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 21	.900	C-res	103.00
(D) S-4034	G.M. Coney, William H. Coney, Harvey A. Hutton, Malcolm G. Hutton & Clarissa G. Gerdes	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 46	.790	C-res	101.00
(D) S-4035	Richmond Garrett & Florence Garrett	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 13	.990	C-res	107.00
(D) S-4036	Bishop Trust Company, Limited, Trustee for Elizabeth Middleton & Barbara H. Davis	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 05	1.070	C-res	144.00
(D) S-4037	George K. Yamamoto & Katherine K.J. Yamamoto	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 22	.910	C-res	104.00
(D) S-4038	Richard Vierra & Kathleen Vierra, Joseph Vierra & Clara Vierra	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 43	1.030	C-res	125.00
(D) S-4039	Bert O. Wade & Marion C. Wade	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 52	1.030	C-res	118.00
(D) S-4040	Beverly P. Brun & Violet V. Prigge	1/01/66-12/31/80	Puu Ka Pele, Waimea	1-4-02: 53	1.030	C-res	111.00
(D) S-4041	Joseph DeCosta, Sr. & Jean E. Nadatani	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 59	1.010	C-res	116.00
(D) S-4042	Manuel B. & Katherine Martin	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 60	1.010	C-res	121.00
(D) S-4043	Hawaiian Association of Seventh-Day Adventists	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 56	1.110	C-res	127.00
(D) S-4044	Anna L. Knapp	1/01/66-12/31/80	Puu Ka Pele, Waimea	1-4-02: 62	1.050	C-res	114.00
(D) S-4045	Tsukasa Miyake & Mitsuyo U. Miyake	1/01/66-12/31/80	Puu Ka Pele, Waimea	1-4-02: 63	.900	C-res	109.00
(D) S-4046	Joaquin S. Arruda & Lucy C. Arruda	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 68	1.120	C-res	129.00
(D) S-4047	Ah Wo Ahana & Hatsue Ahana, Calvin Tokita & Phillis Tokita	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 69	1.080	C-res	124.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) S-4048	Valdemar Knudsen & Helen L. Knudsen	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-03: 01 & 02	3.660	C-res	271.00
(D) S-4049	Charles T. & Alice J. Wallis	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 14	1.050	C-res	86.00
(D) S-4050	William A. & Marjorie I. Thiis	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 16	.980	C-res	81.00
(D) S-4051	John F. & Gay Lee Bylander	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-03: 04	.960	C-res	85.00
(D) S-4052	John S. & Helen E. Sheehan	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-03: 05	.810	C-res	62.00
(D) S-4053	Charles A. & Rebecca R. Harker	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 09	.790	C-res	68.00
(D) S-4054	Hans W. & Anna J. Hansen	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 07	1.470	C-res	109.00
(D) S-4055	Hong Min & Violet C.L. Hee	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 12	2.000	C-res	197.00
(D) S-4056	W. Harwood Danford & Harwood Danford Williamson	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 13	1.820	C-res	140.00
(D) S-4057	Howard D. Briner & Norma Briner	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 38	1.660	C-res	126.00
(D) S-4058	Leonard H. & Alma B. Zalopany	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 21	.710	C-res	53.00
(D) S-4059	John C. & Dorothy Ann F. Hance	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 20	.840	C-res	73.00
(D) S-4060	Patricia Smith Rice	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 19	1.900	C-res	138.00
(D) S-4061	Juliet Rice Wichman	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 18	.680	C-res	51.00
(D) S-4062	John H.R. Plews	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 17	1.010	C-res	78.00
(D) S-4063	Edith Rice Plews	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 16	1.460	C-res	126.00
(D) S-4064	Satoru Kudaishi & Jean M. Kudaishi	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 06	.770	C-res	54.00
(D) S-4065	George R. Ewart, III	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 04	1.440	C-res	143.00
(D) S-4066	Kenneth Roberts & Catherine Kerr Harding	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 10	1.110	C-res	77.00
(D) S-4067	Sterline E. & Bonnie C. Dunford & William S. Dunford	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 03	1.210	C-res	84.00
(D) S-4068	Lindsay A. & Roberta I. Faye	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 11	.800	C-res	69.00
(D) S-4069	Alfred J. & Elizabeth K. Toulon & Wilfred J. & Anne K. Baldwin	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-03: 03	.960	C-res	83.00
(D) S-4070	Ritchie A. & Mary M. Gentry	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 44	1.440	C-res	108.00
(D) S-4071	Kathryn T. Dinham	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 40	1.070	C-res	85.00
(D) S-4072	John Rapozo, Jr. & Norman Rapozo	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 45	.290	C-res	25.00
(D) S-4073	George G. & Mary D. Silva	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 62	.530	C-res	39.00
(D) S-4074	Edwin T. & Hong Lin W. Petteys & Edwin O.P. Petteys & Lottie K.L.P. Wolff & Charles Q.S. Petteys	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 68	.560	C-res	40.00
(D) S-4075	Richard & Concepcion Vidinha	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 60	.550	C-res	43.00
(D) S-4076	Frank & Mariam G. Rita	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 55	.670	C-res	53.00
(D) S-4077	Wallace H. & Sandra L. Ferreira	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 58	.790	C-res	56.00
(D) S-4078	Martin & Janine F. Reis	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 47	.440	C-res	33.00
(D) S-4079	Donald L. & Sue R. Plucknett	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 48	.580	C-res	47.00
(D) S-4080	Ichiro Okada & Elsie H. Okada	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 49	.530	C-res	43.00
(D) S-4081	William R. Warren	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 14	1.200	C-res	83.00
(D) S-4082	Nelson K. Hardenbergh	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-03: 09	1.420	C-res	105.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) S-4083	Kenji Ego & Winifred S.L. Ego	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 35	.930	C-res	72.00
(D) S-4084	Kathryn Hulme & Marie L. Habetts	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 13	.510	C-res	35.00
(D) S-4085	Melvin P. Christian & Annie K. Christian	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 30	.650	C-res	55.00
(D) S-4086	Wilson M. Pang & Alice A. Pang	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 43	.900	C-res	69.00
(D) S-4087	Estate of Mina M. Marcellino	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 07	.620	C-res	46.00
(D) S-4088	John R. Laidlaw & Marguerite G. Laidlaw	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 08	.690	C-res	48.00
(D) S-4089	David Cornwell	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 09	1.320	C-res	86.00
(D) S-4090	Arthur R. & Lois L. Glaisyer	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 12	.400	C-res	35.00
(D) S-4091	Joe T. Orrick & Betty W.S. Orrick	1/01/66-12/31/85	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
(D) S-4128	Boy Scouts of America, Aloha Council	12/01/67-11/30/2022	Waimea Canyon Park, Waimea (Kona)	1-4-01	29.000	C-ele	120.00
(D) S-4132	F.W. Broadbent, Dora B. Pratt & Alice B. Crabbe	1/01/66-12/31/75	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: 02, 03 & 04	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
(D) S-4142	Hawaii Conference, United Church of Christ	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 27	.500	C-res	35.00
(D) S-4143	J. Albert & Ruth W. Roesch	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 24	1.030	C-res	89.00
(D) S-4144	Donn A. Carswell & Gala F. Carswell	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 28	1.000	C-res	69.00
(D) S-4145	Kenneth T. & Claire T. Perreira	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 36	.830	C-res	64.00
(D) S-4146	Manuel S. Andrade, Jr. & Mae Andrade	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 42	.700	C-res	49.00
(D) S-4147	Ginevra C. Waterhouse	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 41	.500	C-res	35.00
(D) S-4148	August & Elizabeth H. Camara, Manuel & Pearl L. Camara, Ernest & Katherine P. Camara	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 46	.500	C-res	41.00
(D) S-4149	Manuel G. Silva & Placida Y. Silva	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 69	.560	C-res	40.00
(D) S-4150	Lillian M. Uchiyama	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 59	.580	C-res	43.00
(D) S-4151	Sam H. Tao & Dorothy M. Tao	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 52	.590	C-res	46.00
(D) S-4152	Joseph A. Soares & Margaret Soares	1/01/66-12/31/85	Kokee Camp Site, Waimea	1-4-04: 53	.540	C-res	40.00
(D) S-4153	Conrado & Eufemia C. Edayan	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 54	.470	C-res	34.00
(D) S-4154	Koichi Ikeda & Asayo I. Ikeda	1/01/66-12/31/80	Kokee Camp Site, Waimea	1-4-04: 50	.420	C-res	36.00
(D) S-4155	William M. Moragne, Jr. & Jean B. Moragne	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 31	.970	C-res	112.00
(D) S-4156	Hajime Takanishi & Kimiyo O. Takanishi	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 18	.970	C-res	112.00
(D) S-4157	Carlo Panfiglio & Arthur E. Smith	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 32	1.130	C-res	122.00
(D) S-4158	Virginia C. Rapozo & Emily C. Souza	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 16	1.060	C-res	145.00
(D) S-4159	Hong Shin Hee & Lin Kiu Hee	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 41	.990	C-res	107.00
(D) S-4160	Maria K. Cox	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 47	.950	C-res	112.00
(D) S-4161	David T. Silver & Adele L. Silver	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 20	1.000	C-res	122.00
(D) S-4162	National Division of the Board of Missions of the Methodist Church	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 24 & 87	3.050	C-res	371.00

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
(D) S-4163	Hideo L. Nakamura & Shigeyo O. Nakamura	1/01/66-12/31/80	Puu Ka Pele, Waimea	1-4-02: 23	1.060	C-res	131.00
(D) S-4164	Masako Y. Kitamura & Hisao Munechika	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 25	1.050	C-res	121.00
(D) S-4165	Daniel Manus, Sr., & C. Manus	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 26	1.030	C-res	120.00
(D) S-4166	Manuel Perreira & Alga H. Perriera	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 27	.820	C-res	94.00
(D) S-4167	Wayne M. Sakai & Dennis M. Sakai	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 14	.890	C-res	96.00
(D) S-4168	Marvin A. Brennecke	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 04	1.040	C-res	140.00
(D) S-4169	Arthur G. Kruse & Mary T. Kruse	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 10	1.000	C-res	121.00
(D) S-4170	Shigeo Nitta & Hasako U. Nitta	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 08	.850	C-res	103.00
(D) S-4171	Franklin & Patricia Ventura	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 39	1.000	C-res	128.00
(D) S-4172	Max F. Yamasaki & Lillian H. Yamasaki	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 40	1.000	C-res	121.00
(D) S-4173	William E. Fernandes & Evelyn P. O. Fernandes	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 37	1.130	C-res	122.00
(D) S-4174	William Vierra & Helen S. Vierra	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 36	1.120	C-res	129.00
(D) S-4175	James K. & Shizue Okada, Yoshimasa & Edith Fujimura	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 34	1.150	C-res	140.00
(D) S-4176	George A. Kruse & Martha S. Kruse	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 42	1.000	C-res	128.00
(D) S-4177	Emily K. Zuttermeister	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 35	1.010	C-res	116.00
(D) S-4178	Choshi Nakaya & Mitsuyo Y. Nakaya	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 51	1.050	C-res	128.00
(D) S-4179	Seichi Yokoyama & Vera Yokoyama	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 61	.950	C-res	115.00
(D) S-4180	Richard H. Nagoshi, Wallace K. Tasaka & Yuriko N. Tasaka	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 66	.870	C-res	106.00
(D) S-4181	Sutezo Mukai & Hatsue I. Mukai	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 67	.790	C-res	96.00
(D) S-4182	Mervin K. Kaohi, Sr. & Aletha Goodwin Kaohi	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 71	.900	C-res	103.00
(D) S-4183	Henry T. Tanaka & Michie S. Tanaka	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 73	.960	C-res	104.00
(D) S-4184	Isaac W. Kaiu & Gladys Y. Kaiu	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 75	.980	C-res	106.00
(D) S-4185	Alec Blackstad & Agnes L. Blackstad	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 79	1.110	C-res	127.00
(D) S-4186	Ichiro Inouye & Akiyo M. Inouye	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 81	1.000	C-res	128.00
(D) S-4187	Harry I. Hamada & Agnes K. Hamada	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 86	.820	C-res	89.00
(D) S-4188	Lawrence E. Jordan & Cheryl M. Jordan	1/01/66-12/31/75	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	8/01/68-7/31/2023	Kawaihau (Puna)	4-5-15: 40	2.035	U-ind	825.00
(D) S-4208	Richard O'Neal & Helen Olga Hansen O'Neal	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-03: 17	.580	C-res	50.00
(D) S-4213	George R. & Leoncia M. Susterich	1/01/66-12/31/75	Kokee Camp Site, Waimea	1-4-04: 63	.540	C-res	41.00
(D) S-4214	Ruth K. Hanner	1/01/66-12/31/85	Puu Ka Pele, Waimea	1-4-02: 45	.720	C-res	89.00
(D) S-4215	Lawrence Goodwin & Annie Goodwin	1/01/66-12/31/75	Puu Ka Pele, Waimea	1-4-02: 15	1.030	C-res	117.00
(D) S-4221	William M. & Ann P. Downs	10/01/68-12/31/80	Puu Ka Pele, Waimea	1-4-02: 54	1.050	C-res	120.00
S-4222	Kekaha Sugar Company, Limited	1/01/69-12/31/93	Waimea (including Hawaiian Home Land) (Kona)	1-2-02	7,380.657 927.130 7,759.423 <u>11,657.361</u>	A-cane con past ws	354,300.00 44,500.00 15,000.00 <u>413,800.00</u>
(D) S-4240	University of Hawaii	4/25/69-4/24/84	Wailua, Kawaihau (Puna)	4-1-01 4-1-02	27,724.571 9.830	A-agr	Gratis

Lease No.	Lessee	Term of Lease	Location	Tax Map Key	Area (Acres)	Classification & Use	Annual Rental
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
(D) S-4245	Hawaiian Trust Company (Will of Jean Faye)	1/01/66–12/31/75	Kokee Camp Site, Waimea	1-4-04: 05	1.110	C-res	76.00
(D) S-4250	Honolulu Gas Company, Limited	9/09/69–9/08/2023	Nawiliwili	3-2-03: 30	1.614	U-ind	3,770.00
S-4254	T.T. Kuramoto & Company, Limited	8/12/69–8/11/2024	Kekeha 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: 19	6.250	C-wtr	6,000.00
S-4257	Hiroshi Azeka	8/12/69–8/11/2019	Kapaa Town Lots, Kawaihau (Puna)	4-5-09: 08	.351	U-bus	733.00
(D) S-4259	United States of America (Army)	6/17/69–5/15/84	Parcels 1 & 2, Kokee State Park	1-4-01: 03	1.343	C-fed	Gratis
(D) 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	Hanapepe Town Lots, Waimea (Kona)	1-9-05: 09	.322	U-bus	632.00
S-4276	Iolani Sportswear, Limited	1/27/70–1/26/2035	Lot 22, Hanapepe Business Lots, Waimea (Kona)	1-8-08	1.256	U-bus	1,970.00
S-4277	Jerry Louis Ornellas	1/27/70–1/26/95	Kapaa Hmstds., Kawaihau (Puna)	4-4-04: 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
(D) S-4338	Waialeale Boat Tours, Incorporated	5/15/72–5/14/82	Waialua River State Park, Kapaa		.008	C-bus	500.00
(D) S-4339	Smith Boat Tours	5/15/72–5/14/82	Waialua River State Park, Kapaa		.008	C-bus	500.00
(D) S-4353	University of Hawaii, College of Tropical Agriculture	6/26/71–4/24/84	Wailua Rice & Kula Lots, Kawaihau (Puna)	4-1-02: 12 & 18	8.430	A-ele	1.00
S-4389	Manuel Perez (Perry) & Elsie F. Perez (Perry)	5/02/74–5/01/2039	Easement B, Lawai Hmstds., Lawai (Kona)	2-5-02	.024	A-r/w	Full term .46
S-4392	Toshio Hashimoto & Lois N. Hashimoto	12/20/73–5/25/2031	Hanapepe Rice & Kula Lots, Hanapepe, Waimea (Kona)	1-9-01: 11	4.080	A-agr res	134.55
S-4393	Christopher Barry Singleton	1/18/74–1/17/2029	Kainahola Pasture Land, Waipouli, Kawaihau (Puna)	4-4-04: 44	40.260	A-agr res	220.00
S-4394	Pride Company, Incorporated	12/20/73–12/19/93	Waiahole, Waimea Valley, Waimea (Kona)	1-5-03: 01	11.660	A-agr	65.00
S-4395	Donald Lynn Van Valkenberg	12/20/73–12/19/93	Kapaa Hmstds., 1st Series, Kapaa, Kawaihau (Puna)	4-6-06: 28 & 29	9.170	A-agr	90.00
S-4396	James George Jung, Jr., Ralph E. Daehler, Jean Gregg, Chester Holtwick & Derwyn Lackey	1/18/74–1/17/94	Kapaa Hmstds., 2nd Series, Kapaa, Kawaihau (Puna)	4-4-02: 31	19.150	A-past	1,305.00
S-4397	Manji Ouye & Emma C. Ouye	12/20/73–12/19/2038	Nawiliwili, Lihue (Puna)	3-2-04: Por. 03	.808	U-bus	420.00
S-4398	Kapaa Poi Factory	12/20/73–12/19/2008	Kainahola Pasture Land, Waipouli, Kawaihau (Puna)	4-4-04: 43	3.000	A-bus	137.14
S-4401	Kauai Soto Zen Temple, Zenshuji	4/01/74–3/31/2039	Hanapepe, Waimea (Kona)	1-8-08: Por. 77	3.126	U-ele	73.85
(D) S-5007	University of Hawaii	6/01/67–5/31/87	Lihue-Koloa Forest Res., Koloa	2-4-09: 06	.014	U-ele	Gratis

DIVISION OF STATE PARKS

**Table 1. STATE PARK AREAS, ACREAGE, AND USAGE, BY PPBS PROGRAM, ISLAND AND AREA:
ENDING JUNE 30, 1974**

PPBS Program, Island and State Park Area	Year Estab.	Total Acreage	Developed Acreage	FY 1973-74 Recreation Visits (1,000) ¹
All State Park Areas	—	16,629.4	533.9	12,907
LNR-801 HISTORICAL & ARCHAEOLOGICAL PLACES:	—	328.9	30.4	233
HAWAII				
F-13 Lapakahi State Park, North Kohala	1973	265.0	—	—
F-14 Kealahou Bay State Park	1967	2.0 ⁴	2.0	—
Hikiau Heiau State Monument	(1967)	(2.0 ⁴)	(2.0)	(—)
F-10 Hawaii Island Historic Sites (See Statewide Historic Preservation Program)	—	—	—	—
MAUI				
F-21 Halekii-Pihana State Monument	1962	10.2	1.0	11
MOLOKAI				
F-22 Halawa Valley State Park (Possible Park)	—	—	—	—
F-16 Iliiliopae Heiau (Possible Park)	—	—	—	—
F-17 Smith-Bronte Landing (Possible St. Monument)	—	—	—	—
OAHU				
F-20 Hawaii Heritage Center (Possible)	—	—	—	—
F-27 Heeia Fish Pond-Matson Point (Planned Park)	—	—	—	—
F-11 Iolani Palace State Monument	1967	10.6	6.5	193 ⁸
F-26 Kuilioloa Heiau Historic Site (Possible Restoration)	—	—	—	—
F-23 Puu O Mahuka State Monument	1962	4.0	3.5	—
F-15 Royal Mausoleum State Monument	1968	5.3	3.0	29
F-18 State Capitol	1969	10.0 ⁶	5.0	—
F-24 Ulu Po Heiau State Monument	1954	1.4	1.2	—
F-25 Washington Place State Monument	1966	3.1	3.0	—
KAUAI				
F-12 Russian Fort State Monument	1972	17.3	5.2	—
STATEWIDE				
F-10 Statewide Historic Preservation Program (Inventory/Survey Plan)	1970	—	—	—
LNR-803 NATURAL FEATURES:	—	2,617.2	60.5	5,475
HAWAII				
F-35 Akaka Falls State Park	1952	65.4	6.0	210
F-36 Kealahou Bay—Underwater Park	1971	315.0	—	—
F-34 Lava Tree State Monument	1956	17.1	10.0	42
F-33 Wailuku River State Recreation Area	1967	81.0 ⁴	15.0	1,178
MAUI				
F-32 Iao Valley State Park	1961	3.7	3.0	600
MOLOKAI				
—	—	—	—	—
OAHU				
F-37 Diamond Head State Monument ²	1962	148.0 ⁵	—	—
F-38 Hanauma Bay—Underwater Park	1969	101.0	—	—
F-30 Nuuanu Pali State Wayside	1964	5.0 ⁴	1.9	2,000 ⁷
KAUAI				
F-31 Wailua River State Park (Fern Grotto)	1954	14.6	14.6	696
F-39 Waimea Canyon State Park	1952	1,866.4	10.0	749
STATEWIDE				
—	—	—	—	—

PPBS Program, Island and State Park Area	Year Estab.	Total Acreage	Developed Acreage	FY 1973-74 Recreation Visits (1,000) ¹
LNR-804 INLAND-BASED PARKS:	—	12,834.1	301.2	4,966
HAWAII				
F-63 Honomolino State Park (Planned Park)	—	—	—	—
F-65 Kalapana-Queens Bath (Planned Park)	1974	.6	—	—
F-53 Kalopa State Recreation Area	1967	100.0 ⁴	15.0	9
F-66 Kilauea State Recreation Area	1966	7.0 ⁴	1.0	—
F-69 Manuka State Wayside	1952	13.2	8.0	79
F-64 Mauna Kea State Park	1962	700.0 ⁴	17.0	58
F-58 Wailoa River State Recreation Area	1954	148.8 ⁵	115.0	1,104
F-68 Waipio Valley (Possible Park)	—	—	—	—
MAUI				
F-59 Hana Road Waysides	—	14.3	4.0	332
(Kaumahina State Wayside)	(1952)	(7.8)	(2.0)	(102)
(Keanae Valley State Wayside)	(1952)	(1.5)	(.5)	(96)
(Puua Kaa State Wayside)	(1954)	(5.0 ⁴)	(1.5)	(134)
F-67 Polipoli Springs State Recreation Area	1957	2.0 ⁴	1.0	6
F-90 Twin Falls Wayside Park (Possible Park)	—	—	—	—
F-99 Ukumehame—upland (Possible State Park)	—	—	—	—
F-55 Waianapanapa State Park	1966	120.0 ⁴	18.0	137
F-49 Wailua Cove (Possible State Park)	—	—	—	—
MOLOKAI				
F-60 Palaau State Park	1955	233.7	10.0	67
OAHU				
F-97 Honolulu Stadium (Possible State Park)	—	—	—	—
F-57 Kahana Valley State Park	1970	5,260.0 ⁶	10.0	—
F-48 Keaiwa Heiau State Recreation Area	1955	384.5	13.0	273
F-51 Makiki-Tantalus State Park	1957	50.0 ⁴	10.0	184
(Puu Ualakaa State Wayside)	(1957)	(50.0 ⁴)	(10.0)	(184)
F-56 Makua-Kaena Point State Park—Upland (Planned)	—	—	—	—
F-91 Open Space Leeward District (Possible)	—	—	—	—
— Sans Souci State Recreation Area	1969	1.0	1.0	—
F-93 Streamside Park-Manoa Stream (By others)	—	—	—	—
F-61 Waahila Ridge State Recreation Area	1967	45.0 ⁴	7.0	70
F-50 Wahiawa Fresh Water (Planned State Park)	—	—	—	—
F-62 Waimanalo Foothills State Recreation Area (Possible)	—	—	—	—
KAUAI				
F-95 Hanalei River Clearing Project	NA	NA	NA	NA
F-94 Kilauea Beach Access (County)	—	—	—	—
F-46 Kokee State Park	1952	4,640.0	55.0	652
F-52 Wahiawa Mauka State Recreation Area	1968	52.3	—	—
F-54 Wailua River State Park ³ (excluding Fern Grotto & Lydgate)	1954	1,061.7	16.2	1,995
STATEWIDE				
F-96 Urban Strip Parks (Possible)	—	—	—	—
F-98 Statewide Trail and Access (Planned)	—	—	—	—
LNR-805 BEACH PARKS:	—	849.2	141.8	2,233
HAWAII				
F-75 Hapuna Beach State Park	1967	300.0 ⁴	24.8	269
F-79 Kiholo Bay State Park (Possible)	—	—	—	—
F-77 MacKenzie State Park	1955	13.1	6.0	36
MAUI				
F-86 Kahului Beach Park (County)	—	—	—	—
F-81 Maalaea-Kaanapali State Wayside	—	10.0 ⁴	10.0 ⁴	784
(Launiupoko State Wayside)	(1965)	(4.0 ⁴)	(4.0)	(318)
(Wahikuli State Wayside)	(1969)	(6.0 ⁴)	(6.0)	(466)
F-73 Makena-La Perouse	1971	26.9	—	—
(Puu Olai State Park)	(1971)	(26.9)	(—)	(—)
F-87 Ukumehame—beach (Possible Park)	—	—	—	—
F-84 West Maui Complex (Possible Park)	—	—	—	—

PPBS Program, Island and State Park Area	Year Estab.	Total Acreage	Developed Acreage	FY 1973-74 Recreation Visits (1,000) ¹
MOLOKAI				
—	—	—	—	—
OAHU				
F-85 Aina Moana State Recreation Area (Magic Island)	1970	33.6	33.6	492
F-88 Kaiaka Point (Possible Park)	—	—	—	—
F-72 Makua-Kaena Point State Park (Planned)	—	—	—	—
F-83 Rainbow Bay (Planned Park)	—	—	—	—
F-70 Sand Island State Recreation Area	1970	140.0	—	—
F-71 Waimanalo Bay State Recreation Area	1970	74.8 ⁶	6.0	—
KAUAI				
F-09 Ahukini Pier (Planned Recreation Pier)	—	—	—	—
F-74 Haena State Park	1973	6.0	—	—
F-89 Hanamaulu Beach (County Park)	—	—	—	—
F-76 Wailua River State Park (Lydgate)	1954	48.8	37.2	403
F-80 Na Pali Coast State Park	1962	55.8 ⁴	4.0	3
F-78 Polihale State Park	1967	140.0 ⁴	20.0	246
F-82 Waimea Pier	1974	.2 ⁶	.2	—
STATEWIDE				
—	—	—	—	—
LNR-809 GENERAL ADMINISTRATION FOR CULTURE AND RECREATION:	—	NA	NA	NA
STATEWIDE				
F-02 Statewide Interpretive Planning (Possible)	—	NA	NA	NA
F-01 Statewide Resource Inventory	1973	NA	NA	NA
SUMMARY BY ISLANDS:				
HAWAII	—	2,028.2	219.8	2,985
MAUI	—	187.1	37.0	1,870
MOLOKAI	—	233.7	10.0	67
OAHU	—	6,277.3	104.7	3,241
KAUAI	—	7,903.1	162.4	4,744
STATEWIDE	—	—	—	—
GRAND TOTAL	—	16,629.4	533.9	12,907

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

² Includes Na Laau Arboretum (9.5 acres).

³ Includes Wailua River Reserve (884.2 acres); Kaumualii (3.9 acres); Boat Basin (11.4 acres); Poliahu (162.2 acres).

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

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

⁶ Acquired responsibility; acreage is estimated.

⁷ No current data available—rough estimate only.

NA = Not Applicable.

⁸ FY 73-74 Iolani Palace visits decreased by 552,000 from previous year generally due to restoration of Throne Room.

Table 2. STATE PARK REVENUES, BY SOURCE, 1974

Income Source	Amount
Total	\$243,039
Rentals, recreation residence lots, Kokee and Waimea Canyon State Parks, Kauai	12,907
Rentals, vacation cabins and lodgings, State operated, all parks	81,756
Lease of concessions, Kokee and Wailua River State Parks, Kauai	69,207
Mooring fees, Wailua River State Park Marina, Kauai	3,411
Sale of water, all parks	5,269
Sale of electricity, Wailua River Recreation Area Pavilion	1,448
Commissions and sales, miscellaneous, all islands	997
Sale of Publications	161
Transportation Services, Wailua River State Park Marina, Kauai	67,883

Table 3. STATE PARK AREAS, TOTAL ACREAGE, RECREATION VISITS, EXPENDITURE AND REVENUE BY YEARS—1952-1974

Year ¹	No. of Areas (Estab.)	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
1974	53	16,629	12,907,000	6.4¢	2,294,804	820,168	1,474,636	243,039

NA—Not Available.

¹ Year ended June 30.

² Parks for which boundaries are not yet established are not included prior to June 30, 1970.

³ Capital improvement program including land acquisition.

Table 4. STATE PARK EXPENDITURE AND REVENUES BY ISLANDS AND PPBS PROGRAM: YEAR ENDING JUNE 30, 1974

Island, PPBS Program	Operating Cost Per Visit	Total	Expenditures in Dollars			Program Revenues ¹
			Operating	C.I.P.		
By Island:						
Hawaii	6.1¢	524,390	181,954	342,436		36,469
Maui	5.4¢	143,062	101,590	41,472		46,735
Molokai	9.8¢	20,063	6,593	13,470		—
Oahu ²	11.1¢	863,674	361,162	502,512		161
Kauai	3.6¢	640,715	168,869	471,846		158,677
Statewide ³	—	102,900	—	102,900		997
By PPBS Program:						
LNR—801 Historical & Archaeological Places	43.0¢	731,240	100,270	630,970		—
LNR—803 Natural Features	1.0¢	201,352	53,959	147,393		—
LNR—804 Inland-Based Parks	8.1¢	682,454	403,493	278,961		235,860
LNR—805 Beach Parks	10.6¢	642,739	237,259	405,480		7,018
LNR—809 General Administration for Culture & Education	—	37,019	25,187	11,832		161

¹ Not included: Commissions and Sales, Miscellaneous, all islands.

² Includes Honolulu administration office.

³ Projects of general statewide significance.

Table 5. FY 1973-74 CAPITAL IMPROVEMENT EXPENDITURES

PPBS Program, Island and State Park Area	Acquisition	Research/ Planning	Construction Design	Construction	Total
(In thousands of dollars)					
All State Park Areas	317.7	167.0	110.0	879.9	1,474.6
LNR-801 HISTORICAL & ARCHAEOLOGICAL PLACES ...	.1	134.8	—	496.1	631.0
HAWAII					
F-13 Lapakahi State Park, North Kohala	—	39.7	—	131.7	171.4
F-14 Kealahakua Bay State Park .....	.1	—	—	—	.1
Hikiau Heiau State Monument	—	—	—	—	—
F-10 Hawaii Historic Sites (Statewide Historic Preservation Program)	—	—	—	—	—
MAUI					
F-21 Halekii-Pihana State Monument	—	—	—	—	—
MOLOKAI					
F-22 Halawa Valley	—	—	—	—	—
F-16 Iliiliopae Heiau	—	—	—	—	—
F-17 Smith-Bronte Landing	—	—	—	—	—
OAHU					
F-20 Hawaii Heritage Center	—	—	—	—	—
F-27 Heeia Fish Pond-Matson Point	—	—	—	—	—
F-11 Iolani Palace State Monument	—	—	—	355.0	355.0
F-26 Kuilioloa Heiau	—	—	—	—	—
F-23 Puu O Mahuka State Monument	—	—	—	—	—
F-15 Royal Mausoleum State Monument	—	2.9	—	—	2.9
F-18 State Capitol	—	—	—	—	—
F-24 Ulu Po Heiau State Monument	—	—	—	—	—
F-25 Washington Place State Monument	—	—	—	—	—
KAUAI					
F-12 Russian Fort State Monument	—	1.1	—	9.4	10.5
STATEWIDE					
F-10 Statewide Historic Preservation Program	—	91.1	—	—	91.1
LNR-803 NATURAL FEATURES	—	—	27.0	120.4	147.4
HAWAII					
F-35 Akaka Falls State Park	—	—	—	4.3	4.3
F-36 Kealahakua Bay—Underwater Park	—	—	—	—	—
F-34 Lava Tree State Monument	—	—	—	—	—
F-33 Wailuku River State Recreation Area	—	—	—	14.9	14.9
MAUI					
F-32 Iao Valley State Park	—	—	1.4	—	1.4
MOLOKAI					
—	—	—	—	—	—
OAHU					
F-37 Diamond Head State Monument	—	—	—	—	—
F-38 Hanauma Bay—Underwater Park	—	—	2.5	8.3	10.8
F-30 Nuuanu Pali State Wayside	—	—	18.6	7.3	25.9
KAUAI					
F-31 Wailua River State Park (Fern Grotto)	—	—	4.5	85.6	90.1
F-39 Waimea Canyon State Park	—	—	—	—	—
STATEWIDE					
—	—	—	—	—	—
LNR-804 INLAND-BASED PARKS	165.9	17.7	13.3	82.0	278.9
HAWAII					
F-63 Honomolino State Park	—	—	—	—	—
F-65 Kalapana-Queens Bath	143.2	.7	—	—	143.9
F-53 Kalopa State Recreation Area	—	—	1.1	—	1.1
F-66 Kilauea State Recreation Area	—	—	—	—	—
F-69 Manuka State Wayside	—	—	—	—	—
F-64 Mauna Kea State Park	—	—	—	—	—
F-58 Wailoa River State Recreation Area	—	.3	.4	4.7	5.4
F-68 Waipio Valley	—	—	—	—	—
MAUI					
F-59 Hana Road Waysides	—	—	2.7	24.0	26.7
(Kaumahina State Wayside)	(—)	(—)	(2.7)	(24.0)	(26.7)
(Keanae Valley State Wayside)	(—)	(—)	(—)	(—)	(—)
(Puua Kaa State Wayside)	(—)	(—)	(—)	(—)	(—)
F-67 Polipoli Springs State Recreation Area	—	—	—	—	—
F-90 Twin Falls Wayside	—	—	—	—	—
F-99 Ukumehame (upland)	—	—	—	—	—
F-55 Waianapanapa State Park	—	—	5.3	5.4	10.7
F-49 Wailua Cove	—	—	—	—	—

PPBS Program, Island and State Park Area	Acquisition	Research/ Planning	Construction Design	Construction	Total
MOLOKAI					
F-60 Palaau State Park	—	—	.1	13.4	13.5
OAHU					
F-97 Honolulu Stadium	—	—	—	—	—
F-57 Kahana Valley State Park	22.2	15.3	—	9.4	46.9
F-48 Keaiwa Heiau State Recreation Area	—	—	—	—	—
F-51 Makiki-Tantalus State Park	—	—	—	—	—
(Puu Ualakaa State Wayside)	(—)	(—)	(—)	(—)	(—)
F-56 Makua-Kaena Point State Park (upland)	—	—	—	—	—
F-91 Open Space Leeward District	—	—	—	—	—
— Sans Souci State Recreation Area	—	—	—	—	—
F-93 Streamside Park-Manoa Stream	—	—	—	—	—
F-61 Waahila Ridge State Recreation Area	—	—	—	—	—
F-50 Wahiawa Fresh Water	—	—	—	—	—
F-62 Waimanalo Foothills State Recreation Area	—	—	—	—	—
KAUAI					
F-95 Hanalei River Clearing	—	—	—	—	—
F-94 Kilauea Beach Access	—	—	—	—	—
F-46 Kokee State Park	—	—	—	15.1	15.1
F-52 Wahiawa Mauka State Recreation Area	—	1.4	—	9.6	11.0
F-54 Wailua River State Park (excluding Fern Grotto & Lydgate) .....	.5	—	3.7	.4	4.6
STATEWIDE					
F-96 Urban Strip Parks	—	—	—	—	—
F-98 Statewide Trail and Access	—	—	—	—	—
LNR-805 BEACH PARKS	151.7	2.7	69.7	181.4	405.5
HAWAII					
F-75 Hapuna Beach State Park	—	—	1.0	—	1.0
F-79 Kiholo Bay State Park	—	.3	—	—	.3
F-77 MacKenzie State Park	—	—	—	—	—
MAUI					
F-86 Kahului Beach Park	—	—	—	—	—
F-81 Maalaea-Kaanapali State Wayside	—	.9	—	1.8	2.7
(Launiupoko State Wayside)	—	—	—	—	—
(Wahikuli State Wayside)	—	—	—	—	—
F-73 Makena-La Perouse	—	—	—	—	—
F-87 Ukumehame (beach)	—	—	—	—	—
F-84 West Maui Complex	—	—	—	—	—
MOLOKAI					
—	—	—	—	—	—
OAHU					
F-85 Aina Moana State Recreation Area (Magic Island)	—	—	—	—	—
F-88 Kaiaka Point	—	—	—	—	—
F-72 Makua-Kaena Point State Park	—	1.5	—	—	1.5
F-83 Rainbow Bay	—	—	—	—	—
F-70 Sand Island State Recreation Area	—	—	40.8	—	40.8
F-71 Waimanalo Bay State Recreation Area	—	—	8.4	10.4	18.8
KAUAI					
F-09 Ahukini Pier	—	—	—	—	—
F-74 Haena State Park	93.1	—	—	.8	93.9
F-89 Hanamaulu Beach	—	—	—	—	—
F-76 Wailua River State Park (Lydgate)	—	—	17.7	—	17.7
F-80 Na Pali Coast State Park	58.6	—	—	—	58.6
F-78 Polihale State Park	—	—	1.8	162.4	164.2
F-82 Waimea Pier	—	—	—	6.0	6.0
STATEWIDE					
—	—	—	—	—	—
LNR-809 GENERAL ADMINISTRATION FOR CULTURE AND RECREATION	—	11.8	—	—	11.8
STATEWIDE					
F-02 Statewide Interpretive Planning	—	—	—	—	—
F-01 Statewide Resource Inventory	—	11.8	—	—	11.8
SUMMARY BY ISLANDS:					
HAWAII	143.3	41.0	2.5	155.6	342.4
MAUI	—	.9	9.4	31.2	41.5
MOLOKAI	—	—	.1	13.4	13.5
OAHU	22.2	19.7	70.3	390.4	502.6
KAUAI	152.2	2.5	27.7	289.3	471.7
STATEWIDE	—	102.9	—	—	102.9
GRAND TOTAL	317.7	167.0	110.0	879.9	1,474.6

WAIMANALO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1973					
July	13,122,597	921.208	2,303.15	1,049.79	3,352.94
August	21,056,528	921.208	2,303.15	1,684.51	3,987.66
September	16,254,960	921.208	2,303.15	1,300.39	3,603.54
October	12,214,411	921.208	2,303.15	977.13	3,280.28
November	6,428,720	921.208	2,303.15	514.32	2,817.47
December	1,231,148	921.208	2,303.15	98.49	2,401.64
1974					
January	—	921.208	2,303.15	—	2,303.15
February	2,253,207	921.208	2,303.15	180.23	2,483.38
March	1,549,898	921.208	2,303.15	123.98	2,427.13
April	5,068,375	921.208	2,303.15	405.48	2,708.63
May	11,242,459	921.208	2,303.15	899.39	3,202.54
June	10,551,933	921.208	2,303.15	844.17	3,147.32
TOTALS	100,974,236	—	\$27,637.80	\$8,077.88	\$35,715.68

WAIMEA-LALAMILO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1973					
July	24,503,980	207	465.75	1,545.48	2,011.23
August	23,724,380	207	465.75	1,498.00	1,963.75
September	20,141,090	207	465.75	1,331.18	1,796.93
October	19,240,450	207	465.75	1,264.32	1,730.07
November	9,051,850	207	465.75	671.10	1,136.85
December	6,555,780	207	465.75	469.16	934.91
1974					
January	1,587,830	232	522.00	119.22	641.22
February	6,958,410	232	522.00	493.96	1,015.96
March	8,000,780	232	522.00	567.59	1,089.59
April	11,299,250	232	522.00	832.34	1,354.34
May	13,012,490	232	522.00	889.28	1,411.28
June	11,720,250	232	522.00	809.29	1,331.29
TOTALS	156,635,260		\$5,926.50	\$10,490.92	\$16,417.42

MOLOKAI IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (gallons)	Acreage	Service Charge	Water Charge	Total
1973					
July	37,887,000	8,022	8,067.45	3,030.96	11,098.41
August	53,547,000	8,024	8,071.85	4,283.76	12,355.61
September	81,964,000	9,752	12,475.35	7,521.60	19,996.95
October	72,660,000	9,756	9,544.45	6,080.32	15,624.77
November	65,279,000	9,729	9,515.85	6,101.36	15,617.21
December	16,536,000	9,731	9,516.95	1,859.84	11,376.79
1974					
January	3,853,000	9,733	9,519.70	515.92	10,035.62
February	4,899,000	9,735	9,521.47	409.52	9,930.99
March	5,164,000	9,736	9,522.45	413.12	9,935.57
April	9,277,000	9,741	9,532.35	742.16	10,274.51
May	12,020,000	9,746	9,535.10	961.60	10,496.70
June	15,046,000	9,746	9,532.35	1,203.68	10,736.03
TOTALS	378,132,000		\$114,355.32	\$33,123.84	\$147,479.16

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. 80-858, as amended
Makaha, Oahu*	P.L. 80-858, as amended
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. 83-556, as amended
Wailuku-Alenaio, Hawaii**	P.L. 83-556, as amended
Happy Valley, Maui**	RC&D

*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 1973-74 for the following areas:

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

Maps for the following areas are being prepared:

Moikeha-Waikea, Kauai
West Molokai, Molokai
Pauoa Stream, Oahu
Olowlu, Maui
Hanamaulu, Kauai

PUBLICATIONS BY THE DIVISION DURING THE FISCAL YEAR

1. Report R42, Climatologic Stations in Hawaii
2. Report R51, Pan Evaporation in Hawaii, 1894-1970
3. Circular C64, Summary of Drilling Log and Pumping Test for Piihonua Well 4306-01, Hilo, Hawaii
4. Circular C67, Geologic Descriptions of Quarries on Oahu

DIVISION OF WATER AND LAND DEVELOPMENT

Construction Projects Started, Under Construction or Completed For Fiscal Year 1973-1974

Job No.	Description	Cost of Projects	Starting Date	Completion Date	Contractor
LAND PROJECTS					
33-KL-2	Waimea Heights Subdivision, Increment I, Waimea, Kauai, Hawaii	\$289,831.70	10-26-71	5-10-74	Mark Construction, Inc.
50-KL-10	Hanapepe Heights Residential Subdivision, Hanapepe, Kauai, Hawaii Schedule I	40,329.83	12-13-71	3-20-74	Mark Construction, Inc.
31-HL-21	Waiakea Houselots Subdivision, 6th Series, Waiakea, So. Hilo, Hawaii	210,642.80	2-20-73	1- 5-74	J.M. Tanaka Const., Inc.
18-KL-14	Wailua Houselots Subdivision, 6th Series Mango-Grove, Wailua, Kauai, Hawaii	214,840.00	4- 9-73	4- 3-74	E.F. Nilson, Inc.
41-OM-28X	Clearing of Facilities at Temporary Sewage Plant, Waimanalo, Oahu, Hawaii	5,180.00	12-17-73	2-15-74	Tajiri Lumber, Ltd.
10-HL-8	Waterline for Keonepoko Iki Houselot and Farm Lot Subdivision, Keonepoko Iki, Puna, Hawaii	126,125.00 ¹	5-28-74	10-24-74*	Willocks Construction Corp.
WATER PROJECTS					
12-KW-9AR	Installing Pumps & Connecting Pipeline, Wailua-Kapaa Water System, Wailua, Kauai, Hawaii	\$ 73,419.69	10-12-71	11-28-73	Singer-Layne Int'l Div.
35-MW-14	1.0 M.G. Alaeloa Tank, West Maui Water Project, West Maui, Hawaii	274,513.80	2- 1-72	8- 7-73	E.T. Ige Const., Inc.
13-KW-10	8-Inch Pipeline, Koloa-Poipu Water System, Koloa, Kauai, Hawaii	82,907.41	6-13-72	9-19-73	E.F. Nilson, Inc.
3-9W-28	Waikolu Surface Water Development Molokai Water Project, Phase II Kalawao, Molokai, Hawaii	754,520.95	7-12-72	7-15-74	J.A. Thompson & Son, Inc.
2-HW-13	Installation of Water Lines, Lalamilo Irrigation System, S. Kohala, Hi.	122,906.00	8-28-72	6- 8-73	J.M. Tanaka Const., Inc.
35-MW-17	Kanaha Well 5339-04, West Maui Water Project, West Maui, Hawaii	106,204.00	12-27-72	7- 3-74	Singer-Layne Int'l Div.
48-HW-13	50 M.G. Waikoloa Reservoir II, South Kohala Water Project, So. Kohala, Hi.	915,796.30 ¹	1-29-72	9- 6-74*	J.A. Thompson & Son, Inc.
12-KW-8	2.0 M.G. Tank, Wailua-Kapaa Water System, Wailua, Kauai, Hawaii	506,900.00 ²	3-19-73	4- 4-74	Kauai Builders, Ltd.
14-KW-10	Kilohana Wall 5823-02, Lihue Water System, Lihue, Kauai, Hawaii	98,132.50	4- 2-73	2-13-74	Roscoe Moss Company
22-HW-18	Naalehu Pump & Controls, Ka'u Water Project, Naalehu, Ka'u, Hawaii	148,777.48 ²	4- 4-73	8-15-74*	Constructors Hawaii, Inc.
51-KW-10	Water Treatment Plant, Modifications & Appurtenances, Kalaheo Water System, Kalaheo, Kauai, Hawaii	317,043.70 ²	7-16-73	9- 6-74*	Channel & Harbor Dredging
35-MW-19	Kepaniwai Well 5332-05, Central Maui Water Source Development, Wailuku Maui, Hawaii (Schedule A)	10,240.00	7-23-73	10- 5-73	Continental Drilling Co.
51-KW-11	Pump, Tank, Pipeline & Controls, Kekaha Water System, Kekaha, Kauai, Hi.	451,630.91 ²	7-30-73	8- 4-74*	F.T. Opperman, Inc.
35-MW-19	Kepaniwai Well 5332-05, Central Maui Water Source Development, Wailuku Maui, Hawaii (Schedule B)	59,554.20	9-21-73	2-13-74	Roscoe Moss Company
3-9W-33	Extension of Waterline, Molokai Irrigation Project, Molokai, Hawaii	25,998.70	11-12-73	2-12-74	Molokai Construction, Inc.
35-MW-16	Pump, Tanks & Pipeline, West Maui Water Project, Napili-Alaeloa West Maui, Hawaii	534,039.00 ²	11-19-73	8-15-74*	Fong Construction Co.
35-MW-21	12-Inch Transmission Main, West Maui Water Project, Alaeloa, West Maui, Hi.	85,770.00 ¹	11-19-73	7-27-74*	E.T. Ige Construction, Inc.
35-MW-25	Waikapu Well 5130-02, Central Maui Water Source Development, Waikapu, Maui, Hawaii	149,770.00 ²	11-19-73	7-20-74*	Roscoe Moss Company
19-KW-6	Hanapepe Well 5533-01, Hanapepe Water System, Hanapepe, Kauai, Hawaii	53,375.00 ¹	5-28-74	12-23-74*	Roscoe Moss Company
51-KW-14	Kalaheo Well 5631-01, Kalaheo-Lawai Water System, Lawai, Kauai, Hawaii	187,080.00 ¹	5-28-74	12-23-74*	Roscoe Moss Company
22-HW-16**	Diversion Works & Supply Line, Kehena Ditch Water Project, No. Kohala, Hi.	840,000.00			Isemoto Contracting Co., Ltd.

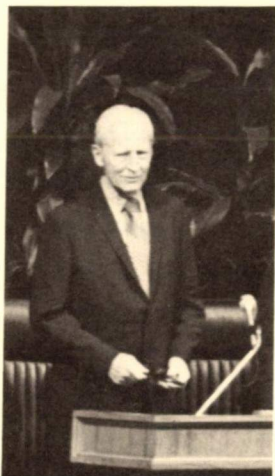
Job No.	Description	Cost of Projects	Starting Date	Completion Date	Contractor
8-HW-40	Water Development Shaft, Kona Water Project, Kahaluu, N. Kona, Hawaii	1,685,694.00 ¹	7-10-74	9- 2-75*	Harrison-Western Corp. & J.W. Schulze, Inc. (J.V.)
51-KW-16	Drilling Aliomanu Well 1020-04, Moloaa Forest Reserve, Kauai, Hi.	117,560.00 ¹	6-17-74	11-13-74*	Roscoe Moss Company
FISH & GAME PROJECTS					
37-MM-7	Kanaha Pond Improvements, Kahului, Maui, Hawaii	\$ 78,046.50 ¹	3- 4-74	7-31-74*	Fong Construction Co., Ltd.
FORESTRY PROJECTS					
37-MM-8	Kula Forest Reserve, Paving Polipoli Access Road, Kula, Maui, Hawaii	\$ 56,995.21	9-28-73	11-21-73	Fong Construction Co., Ltd.
STATE PARKS PROJECTS					
5-OP-6	Site Improvements & Landscaping, Nuuanu Pali State Park, Nuuanu, Oahu, Hi.	\$ 201,166.01	2- 7-72	5-13-74	A.C. Chock, Inc.
23-HP-11	Park Development-Unit I, Hapuna Beach State Park, Lalamilo, Hawaii	427,730.70	4-17-72	1- 9-74	M. Sonomura Cont. Co., Inc.
36-MP-15A	Comfort Station, Kaumahina State Wayside, Koolau, Maui, Hawaii	23,879.80	4-23-73	12- 7-73	Service Contracting Co.
54-KP-6	Reconstruction & Restoration of Waimea Pier, Waimea, Kauai, Hi.	147,000.00	6-19-73	4- 9-74	Richard K.W. Tom, Inc.
5-OP-8X	Interpretive Display Kiosk in Pavilion Hanauma Bay State Underwater Park, Koko Head, Oahu, Hawaii	7,712.00	9- 4-73	12-18-73	Richard K.W. Tom, Inc.
30-KP-21	Boat Landing at Fern Grotto, Wailua River State Park, Wailua, Kauai, Hi.	85,496.00	11-12-73	12-27-73	Dillingham Corporation
54-KP-5	Materials for Park Facilities, Polihale State Park, Waimea, Kauai, Hi.	52,178.80	12- 3-73	5- 1-74	Hale Kauai, Ltd.

* Estimated Contract Completion Date

** Contract Awarded Only

¹ Contract Bid Amount

² Adjusted Contract Amount



April 11, 1974
Hawaii State Capitol

“... An ailing Governor John A. Burns, around whom much of the Democratic “revolution” swirled, appeared before an emotionally charged joint-session on closing day and bid the Legislature farewell.

Surrounded by many legislators and government officials who had struggled with him in the early days, Burns said:

“No State has as great a legislature as the State of Hawaii... I will miss the comradeship we have shared so long.”

It was the Great White Father making his farewell address, and many who listened to it wept. . . .”

Honolulu Star Bulletin
April 12, 1974

WE DEDICATE THIS REPORT TO GOVERNOR JOHN A. BURNS

... Aloha pumehana loa a mau a mau

Cover Photo:

Helicopter carries trout fingerlings for drop into Kawaikoi
Stream on Kauai.

Photo Credits:

Friends of Iolani Palace: Pages 32-33

Bill Gorst: Page 36

Richard Kanayama: Page 37

James Kikuchi: Page 38

Bill Thompson: All others