

1969-1970 Report to the Governor



DEPARTMENT OF LAND AND NATURAL RESOURCES STATE OF HAWAII



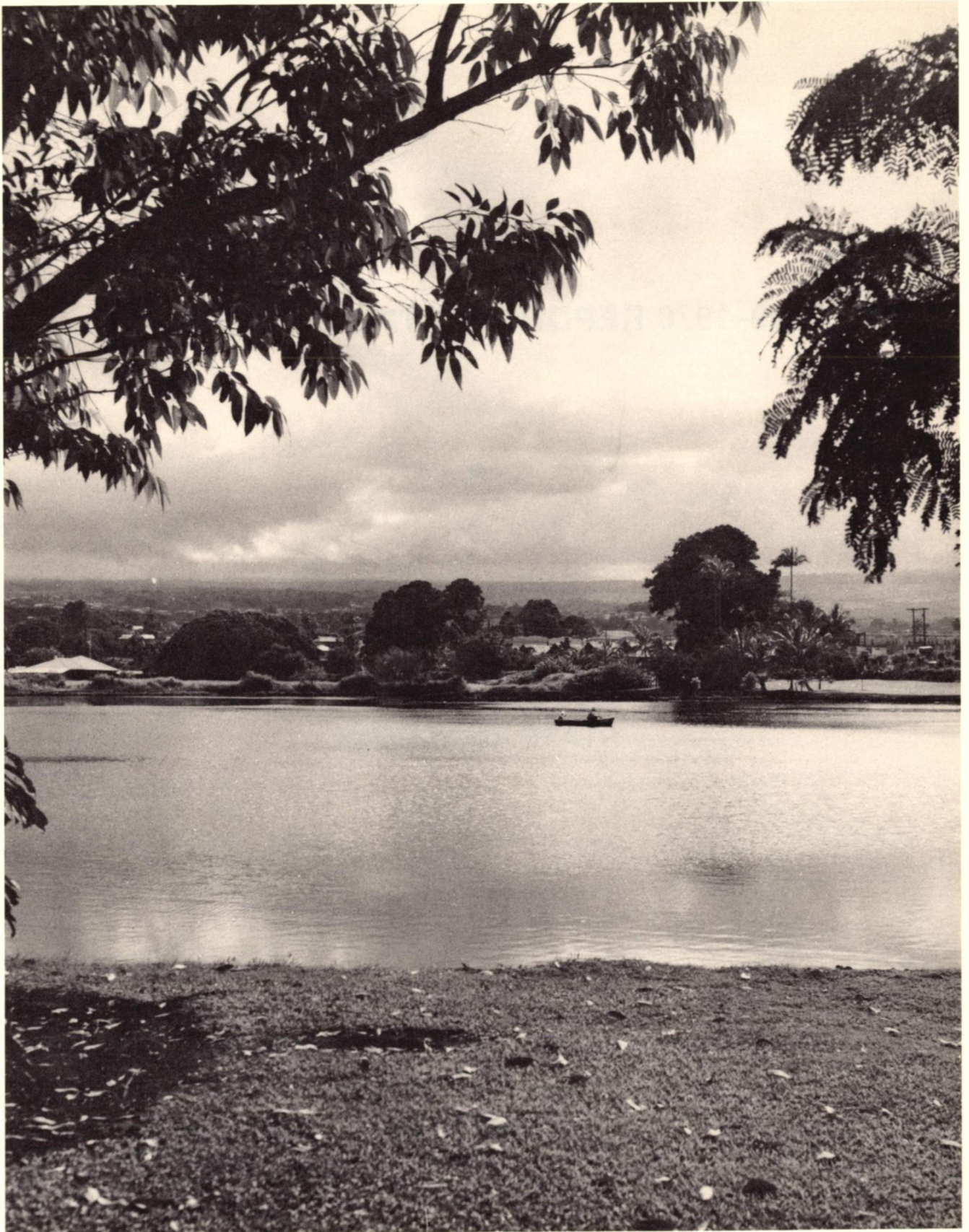
1969-1970 REPORT TO THE GOVERNOR



DEPARTMENT OF LAND
AND NATURAL RESOURCES
STATE OF HAWAII



JULY 1, 1969 to June 30, 1970 inclusive
HONOLULU, HAWAII
JANUARY 1971



He leadeth me beside the still waters.
He restoreth my soul: Psalms.

JOHN A. BURNS
GOVERNOR OF HAWAII



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

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

November 15, 1970

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

Dear Governor Burns:

I take great pleasure in presenting, on behalf of the members of the Board and the staff, the Annual Report of the Department for 1970. This has been a great year of change and growth for the State. It is our belief and hope that the efforts of the Department have significantly contributed both to initiate and sustain this progress.

We have continued during the period our efforts towards development and utilization of the basic land and water resources of the State to meet the urgent needs of the people for housing, for pure water, for outdoor recreation, and for employment. Additionally, we have expanded and intensified our efforts for restoration and preservation of historic and cultural places within the State; and for preservation of natural areas, wildlife habitat, and endangered species of flora and fauna. We are making substantial progress in all of these programs.

In company with other agencies of the government, we are deeply involved in improving our management of the resources with which we conduct our programs, and the natural and man-made assets of the State which are placed in our care. The development of effective procedures for Planning-Programming-Budgeting Systems (PPBS) for the State government will greatly improve our capability in this respect. With your continued guidance, we shall succeed.

Respectfully submitted,
BOARD OF LAND AND NATURAL RESOURCES

SUNAO KIDO
Chairman and Member



THE BOARD OF LAND AND NATURAL RESOURCES

Newton Miyagi (Oahu), Larry Mehau (Hawaii), Manuel Moniz, Jr. (Maui)
 George Yamaki (Oahu), Dr. Nobuichi Masunaga (Kauai)
 Sunao Kido—Chairman

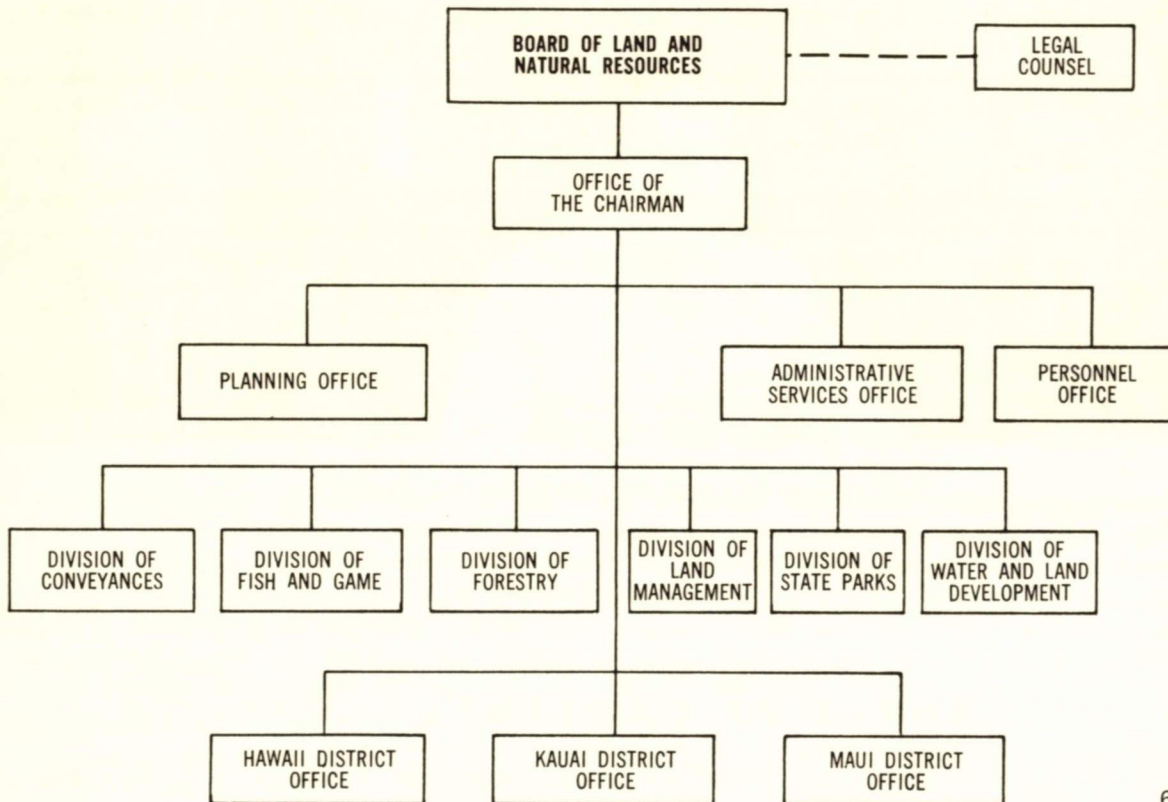
TABLE OF CONTENTS

	Page
Office of the Chairman	5
Division of Conveyances	8
Recordation	9
Division of Land Management	10
Land	11
Division of Forestry	13
Timber	14
Recreation	16
Division of State Parks	
Outdoor Recreation & Historic Sites	22
Preservation	24
Division of Fish and Game	29
Commercial Fishery	31
Water	33
Division of Water and Land Development	37
Flood Control	38
Environment	39

Office of the Chairman

SUNAO KIDO, Chairman
WILLIAM Y. THOMPSON, Deputy

ORGANIZATION CHART DEPARTMENT OF LAND AND NATURAL RESOURCES



6/30/70

The Board of Land and Natural Resources is responsible for the conservation, protection, and effective utilization of the mineral, forest, water, land, wildlife and fish, and the other natural resources owned and controlled by the State of Hawaii. The Board, through the activities of the Chairman and the staff of the Department, administers and manages these vital resources for the benefit and enjoyment of the public. The program goals and objectives of the Department, approved by the Board, recognize the vital relationships that exist between the management of these resources and the overall environment of the State. Due consideration is given to the basic social values inherent in the effective and efficient development and utilization of these State resources to meet recognized needs.

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

The Chairman is appointed by the Governor from among the members of the Board, and serves also as the full-time Executive Officer of the Department of Land and Natural Resources. He assumes cabinet rank, and serves as the representative of the Board in dealing with the Office of the Governor and with the State Legislature.

Several significant changes affected the membership of the Board during the year. Mr. Larry Mehau of Kamuela, Hawaii, was appointed as Member from Hawaii, the First Land District, on January 6, 1970 to fill a vacancy left by

Mr. Norman Koshiyama. Mr. Tai Sung Yang of Wailuku, Maui, completed two full terms as a Member of the Board, and in accordance with statutory limitations, left the Board effective January 19, 1970. Mr. Manuel Moniz, Jr. of Kahului, Maui, was appointed to the Board as Member from Maui, the Second Land District, effective January 20, 1970.

MAJOR PROGRAMS

Major efforts have been expended during the past year in developing the capability for Program Planning within the Department. Training and indoctrination of staff and personnel in the sophisticated management techniques is essential in view of the passage in the 1970 Legislative Session of ACT 185, which calls for presentation of Program Budgets in future years. The management audit and review, and subsequent reorganization of staff and operating units continues, and is closely related to the parallel development and effective utilization of Planning, Programming, Budgeting Systems (PPBS) in the Department and in the State government.

The Board and the Chairman have continued to emphasize departmental programs dealing with the needs of the public for outdoor recreation, and for residential housing. There has also been particular emphasis on the investigation and protection of historic and archeological sites and objects, with the intent of saving these irreplaceable assets from future harm or loss.

All of the programs of the Department, and particularly those leading to physical development of land and other natural resources have been subjected to rigorous reviews in relation to their effects on the total environment of the State. The ecological consequences of the decision process within the Department are being evaluated in relationship to the strong and growing public interest in environmental quality control.

STAFF OFFICES AND SERVICES

The overall activities of the Board and the Chairman in directing and coordinating the functions and activities of the operating units of the Department are supported by several staff units.

Administrative Services Office

Adelino Coito

Administrative Services Officer

This office provides essential staff and support services for the Board and the Chairman, and for the several operating divisions of the Department. These activities include budget preparation and expenditure controls, centralized purchasing, and fiscal accounting and evaluation. Payrolls are developed and computed for the entire Department, and Federal fund reports and re-imbursements are computed and completed for all programs. Funds are collected for the Department, and for several other agencies of the State, and monies are deposited to the appropriate accounts. Monthly reports of accounts are prepared and distributed to each agency.

The office staff prepare and review various fiscal and accounting reports, including those for the appropriate Federal agencies concerned with commercial fisheries, forestry, and outdoor recreation and open space. Detailed analyses and recommendations are prepared for the Chairman, Division Heads, and Program Managers relative to budgetary controls and expenditures.

The introduction of Electronic Data Processing for fiscal accounts in the State government has significantly increased the workload of the staff. The quantity and technical complexity of fiscal evaluation and reporting has been greatly increased through adoption by the State government of Program Budgeting.

Planning Office

Gordon Soh

Planning Coordinator

The Planning Office Provides planning services and support to the Chairman and to Division Heads and Program Managers. The planning staff aid in the formulation of departmental goals and objectives; supervise the conduct of planning studies; help in the development of long-range plans for use of State lands and natural resources; and, coordinate the departmental planning programs. Additionally, the Planning Coordinator and his staff coordinate and correlate the development of the Capital Improvement Program budget for the Department, and review capital expenditures within these programs. The office also aids the Chairman in administering land use controls within the Conservation District in the State.

A major function of the office in administering land uses within the Conservation District involves review and processing of land use applications under the provisions of Department Regulation No. 4, which relates to permitted uses of lands within such districts. A total of 39 applications, predominantly for residential uses, were received and

processed during the year. In addition, the staff also coordinated Departmental reviews of numerous construction and development plans on State lands within the Conservation District and in other areas, to determine if proposed projects would have any adverse effects on fish, wildlife, and forestry values; on conservation of soil and water; on historic or aesthetic values; or, whether these projects could potentially create flood, erosion, or other hazardous conditions. Determinations also included whether proposed plans could conflict with existing State or County plans for the areas involved.

A significant amount of the total staff capability within the office was expended in implementation of provisions of ACT 68, the so-called "Developers Bill." Progress was made in the development of the Kekaha Residential Development project on Kauai, which was finally awarded to a private development company. Land use maps were completed for State lands in the Waimanalo area on Oahu, and initial steps were taken towards creation of Master Plans for State lands at Waimanalo, Kuliouou, and Anuenue (Sand) Island on the Island of Oahu. The staff also actively participated in supervising construction of model homes for the Governor's Statewide Housing Fair.

Significant activities of the office also included preparation of various reports and documents, preparation of legislative materials, and provision of direct assistance to various divisions in review of specific project plans.

Personnel Office

Andrew Y. Seki
Personnel Officer

The Personnel Office maintains a comprehensive personnel program for the entire Department. The staff provide supportive services to the Chairman and to the six operating divisions and two staff offices.

Major services provided include guidance and technical assistance in such specialized areas as position classification, employee relations, and employee training and development. The office maintains a centralized system for processing, recording, reporting, and filing personnel transactions and records of all employees. The Personnel Officer prepares, and makes recommendations for adoption of personnel policies and procedures within the Department.

In addition to the normal routine services provided to divisions, the office was involved also in providing specialized personnel and management services to the Planning Office, the Divisions of State Parks, Outdoor Recreation and Historic Sites, Forestry, Fish and Game, and Water and Land Development in the hiring and utilization of a total of 269 temporary student workers for summer work programs.

Major emphasis was placed during the year on recruitment of management and technical personnel to fill a number of long-standing vacancies in some divisions. The effort was successful, in-as-much as the Department was able to fill all such outstanding vacancies during the past year.

Engineering Services Unit

The Engineering Services Unit provides technical and professional support services to the Chairman and to the various operating divisions requiring such services.

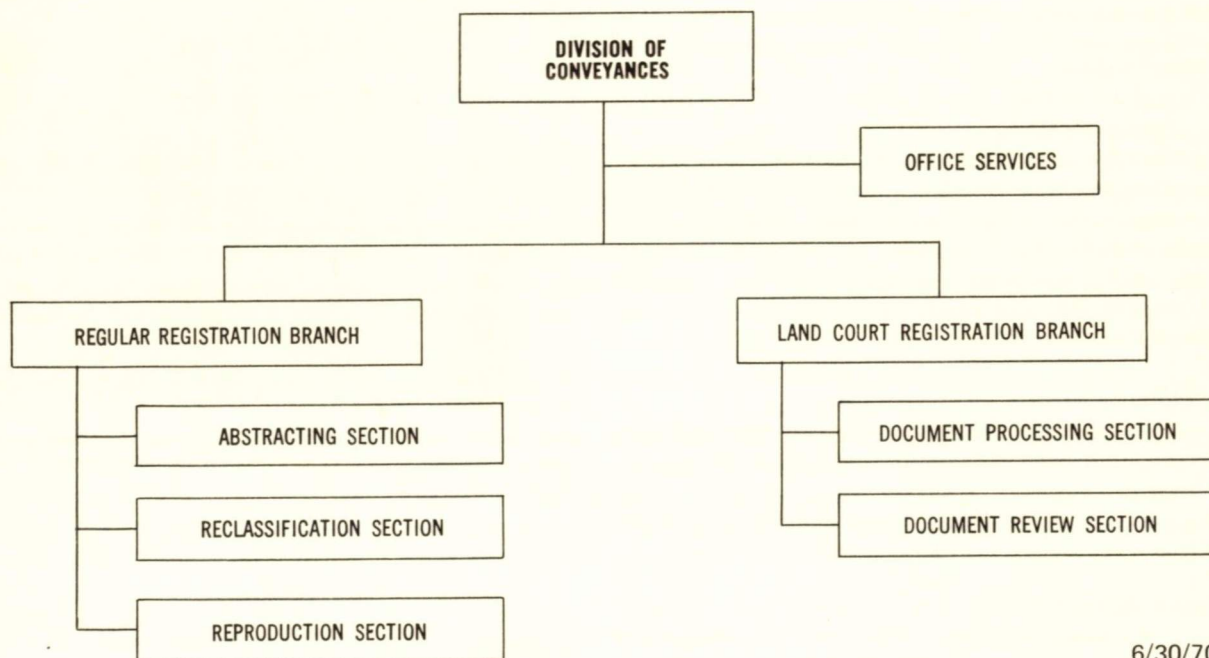
Services provided by this group include civil engineering assistance in preparation of plans; design and specifications for development projects; administration of contracts; and, inspection and acceptance of completed development projects. Engineering and technical personnel for this Service Unit are provided as required from the regular staff of the Division of Water and Land Development. This utilization of staff capability from the division reduces the need for duplication of similar capabilities within other divisions in the Department.

During the past year, the Group was involved in providing service and assistance to the Division of Land Management in five projects, including the Waimanalo Core Development, Shafter Flats Industrial Sub-division, and the Food Distribution Center project at Fort Armstrong. Engineering service was provided for seventeen parks projects, the most significant of which was the construction of additional buildings and a water storage tank for Mauna Kea State Park on the Island of Hawaii.

Division of Conveyances

MICHIKI ADACHI, Registrar of Conveyances

ORGANIZATION CHART — DIVISION OF CONVEYANCES



6/30/70

The Bureau of Conveyances is specifically authorized within the Department of Land and Natural Resources under the provisions of Chapter 502 of Hawaii Revised Statutes. Chapters 501-502, and other related sections of the Statutes guide the land title registration programs of the Division, as well as the registration of other legal documents.

The Bureau of Conveyances is the sole agency within the State of Hawaii authorized to receive and register all land title documents and maps. The principle functions of the office are to receive, file, record, index, maintain and preserve all legal and land title documents and maps affecting land titles in the State of Hawaii; as well as the preparation and issuance of certified copies of any such document on record. These services are provided for fee simple and leasehold property owners, financing institutions, land title and escrow companies, attorneys, government agencies, and those members of the general public desiring these services or use of the official records.

In compliance with different legal and procedural requirements, the general functions of the Bureau are divided into two main branches and a supportive services section.

The Land Court Registration Branch is concerned primarily with the filing, processing, indexing, maintaining and preserving of all Land Court title documents and maps affecting title to lands registered in the Land Court; with issuance of Land Court Certificates of Title guaranteed by the State; and with the preparation and issuance of certified copies of any such documents of record. The Registrar of Conveyances is directly responsible to the Land Court for all matters relating to functions of this branch.

The Regular Registration Branch is concerned with the recording, processing, indexing, maintaining and preserving of all legal and land title documents and maps affecting unregistered land entitled to recordation; and with preparation and issuance of certified copies of all such documents on record.

RECORDATION

Hawaii is perhaps unique within the Fifty States in that there is but a single office for the registration of land title documents and for transfer of such title. The Bureau of Conveyances within the Department performs this service for the entire State, with the exception of certain transfers of Public Lands which are recorded by the Division of Land Management, also a part of the Department. Maintenance of a single office of record within the State has virtually eliminated errors in the documentation and transfer of land title within the State.

During the past fiscal year, the Bureau received and processed a total of 92,638 documents of all kinds, a modest increase of approximately 2,000 over the previous year. Service fees collected by the Bureau during the year were approximately \$475,000. Disbursements for all purposes totalled \$378,000 for the period. The Bureau has for many years operated at a net profit to the State.

Additionally, as a convenience for the State Department of Taxation, the Bureau collected approximately \$411,000 in Conveyances Taxes for the year, a slight increase over the previous period. The total value of real property transferred, and registered with the Bureau, exceeded \$822,000,000. Approximately \$304,000,000 of this value represented the leasehold value of property transferred.

Microfilm

A program for micro-filming of all the current document flow, as well as for processing all Land Court Documents and Regular Registration Libers on record has been conducted for the past several years. Basically, the micro-filming is carried out to provide the State with security copies of all records in case of destruction, theft, or malicious damage to the original Land Court Records, Regular Registration Libers, and other records stored within the Bureau. The availability of a complete micro-film record also allows the Bureau to produce within a matter of minutes, upon request, certified copies of any matter of record. This immediate service was not possible prior to this overall use of micro-filming.

There is also the possibility, when the micro-film files are completed and verified, that these files could be used directly with proper micro-film readers for direct reference purposes. This would allow the Bureau to transfer all of the original records currently stored in the Bureau to the State Archives for permanent storage under proper conditions. The additional space made available in the Bureau by this transfer would greatly improve services to the public.

As an additional security feature, all of the original micro-films prepared in the Bureau are stored with the State Archives until such time as a more appropriate State storage facility may be completed. Duplicates of all the micro-films are maintained at the Bureau, and are used for limited reference purposes, and for production of certified copies of the matters of record.

Condominiums

The overall workload of the Bureau has been greatly increased with the recent up-swing in the construction of

condominium apartment buildings. This demand is caused in turn by the great increase in demand for residential units, coupled with the scarcity and high cost of land, particularly in the Honolulu area.

The Land Court Branch accepted and processed a total of twenty condominium maps representing 2818 units during the year, while the Regular Registration Branch accepted twenty-nine such maps representing 2327 units in the same period.



Operator checking microfilm records with a reader-printer in preparation for producing certified copies of matters of record in the Bureau.

Legislation

ACT 15 of the 1970 Legislative Session clarified provisions of Chapter 501-116 Hawaii Revised Statutes, by deleting reference to the creation of separate security interest in fixtures upon Land Court real property, pursuant to the Uniform Commercial Code. This act now clarifies and removes all doubt as to the proper place to record documents perfecting security interests in personal property.

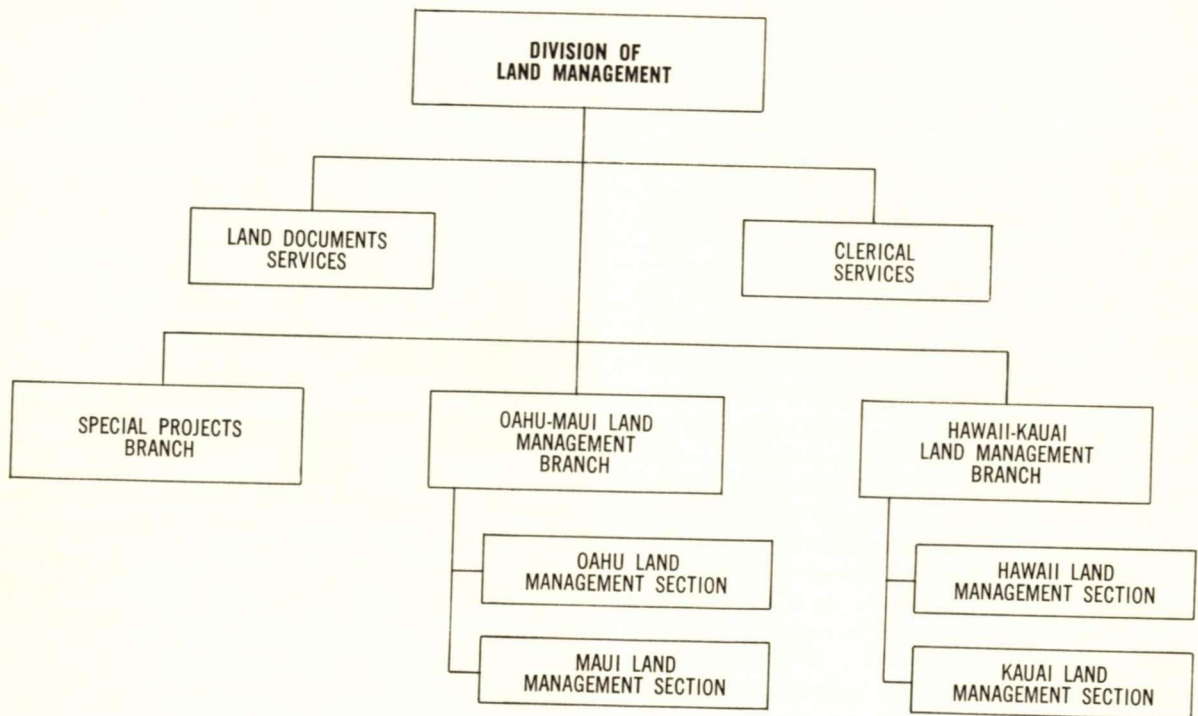
Public Service

During past years, six private title companies occupied approximately 1000 square feet of floor space within the Bureau of Conveyances building. The rapidly increasing accumulation of permanent records in both the Land Court and Regular Registration systems has necessitated a reduction in the space utilized for this public service. Space changes made during the year have resulted in a current occupancy by seven title companies occupying a total 225 square feet of space, while at the same time providing additional storage space for vital records. The title companies have expressed no adverse effects, although they have lost a major portion of the space previously made available to them.

Division of Land Management

JAMES DETOR, Land Management Program Administrator

ORGANIZATION CHART — DIVISION OF LAND MANAGEMENT



6/30/70

Chapter 171 of Hawaii Revised Statutes defines the Public Lands of the State, and additionally mandates the Department of Land and Natural Resources to manage, administer, and exercise control over these public lands. Chapter 171 also defines rather specifically the functions and activities authorized the Department in performing these responsibilities. Other sections of the Statutes, notably Chapters 172-174 and 181-182, give guidance and direction to the activities of the Department in this program.

The Division of Land Management has as its goal, the prudent management of the public lands of the State of Hawaii. Under the administrative control and direction of the Chairman, the Division is responsible for acquisition of lands for public uses; the management and regulation of public lands, and disposition of public lands to meet approved needs. The Division also is an office of record, and is responsible for the maintenance and protection of certain records, such as land patents, special sale agreements, leases, revocable land permits, and other similar documents issued from the office. The above are all public records, and as such, are made available to the public for inspection at all times during regular office hours.

The Division carries basic responsibility for development of State lands for residential, industrial, and hotel-resort purposes, and undertakes these projects with the support of the Departmental Planning Office and the Division of Land and Water Development. Cooperative action is taken with the Division of Forestry relative to the control and protection of public lands within the Conservation Districts, which may not necessarily be a part of the forest or watershed reserves.

The Division functions officially at this time in three major branches designated as: Special Projects Branch, Oahu-Maui Land Management Branch, and Hawaii-Kauai Land Management Branch. Operationally however, and subject to management review, the Division functions in three sub-units generally identified as: Acquisitions Branch, Dispositions Branch, and Special Services Branch, with duties and functions generally suggested by the names. In addition, there are Land Agents assigned to the islands of Hawaii, Maui, and Kauai, accountable generally to the Head of the Land Management Division, who carry out duties as assigned.

In addition to acquisition, disposition, and general management of the public lands, minor activities of the staff of the division include period inspections of the public lands, enforcement of terms and conditions of lease and sale documents, inventory and appraisal of lands, and land use and land project planning.

LAND

The land administration and land management programs of the Department are concerned primarily with State owned lands classed as Public Lands, and with State and private lands designated as Conservation District. The Public Lands are those lands which are not assigned to some State, Federal, or County agency for public use, and thus are available for lease, sale, or assignment for public or private uses. Conservation District are those lands within the State so designated by the State Land Use Commission and encompass State lands set aside as forest and watershed reserves as well as private lands initially surrendered under agreement as forest reserves. Conservation District also includes both public and private lands not otherwise designated as Urban, Rural, or Agricultural District by the Land Use Commission. The Department of Land and Natural Resources, under the provisions of Chapter 205 of Hawaii Revised Statutes, is responsible for administration of Conservation District land.

The State Legislature, during the 1970 Session, passed two Acts which will have substantial effect on the land programs of the Department. ACT 110, appropriates the sum of \$5,679,000 to the Department for development of residential houselots on State lands throughout the islands. This act will greatly accelerate the ongoing program of residential subdivisions, and is particularly designed to satisfy low and middle income housing demand. ACT 139 establishes a Commission for Preservation of Open Space, which is advisory to the Department and to the Governor. The recommendations of the Commission, which is established within the Department, will provide essential criteria for the selection of areas to be preserved, and will provide guidance for development and administration of an effective program for preservation of such areas.

Land Acquisition

The Division of Land Management conducts a service program for acquisition of private lands for public purposes, servicing the needs of virtually all State Agencies. During the year, the Division completed acquisition of a total of 19 parcels for other agencies, consisting of 138 acres for all purposes, at a cost in excess of six million dollars. A total of 113 acquisitions were in process during that period, including twelve new requests received from other agencies.



Construction of residential units within the Mohouli Low Cost Housing Sub-division in Hilo, Hawaii.

In addition, the Division completed acquisition proceedings for the 5,000 acre Kahana Valley for a major State Park, and of a parcel of 25 acres required for expansion of Waianapanapa State Park on the Island of Maui. Acquisition appraisal reports were completed for proposed major park acquisitions at Haena and Na Pali on the Island of Kauai; at Kealahakua Bay on the Island of Hawaii; and Makua-Kaena Point on the Island of Oahu.

Land Disposition

Division of Land Management is responsible for active management of approximately 500,000 acres of Public Lands of the State, and for administrative review of approximately 200,000 acres of State lands assigned under Executive Order to various Federal, State, and County agencies for public purposes.

During the Fiscal Year, the Division completed disposition of a total of 17,006 acres of land in 309 transactions, generating direct revenues to the State General Fund of approximately \$970,000.

TRANSACTIONS			
Executive Orders	525 acres	—	
Sales in Fee	18 acres	\$ 632,000	
Leases	8,780 acres	259,341/Year	
Revocable Permits	2,683 acres	515,328/Year	
TOTAL	17,006 acres	\$ 970,000	

At the end of the Fiscal Year, June 30, 1970, the Division had an active listing of 929 leases covering a total of approximately 480,000 acres of Public Lands. Land uses under these leases included such activities as agriculture and pasturage, business and industrial, resort-hotel, residential and recreational, government, and water licenses. Annual rental payments from these leases and other land based revenues, paid into the State General Fund and to the Hawaiian Homes Lands Commission, reached a total of \$3,179,503 for the year.

The Division Land Use Specialist conducted a total of 70 intensive inspections of agricultural land leases covering approximately 31,000 acres of State lands. Reports prepared covering the lands inspected included recommendations on existing and potential land uses, enforcement of lease terms, and corrective actions for improvement of eroded and damaged lands. The State Land Ranger and Land Agents together conducted a total of 200 inspections of land areas under lease in connection with enforcement of lease terms and conditions.

Land Development

The Division, with support from the Department Planning Office and the Engineering Services Unit of the Division of Water and Land Development, completed three major development projects during the year, including realignment of Banyan Drive in Hilo, Hawaii; pumps and waterlines for the Hanapepe Water System on Kauai; and Unit III of the Shafter Flats Industrial Subdivision in Honolulu. Two major projects were in active construction phase at the end of the year: pumps and pipelines of the Waimea Water System on the Island of Hawaii; and major elements of the Waimanalo Core Development sewer system, on the Island of Oahu. Plans and specifications were complete, and a construction contract was ready for bid on the Food Distribution Center Project at Fort Armstrong, Honolulu, Oahu.

Conservation District

The Division of Forestry carries the primary responsibility for administration and management of State lands within the Conservation District. These are State lands initially set aside for forest and forest reserve of the State, and comprise approximately 800,000 acres. Additionally,

within the District and under administrative control and management of the Division are some 39,000 acres of government lands owned or controlled by the Hawaiian Home Lands Commission, the Federal government, and the several County governments. Approximately 349,000 acres of private lands, originally surrendered under agreement to the forest reserve, are also included in the Conservation District and are subject to control and management by the Division.

Management of the forested lands within the District is generally directed to protection of the forests and watershed from damage from fire, insects, disease, and feral or domestic animals; with enhancement of water production capability of the watershed areas; and with maintaining high standards of water quality and environment through adherence to soil and water conservation practices. This program interacts closely with the programs of the fifteen Soil and Water Conservation Districts in the State, and generally relates to the operations and functions of the Division of Water and Land Development and with the water quality control responsibilities of the Hawaii Department of Health.

The Division of Forestry, together with the Division of Land Management and the Department Planning Office is deeply involved with administration and enforcement of Departmental Regulations (Regulation No. 4) relating to administration of the Conservation District. The Forestry Division conducts on site inspections and reviews proposals for development projects on State or private lands within the District. The Planning Office and Division of Land Management are directly concerned with overall administration of the program and with determination of permissible developments within the District boundaries.

The Forestry staff carry the principal burden of enforcement of regulations relating to the Conservation District especially in relation to unlawful entry or trespass, or of violation of terms and conditions of construction permits.

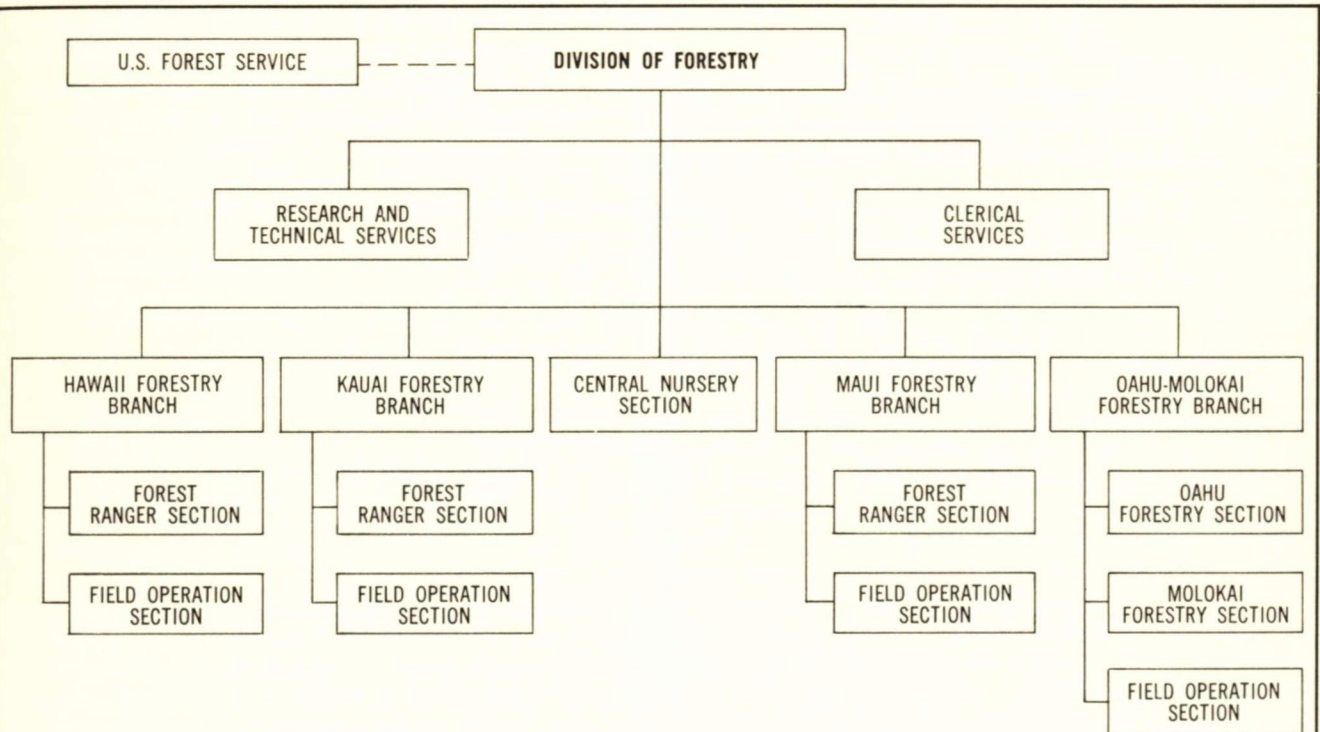


A beautiful home created in the State's University Heights Residential Subdivision at Hilo, Hawaii.

Division of Forestry

TOM K. TAGAWA, State Forester

ORGANIZATION CHART — DIVISION OF FORESTRY



6/30/70

The Division of Forestry, under the general direction of the Chairman, manages the State-owned forest resources within the Conservation Districts. Staff and personnel of the Division also promote forestry and protect forested areas from fire, insects and diseases on privately owned lands throughout the State.

The Division of Forestry in the Department is authorized within the provisions of Chapter 183 of Hawaii Revised Statutes. The law provides generally for the conduct of investigations in development and improvement of the commercial and aesthetic aspects of the forested lands of the State; and most particularly for the protection and improvement of the watershed areas and water supply of the islands. The responsibilities of the Division, as well as the activities and functions, are further defined and directed within Chapters 183-185 and 187-193, as well as in other related sections.

The Division of Forestry maintains a close working relationship with the U. S. Forest Service, and the forestry programs receive substantial support from that agency in the form of grants for seedling propagation, tree planting, technical assistance to forest landowners, and in research related to protection of forests from damage by fire, insects, and diseases.

Programs of the Forestry Division are closely related to programs carried on by other Divisions within the Department. Strong interactions exist between the parks and recreational programs of the Division of State Parks, Outdoor Recreation and Historic Sites, and the development of forest trails and roads, and scenic outlooks. Foresters are jointly concerned with Fishery and Wildlife Biologists in the protection and preservation of natural and wildlife habitats within the upland and forested areas of the State. Forestry programs for protection and enhancement of the watershed and forested areas are closely allied with the water resources and water development programs initiated and managed by the Division of Water and Land Development and by the Departments of Water Supply of the several

Counties within the State. The forests and forested lands of the State are an extremely important element of the total environment within which island residents and visitors work and play.

The basic functional organization of the Division includes four operating branches located in the four Land Divisions of the State. A central Nursery, located on the island of Hawaii, supplies tree seedlings for division planting programs as well as for forest developments on private lands. Three smaller units provide research and technical services, clerical and administrative support, and, in direct support of private forestry programs, cooperative forest management services. Each Forest District is headed by a District Forester who is responsible for planning and managing the forest programs within his district. Overall responsibility for the forest programs of the State is carried by the State Forester.

TIMBER RESOURCES

The Division of Forestry conducts an active long-range program for commercial timber production in the State. This program includes planting and development of suitable timber stands on State lands, as well as technical and professional assistance to private landowners interested in forest production.

Research and Planning

The Division supports a comprehensive research program to develop and expand a base of technical forest knowledge in Hawaii. This research is conducted cooperatively with the Institute of Pacific Islands Forestry, Pacific Southwest Forest and Range Experiment Station, which is a research unit of the Forest Service, U. S. Department of Agriculture. During the past year, nine research reports were published. A number of major investigations are in progress.

Trees of all sizes are dying at an epidemic rate in the *ohia* and *koa* forests of the Island of Hawaii. A preliminary investigation conducted jointly with scientists from the University of Hawaii reached the conclusion that the problem is widespread and serious. Planning has been initiated for intensive cooperative surveys and research to determine the extent and causes of this epidemic, together with the need for and possible means of control.

A study of marketing of Hawaiian forest products, which had been underway for several years was summarized in a 33 page report. The report concludes that Hawaii's forests provide a sufficient resource base from which to develop a diversified and expanded wood products manufacturing industry, and that local and U. S. mainland markets could support such an industry. Major problems in developing such an industry would be the ability of Hawaii's manufacturers to compete with other wood products manufacturers, and the parallel development of



House built almost wholly of Hawaii grown woods. —Exterior walls and floors of robusta and black butt, two species of introduced trees; cabinets, door surfaces, and interior paneling are from native koa. This model home competed in the 1970 Housing Fair and received good marks for both style and cost.

sustained tree planting and stand improvement programs.

A comprehensive picture of Hawaii's forest resources is vital knowledge to the personnel who manage these areas. To help collect needed information, the first Hawaii Forest Survey was initiated in 1957, which led to the report of 1961 currently used as a data base. A detailed inventory of planted forest lands followed the initial study. During the past year, the staff completed compilation of maps showing the location and nature of the planted forests. At present a survey is in progress to up-date and refine forest resources data for the State. Field work on the Island of Hawaii, the first to be resurveyed, is virtually complete. Resurvey of the entire State and publication of a comprehensive report should be completed in 1971.

Forest Protection

Extensive fire damage was experienced in forested areas during the year. Excellent relationships are maintained with government and private agencies and organizations, and

manpower and equipment was made available when needed. This cooperative effort must be credited with holding damage to not more than 50,000 acres.

Enforcement of the fire laws appears to be lagging behind the need. Greatly expanded use of forested areas for recreational requirements such as hiking and hunting, and carelessness and vandalism, have increased the danger of destructive fires within the forests. Trained specialists are needed to intensify fire prevention activities, and to gather evidence and conduct vigorous court action where necessary, to reduce destructive losses. There is a need to establish responsibility both for maliciously set fires and for those started carelessly by smokers, campers, fireworks users, and trash burners.

Fortunately, there were no fatalities during fire suppression and control activities. Overall timber losses were moderate in the past year, since most fires were started in drier areas, and were stopped before they entered the more heavily forested lands. However, the dry lands have other



This young koa plot at Waiakea, Hawaii illustrates how plots are being used to facilitate updating the State's inventory of forest resources. Painted bands indicate the location of diameter measurements, while tree numbers provide a quick reference for remeasurement.

values. They are grazed by domestic livestock, provide wildlife habitat, serve for honey production, support scarce endemic plant species, and offer many opportunities for outdoor recreation. These resource values, and fences and other ranching facilities were destroyed in fires. Many bee colonies were lost in the major Puu Analulu fire in the Waimea to Kona Hawaii area. A long-term negative value is the replacement of desirable vegetation by fountain grass which is coarse and unpalatable to cattle, and highly inflammable when mature. The intrusion of this plant cover into burned areas increases the difficulty of both prevention and suppression of future fires.

A new and unusually dangerous insect infestation was detected in a young six-acre stand of mixed pine located in the Waikii section of the Parker Ranch on the Island of Hawaii. This was the first reported discovery in the State of *Pineus pini*, a species of aphid of the *Adelgidae* group. Specimens were sent by the State Department of Agriculture entomologist to Dr. Monotori Inouye, Adegilid Specialist in Japan for positive identification. Ranch workers had first noticed the aphids in 1967-68, when they were confined to a single tree. Since that time they have spread to every *Pinus pinaster* tree in the area, and were also observed on both *P. taeda* and *P. patula* trees. This recent spread to less susceptible host species can probably be attributed to the enormous increase in population within the relatively small area of pine trees.

An attack was mounted against the aphid infestation through cooperative action of staff of the Division of Forestry, the Entomology Division of the State Department of Agriculture, and personnel of Parker Ranch. The infested area was sprayed twice at intervals of one week with a multiple effect chemical spray mixture containing both direct contact and systemic pesticides. A 95% kill was attained within a week of the second application. Follow-up control action will be continued as long as necessary to eliminate the pest or at least to prevent spread to other pine stands on the island. Investigation revealed that the aphid infestation was caused by individual insects that "hitch-hiked" in on "bonsai" pine plants brought to the Island of Hawaii from Honolulu, Oahu, for conditioning.

Damage is frequently caused in the forests by feral goats, sheep, and pigs, and by domestic cattle which enter the forest reserves through broken fences or open gates. In most areas, the feral animals are kept in check by hunters. Cattle must be removed by their owners when notified of the trespass by forest rangers. During the past year, twenty miles of old fence were inspected and repaired, and two miles of new fence constructed.

Forest Development

Tree planting in the forest reserve amounted to somewhat more than 1,500 acres during the year. Dry weather prevailed during much of the year, and reduced the planned program for planting a total of 2,000 acres. The excessively dry weather also resulted in more forest fires, and available manpower was diverted to fire suppression activities. Other manpower was utilized in forest pruning, weeding, and thinning operations, and stand improvement operations

were carried out on almost 1,000 acres of planted forest.

Promotion of forestry on private lands is an important element of the forest development program. This is accomplished through providing young tree seedlings to private planters at low cost from State forest nurseries, and also through providing technical advice and assistance to the landowners. A total of 275 thousand seedlings were distributed during fiscal 1970, of which approximately 90 thousand were destined for windbreak plantings. Norfolk Island pine was the "best seller" with almost half of the total distribution. It is favored both for windbreak plantings, and for Christmas tree plantings.

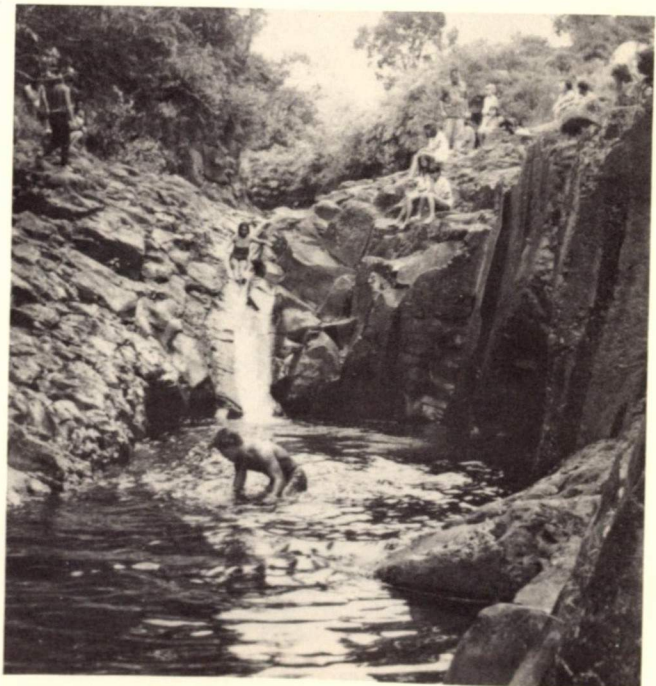
Technical assistance was provided for a total of 334 requests involving 33,000 acres of land. Inquiries covered a wide range of subjects including establishment of windbreaks to protect farm crops, reforestation of burned over lands, estimation of volume of timber on forested tracts, propagation of Christmas trees, effective logging practices, and assistance in planning timber sales. Two service foresters have been assigned to work full time in this field as a result of the growing demand for forestry information and assistance.

Technical assistance is provided also to wood manufacturers and wood products users, chiefly through investigations of wood properties, and marketing of wood products.

RECREATION

Advent and growth of a healthy economic condition in Hawaii, contributing to increased leisure time and money available for recreation, has greatly increased demand from the public for recreational facilities and opportunity.

The Department of Land and Natural Resources is deeply involved in a number of significant programs intended to provide the public, both resident and visitor,



Young people playing in a water slide and pool.



Wildland trail and shelter.

with unique opportunities for diversified outdoor recreation within the State. These programs provide direct opportunity for active participation by the people in recreational activities, and in addition, involve major efforts to develop, enhance, and preserve parklands, forests, natural habitats, fish and wildlife, and wilderness open space for the present and future enjoyment of the people.

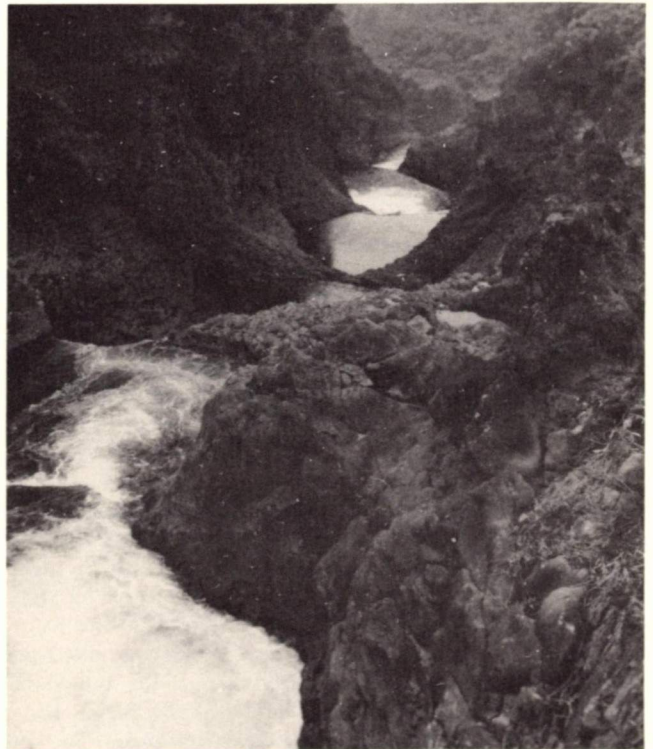
The Division of State Parks, Outdoor Recreation, and Historic Sites; and the Divisions of Forestry and Fish and Game, all conduct active programs for development, maintenance and protection of various aspects of natural habitats and natural features, and for recreational and cultural programs directed towards enjoyment of these unique natural resources. These three operating divisions generally utilize similar land resource areas of the State lands, and in some cases the programs tend to overlap and perhaps create duplication of services to the public.

The several County governments also maintain active programs for outdoor parks and recreation, although generally at a different level and scope than those of the State. There is however a considerable degree of overlap and duplication between State and County parks programs, particularly in beach parks, that causes some confusion in the public mind. The Federal government, principally through the ongoing programs of the Bureau of Outdoor Recreation and the Department of Housing and Urban Development, provides a great deal of technical and financial assistance to the recreational and open space programs of both the State and the Counties. This Federal assistance, which in 1970 amounted to a grant of approximately \$1,200,000 of which fifty percent was made available to the State government, is utilized primarily for development planning and for acquisition of lands required for long-range open space and recreational programs.

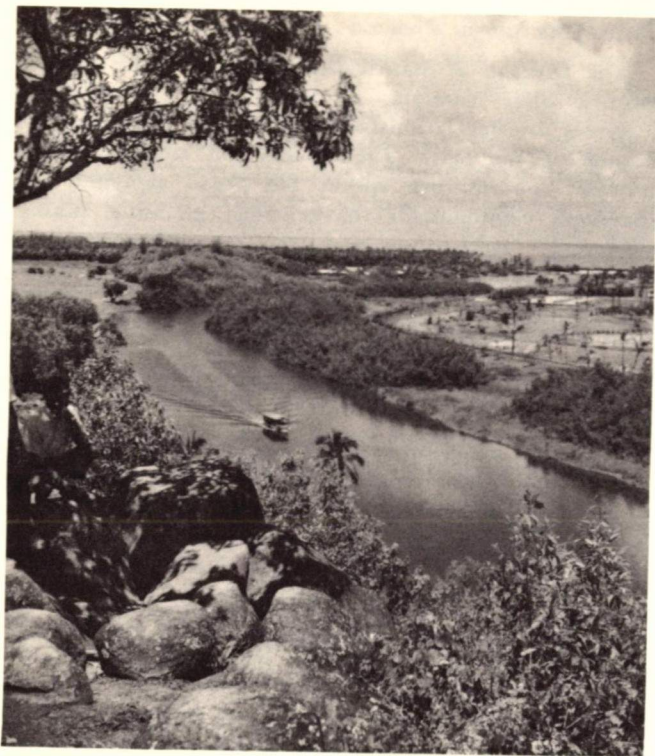
State Parks

The Division of State Parks, Outdoor Recreation, and Historic Sites maintains a total of thirty State parks, waysides, and recreational areas on the six major occupied islands of the State. These parks and recreation areas provide opportunities within the ocean shoreline and mountain environments for camping, picnicing, hiking, swimming, nature study, and other recreational activities suited to the specific resource areas involved. More passive recreational experience is offered at the eleven existing Historic Monuments, such as Iolani Palace, Hulihee Palace, and the Royal Mausoleum, which provide historical, cultural, and aesthetic enjoyment to local residents and tourist visitors alike.

Estimates based on periodic sampling techniques, indicate a total visitor usage of the State parks and historic places of approximately 1.9 million during the past fiscal year. The data suggest that an individual may visit more than one unit, and thus be counted several times. As yet, the sampling technique does not show the length of time spent within the park during a visit, nor the activities and quality of experience enjoyed by the visitor. However, the visitor count continues the strong upward trend in parks usage shown for the past several years. Increased usage of parks and recreational facilities is attributed, in part, to the increased leisure time and money available to the affluent society of today, and in part, to the high standards of parks development and maintenance achieved by the Division. The demands for park space and facilities is expected to continue to expand within the foreseeable future.



The Boiling Pot is a unique feature of the streambed where the Wailuku River flows over old lava strata in the Wailuku River State Park which is now being developed near Hilo, Hawaii.



A tour boat forms a distant wake in the serene Wailua River enroute to the Fern Grotto in Wailua River State Park on the island of Kauai.

Parks Planning

Division staff are expending considerable effort to create a State parks system; utilizing a systems approach to the planning, development, and operations of parks and historic places. Acquisition and development of new parks, and expansion of existing parks and recreation areas, would be directly related to the real needs of the public, both resident and visitor, for outdoor recreation and for historic and cultural experiences.

Master plans have been completed for further land acquisition and improvement of Wailua River Recreation Area in Hilo, Hawaii. This expansion project will cover major portions of the tsunami devastated portions of Hilo town. Planned developments for the expanded park have been coordinated with other government and private interests in the vicinity.

Master planning is in process for Hapuna Park on Hawaii, for Wailua River Park on Kauai, and for Kahana Valley Park on the Island of Oahu. Emphasis is being placed on determining the existing natural features of these park sites and on their inter-relationships, in keeping with the deep interest in ecology and environment being expressed at all levels in the State.

Planning, at various levels, is also being conducted for development of major park units throughout the State, including Waimanalo Beach Park (Sherwood Forest), Makua-Kaena Point Park, and Wahiawa Freshwater Park on the Island of Oahu; and for extensive improvements at Iao Valley Park on Maui and Akaka Falls Park on the Island of Hawaii.

Parks Development

A continuing program for park developments and improvements was carried on during the fiscal year. The development project at Kalopa State Recreation Area, Hawaii, was completed, including group camping and picnic facilities, hiking trails, and nature study areas. A comfort station, pavilion, utilities services, and road improvements were completed for Palaau State Park on the Island of Molokai. Improvements were completed at the Wailua River State Recreation Area in Hilo, Hawaii, including a new footbridge over Waiolama Canal, rain shelters, lighting, and paved walkways. Additional cabins, shelter units, and picnic facilities were completed or under construction at Mauna Kea State Park, Hawaii; Hapuna Beach Park, Hawaii; and, at Waianapanapa State Park and Waikeolu Wayside Park on the Island of Maui. Work crews were involved in continuing minor park improvements at Kokee Park, Polihale Beach Park, and Lydgate area of the Wailua River State Park on the Island of Kauai.

A major contract was awarded, and construction was in progress for development of a twenty-acre beach park on Magic Island. Improvements will include grading and landscaping of the area, grassing of lawns, and development of utilities and comfort stations to serve the public.

Parks Operations

The greatly expanded level of visitations to State parks and historic places has similarly increased the volume and complexity of the administrative and work effort necessary to manage and maintain these facilities. Staff of the Division are continuing to develop and utilize realistic performance standards for operations and maintenance of the park areas under their control. There have been noticeable improvements in the condition of parks and historic places, and in visitor satisfaction during the past year. A total of 49 permanent employees make up the Parks Maintenance Branch. This group is supplemented during the school vacations by approximately 100 student employees, who are utilized principally on parks maintenance tasks.

The overall workload of the maintenance force has been substantially increased during the past year by public demand for cleanliness and sanitation on State lands not specifically designated as State Parks. A program adjustment, to add a State land and shoreline maintenance unit to the regular maintenance force, is being given serious consideration.

Increased parks usage has clearly demonstrated the need for protection of the natural features and man-made facilities in these areas from carelessness and vandalism. Twenty-five supervisory employees of the State Parks Division have been commissioned as State Parks Enforcement Officers, with full police powers to arrest or cite offenders. This action has significantly reduced the incidence of violations within the parks system, particularly rowdiness and destructive vandalism.

Forest Recreation

The forests and forest reserves of the State offer broad

opportunities for outdoor recreation, and the Division of Forestry encourages this use in many ways. There are 300 miles of forest roads and 368 miles of forest trails to enter and travel through the reserve areas, that provide tremendous opportunities for active hikers and wilderness campers. These roads and trails are maintained and repaired to keep them in usable condition for forest patrol and for fire control, which also serves the public. Signs are placed and maintained for guidance of hikers, and maps and pamphlets are provided. The Forestry Division, while more directly concerned with the development and protection of forests, also provide trail shelters, water points, and vista points for the convenience and enjoyment of the hikers.

Forestry personnel cooperate in numerous rescue missions when hikers and other individuals find themselves in difficulty, or are lost and injured. No count is maintained of people entering the forest reserves for hiking, camping, hunting, and other recreational activities, but it is believed that they number into the thousands each year.

Fish and Wildlife

The Division of Fish and Game carries on a number of

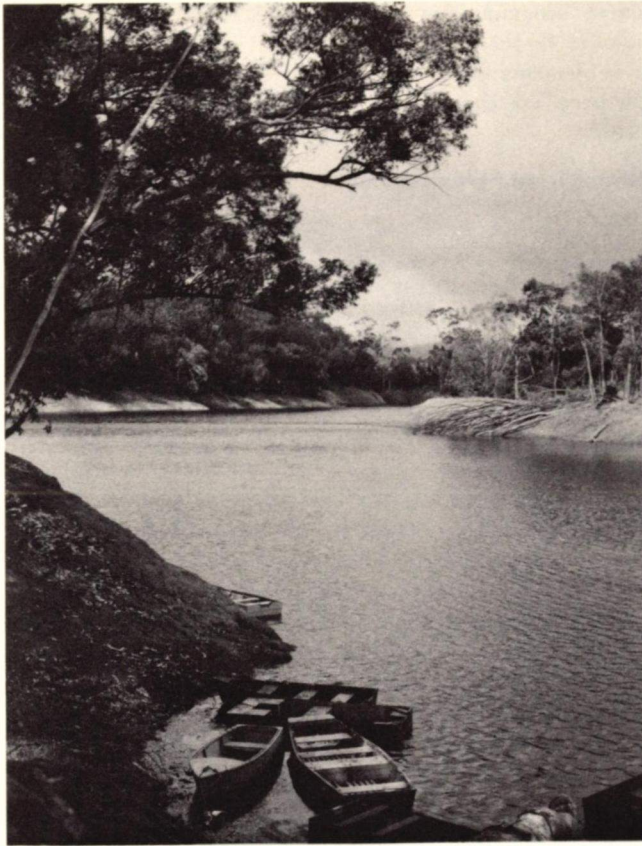
active programs for recreation relating to the fish and wildlife resources of the State. These programs are important elements in the overall outdoor recreation patterns of the people of Hawaii.

Recreational Fishing Survey

The people of the Island of Oahu spent about \$11,611,000 for recreational fishing during the year 1968, and of this, \$4,340,000 was expended for transportation, \$2,033,000 for food and drinks, and \$5,238,000 for fishing equipment and supplies. These are the findings of a study conducted by the Department of Agricultural Economics of the University of Hawaii under the terms of a contract with this Department. The study further suggested that by 1975, the expenditure for sport fishing on Oahu may rise to an annual total of \$17,329,000. It was also determined, through the study, that about one of every six persons on Oahu is a fisherman who spends an average of 32 days of the year fishing, at an average cost of \$105.36 per year. Since we are surrounded by the sea, it is not surprising to find that 76% of all fishermen fish principally in the ocean along the shoreline.



A typical cabin facility available at Kalopa State Park on the island of Hawaii. Picnic facilities are also available in this beautiful forested area.



A portion of Wilson Lake at Wahiawa, Oahu, which is being incorporated into the Wahiawa Freshwater State Park.

Legislation

House Resolution No. 303, adopted in the 1970 Session, requests the Department of Land and Natural Resources to investigate and study the feasibility of establishing a trout hatchery and farm at the Kokee State Park on the Island of Kauai. The Kokee Public Fishing area, comprising 15 miles of fishable streams and ditches and a fifteen acre reservoir, is stocked annually with approximately 80,000 rainbow trout fingerlings, which sustains a two-month sport fishery during August and September of each year.

Public Fishing Areas

Fishing at the Kokee PFA, on Kauai, was poor for the 1969 season. Although normal stocking of the stream was carried out, a total of 465 fisherman trips resulted in the taking of only 451 trout.

Creel census and fisherman interview data collected during calendar year 1969 indicate continuing heavy usage of the Wahiawa PFA by the fishing public. Gross estimates show that some 12,852 fisherman trips were made to this popular facility during the year and that approximately 34,000 hours were expended in recreational fishing. The estimated catch of catfish, bass, and tucunare was in excess of 18,000 fish weighing a total of more than 15,000 pounds.

Trial periods of open public fishing were arranged in cooperation with the Honolulu Board of Water Supply in

the Nuuanu Board of Water Supply Reservoir No. 4. This represented a novel venture, since the reservoir is located within an area zoned as a restricted watershed, which is not normally open to public entry. Control and precautionary measures were established to preclude any detrimental effects on the watershed. Public response to this fishing opportunity was enthusiastic, and during the three two and three-day open seasons, 904 fishermen caught a total of 1,240 fish, mostly catfish. There was no apparent detrimental effect to the reservoir or the watershed area. The number of fishermen was controlled by a public drawing for fishing permits and fishing dates.

Public Hunting Areas

Public hunting is controlled through regulations of the Board of Land and Natural Resources on approximately one million acres of game producing land on all of the major islands of the State. These lands include State-owned forest lands, private lands on which the hunting rights were secured through cooperative agreements with the owner, and lands owned or controlled by other governmental agencies on which hunting is controlled by the Board through agreements with the controlling agencies. Included in this total acreage are 18 areas consisting of some 509,000 acres, which have been designated game management areas because of their outstanding game producing capabilities and which are more intensively developed and managed than are undesignated areas. Hunting on these game management areas is closely controlled, allowing the collection of reliable hunting statistics.

The big game harvest, reported on the public hunting areas, increased by 8% over the previous year, despite the



Some happy fishermen participants in the first trial opening of the Nuuanu Board of Water Supply Reservoir No. 4 to public fishing. Fourth of July weekend, 1969.



A happy little boy with a channel catfish he just landed during the first trial opening of the Nuuanu Board of Water Supply Reservoir No. 4 to public fishing. Fourth of July weekend, 1969.

postponement of the Spring Molokai Axis Deer season. The increase is due to the two special Axis Deer control seasons held in addition to the regular hunt on Lanai, and the high success rate experienced by feral sheep hunters on the Island of Hawaii. Hunters made 2,915 trips to the Mauna Kea Game Management area, and took 1,394 feral sheep, goats and pigs. On Lanai, 1,372 hunters took 687 Axis Deer during the annual 7 day season.

A public hunting season for blacktail deer on Kauai was held for the first time since the initial release of this game species in 1961. As hunter demand was expected to exceed the supply of surplus bucks, a public drawing was held to select hunters for the season, which extended for three consecutive weekends in October. Seventy-six hunters participated in the hunting, and harvested 11 male deer. The relatively low hunter success can be attributed to unfamiliarity with the habits of this species, and the dense forest cover in which the blacktail is found.

Dry weather conditions, during the critical spring months, resulted in poor game bird production and a low hunter take of most species. Only the black francolin on Molokai and the Lace-necked and Barred doves on Oahu seemed unaffected by the drought and provided excellent hunting for sportsmen.

1969 proved to be a record year for dove hunters at the Barbers Point hunting area on Oahu. Through cooperation of the administrators of the James Campbell Estate, this area was opened to the public for hunting for the fourth year in a row. Hunters made 2,320 trips to the area, and

harvested a total of 11,319 Lace-necked and Barred doves—more than double the number taken during the 1968-69 season. The increased number of shooting stations provided the sportsmen may have contributed to the excellent season.

An active program for improvement of game management areas was continued during the year. Game and bird watering units were established in the Puu Ka Pele and Kekaha areas of Kauai. An experimental lantana eradication program was established in the Kekaha area in cooperation with UH Hawaii Agricultural Experiment Station. Following eradication, suitable game bird food plants will be planted. Approximately 200 acres of dense naio thicket was partially cleared by strip bulldozing in the Kaohe Game Management Area on the Island of Hawaii. This will create conditions more conducive to vigorous growth of seed producing plants, and will also allow hunters access to the area. Mamani seedlings were planted to improve the habitat.

Staff of the Division continued operation of hunter checking stations to gather hunter activity information and game kill statistics, as well as biological information of interest from game units. Posting of boundary, safety-zone, and informational signs in hunting areas continued throughout the year. In a continuing program to measure the effects of feral animals and the blacktail deer on the range on the Island of Kauai, two 5,400 square foot exclosures were erected on Polihale Ridge, and two 1,800 square foot exclosures constructed at Nualolo on the Na Pali Coast and at Waialae Falls in Waimea Canyon. Construction of fences to enclose a public right-of-way, through the Wailua Game Management Area, was commenced during the fiscal year to assure hunter access to the adjacent forest areas.

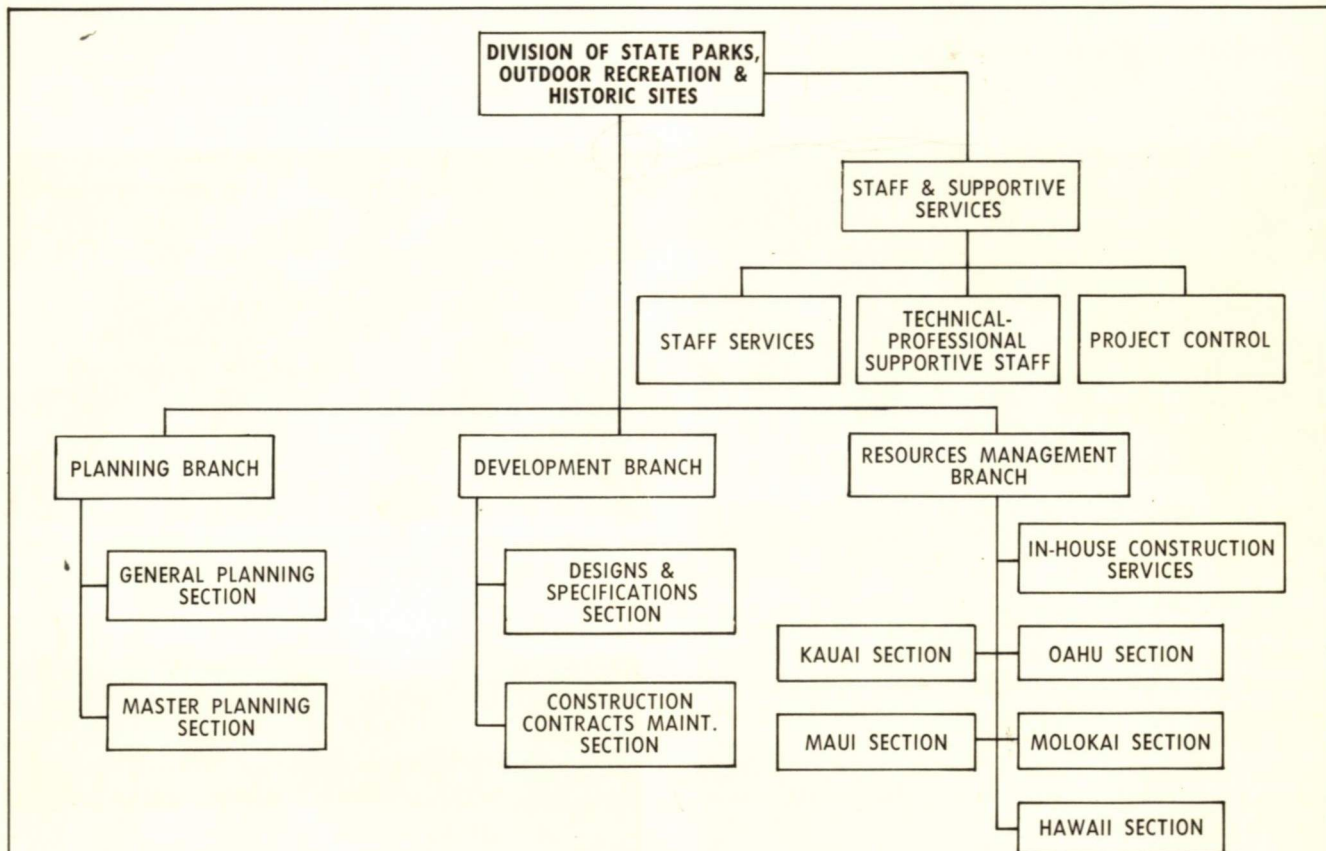


Wildlife biologist weighs Blacktail deer taken by hunter during first hunting season held on the island of Kauai in October. Information gathered at the hunter checking station revealed that the deer are entirely free of disease and in excellent physical condition.

Division of State Parks, Outdoor Recreation & Historic Sites

JOSEPH M. SOUZA, Jr., State Parks Administrator

ORGANIZATION CHART — OUTDOOR RECREATION & HISTORIC SITES



6/30/70

The Division of State Parks, Outdoor Recreation and Historic Sites is one of the major agencies within the State working toward the goal of providing outdoor recreation opportunities and cultural enrichment to the public, both resident and visitor. The Division is deeply concerned with preservation and protection of cultural and historic sites and facilities, and with the present and future utilization of the most outstanding scenic and recreational resources owned and controlled by the State.

The responsibilities and functions of the Division are defined generally within Chapters 6 and 184 of Hawaii Revised Statutes. Chapter 6 authorizes the Department of Land and Natural Resources, in cooperation with the Department of Planning and Economic Development, to establish a comprehensive program for historic preservation, restoration, and presentation. The Division, under the general supervision of the Chairman, is within this area of responsibility, further authorized to develop a state-wide survey of historic areas, buildings and sites together with plans for preservation and protection; to acquire and restore historic areas, buildings, and sites significant to Hawaii's past; to maintain a register of such areas; and, to establish regulations on the uses of such areas.

Chapter 184 defines the authority of the Department for development and operation of a system of State Parks throughout the State. Particular emphasis is placed on the setting aside of State lands and the acquisition of private lands for this system, and on the preservation of the parks and parkways in their natural condition in-so-far as may be consistent with their use and safety.

The Division, subject to the general direction and guidance of the Chairman, conducts two general programs within the provisions of the Statutes. The Recreation program relates primarily to the planning, development, operation, and protection of State parks and parkways. The Preservation program is concerned more directly with the investigation, restoration and preservation, interpretation, and protection of cultural and historic resources of all types. There is no very fine line of division between the two programs, since development and operation of parks includes the necessity of preserving the scenic and other resources which justify the park in the first instance. Similarly, discovery and restoration of cultural and historic sites and buildings provides unique opportunities to provide recreational and educational programs for the enjoyment of significant elements of the public.

The Division is functionally organized into three operating branches; for Planning, Development, and for Resources Management. In addition there is a Staff and Supportive Services unit which undertakes supportive activities for all the operating units. These functional units exert their efforts into both the Recreational and Preservation programs as required by the needs of the programs.



Huilua Fishpond, a registered natural historical landmark at Kahana Valley on the island of Oahu. According to tradition, this picturesque fishpond was built by the menehunes, a prehistoric and perhaps mythological people of old Hawaii.

PRESERVATION

The general public, partially through recent activities of the scientific and academic communities, has become increasingly aware and increasingly more vocal regarding the deterioration of the environment in which we live. Special groups within the public and private sectors of the community are also becoming increasingly aware of the inter-relationships between the historic and cultural past of Hawaii and our present and future developments in the State.

The growing involvement of the public and of these special interest groups in the historic, cultural, and environmental problems of the State provide ever stronger guidelines to a number of the on-going programs of the Department dealing with the protection, utilization, and preservation of the natural and man-made features and resources in the State.

Historic Places

The Division of State Parks, Outdoor Recreation, and Historic Sites is rapidly expanding and intensifying an ongoing program for protection and preservation of historic, cultural, and scientific places throughout the State.

The Division currently maintains a total of eleven Historic Monuments, including such relics of the Hawaiian Monarchy as Iolani Palace and the Royal Mausoleum on the Island of Oahu, and Hulihee Palace on the Island of Hawaii. A number of ancient Hawaiian Heiaus, or religious centers, are included in this program, as are the State Capitol and Washington Place which is the official residence of the Governor of Hawaii.

Major efforts and activities are being directed towards development of a plan for preservation, interpretation, and management of Iolani Palace and Barracks as a museum of the Monarchy. Preliminary plans have been completed, and contract negotiations are in progress between the Depart-



Hulihee Palace in Kailua Kona, Hawaii, was the summer palace of King Kalakaua. It is now preserved as an important Historic Place of the Hawaiian Monarchy.



A State Parks caretaker spreading soil and mowing lawns at the State Capitol grounds.

ment and the Friends of Iolani Palace, an organization with a deep interest in the project. Under terms of the contract, the Friends of Iolani Palace will be responsible for preparation of plans for complete restoration of the Palace, and subsequently for the actual restoration operations, subject at all times to the specific prior approval of the Board of Land and Natural Resources for each phase of restoration. Completion of the partially restored Iolani Barracks, and development of the Barracks as a part of the museum, is included in the restoration contract.

The Hawaii Register of Historic Places was created as the vehicle through which the Statewide inventory of known and previously recorded historic sites and places would be accomplished. A preliminary framework study was completed late in 1969, and a competent archeologist was employed in January 1970 to implement the plan. Actual field survey work was commenced on the Island of Oahu in April 1970 following several months of preliminary planning and program design. Approximately half of the known archeological sites on Oahu were surveyed by a two-man archeological team by the end of the fiscal year.

Division archeologists conducted salvage archeology in several areas under contracts with the State Department of Transportation, to ensure that archeological values were preserved or researched, where seriously threatened by proposed public works projects. Sites included in this work included the Ke-ahole Airport, the Kawaihae-Kailua Highway Corridor, and Puukohola heiau on the Island of Hawaii; Waianapanapa State Park on the Island of Maui; and at Kaena Point and the Halawa Highway Interchange on the Island of Oahu.

Research contracts were awarded to the University of Hawaii for the 1969 and 1970 summer Lapakahi archeological projects in North Kohala on the Island of Hawaii. The Lapakahi area is one of the most significant archeological areas in the State, and is destined ultimately to be developed as a major State Park on the island.

Several issues of the Hawaii State Archeological Journal were published and distributed under the auspices of the Division.

Natural Areas

As long ago as 1951, the Division of Forestry was instrumental in the establishment of a sanctuary on the Island of Hawaii for *Koai'a*, a small native tree that occurs only in certain arid areas together with several associated trees and shrubs. From time to time the Division has designated other specific forested and land areas for special protection of the natural habitat. Generally these actions have been informal, although in 1963 the Division of Forestry collaborated with the Division of Fish and Game to plan and gain recognition through Departmental Regulation for the Alakai Wilderness Preserve on the Island of Kauai, which supports rare endemic plants and birds.



Breathtaking Akaka Falls is a scenic highlight in Akaka Falls State Park at Honomu, Hawaii.

Recognizing the growing need for additional designation of special and unique areas for scientific and educational purposes, the Department, through the Divisions of Forestry and Fish and Game, has surveyed and temporarily designated a number of areas on all the major islands as potential "natural areas" or bird habitats. These areas will be subjected to further examination under provisions of ACT 139 of the 1970 Legislature, which authorizes the Board of Land and Natural Resources, with the assistance of a Commission, to designate and set aside "natural and open space areas"



The Division of Forestry has a long history of protecting rare plants. This is a scene from the Koai'a Sanctuary which was established in 1951. It may contain the only living specimens of this species on Hawaii Island.

Kahoolawe Island

Feral goats and sheep have been causing extremely severe damage on the Island of Kahoolawe. This island, with a total area of 48 square miles, is the smallest of the eight main islands of the Hawaiian archipelago, and has been controlled by the U. S. Department of Defense since 1942, first under a sublease from the holder of a State grazing lease, and since 1953 under a Presidential Executive Order. The U. S. Navy uses the island for target practice by surface ships and aircraft. Because of the hazard caused by unexploded ordinance, the Navy does not allow civilians to land or to move about on the island to hunt the feral goats and sheep. The surrounding waters are closed to fishing during the actual periods of practice firing and bombing.

Efforts have been made from time to time to control the destructive population of animals, notably from 1912 to 1941, and again following World War II, but without lasting success. An inspection of portions of the island by Department staff in 1969 indicated that vegetation was severely damaged by browsing animals. Approximately a fourth of the island is completely denuded, and vegetation on the remainder shows signs of severe overgrazing. The U. S. Navy, with technical assistance of the Division of Fish and Game, has recently intensified its efforts for control of the animal population.

The Division of Forestry, in cooperation with the Navy in the revegetation program, is fencing six small experimental plots on the island in which vegetation may develop free from injury by grazing and browsing animals. In addition to the plants now present, other species including native Hawaiian plants that are adapted to dry windy habitats will be introduced to help determine the best means for rehabilitation of the island.

When the island is no longer required for military purposes, it will be valuable for outdoor recreation purposes. Looking forward to that time, it is indeed imperative that we conserve the island's soil resources by re-vegetation as quickly as possible.



Illegal fish trap "kahe" for the catching of oopu discovered in the Waimea River, island of Kauai.

Marine Life Conservation District—Underwater Parks

The Hanauma Bay Marine Life Conservation District, on the Island of Oahu, was further designated as an Underwater Park by the Board of Land and Natural Resources early in the year. Management and protection of this unique resource was placed within the Division of Fish and Game. Since its establishment as a Marine Life Conservation District, the complete protection given to both the living and non-living resources have resulted in a significant proliferation of the fish life within the bay, greatly increasing both scientific and aesthetic values. With the use of face mask and swim fins, thousands of individuals now enjoy the pleasure of viewing some fifty species of colorful fishes and marine life in their natural environment.

Kealakekua Bay, on the Island of Hawaii, was also designated by the Board as a Marine Life Conservation District during the year, and has been under survey in preparation for its designation as the State's second Underwater Park. The underwater view of the area near Cook's Monument in the shelter of Kaawaloa Cove is outstanding, and will not be easily forgotten by anyone fortunate enough to dive into its clear waters.



Scuba diver making a transect of portions of Kealakekua Bay on the island of Hawaii. This type of research is essential to planning of underwater parks and preserves.



Scuba diver examining and photographing unusual coral and fish species at Lapakahe Bay on the island of Hawaii.

Bird Species Preservation

The Hawaiian Nene Restoration Project was continued under a \$25,000 contract with the U. S. Bureau of Sport Fisheries and Wildlife. A total of 114 nene goslings were produced at the Pohakuloa Station, and fertility and hatchability were excellent. One hundred and ten of the young nene were released into the wild at the Keauhou Sanctuary on the Island of Hawaii. As with all released nene, individual color leg bands were attached before the birds were placed in the release pen. Fifty nene were received from the Wildfowl Trust in England, and were released on Maui, at Paliku in Haleakala Crater.

Several nests and broods were observed in the wild on Hawaii. Nests were also observed on Maui, and a brood of four young was seen. The number of nene observed at any one time reached a high point with 114 birds seen on the ground near the Saddle Road on Hawaii. This encouraging observation included birds whose bands showed that they had been released at the Keauhou and Kahuku Sanctuaries, as well as a large number of unbanded birds.

A total of 844 Nene have been released into the wild since commencement of the program in 1960, 242 on Maui, and 602 on Hawaii. This program of increasing the population of wild nene, which in 1949 numbered less than 50, is looked upon by conservationists as one of the world's outstanding examples of success in staging a comeback for an endangered species.

Sixty-four *koloa*, that were reared at Pohakuloa, were released in the Kohala Mountains on the Island of Hawaii.

This is part of a continuing program to re-establish this interesting endemic duck into the wild on the island of Hawaii where it was once native.

On December 1, 1969, a small flock of edible nest swiftlets, *Collocalia inexpectata bartachi*, was observed by wildlife biologists in North Halawa Valley on the Island of Oahu. This was the first recorded sighting of the swiftlets since January of 1965 when 200 of these attractive insect-eating birds were imported from Guam and released by the Division of Fish and Game at Waimea Falls on Oahu.

Division biologists met with U. S. Bureau of Sport Fisheries and Wildlife biologists to review and bring up to date, the data on Hawaiian species included in the Fish and Wildlife Service publication "Rare and Endangered Fish and Wildlife of the United States". Amendments were drafted to up-date the material on several Hawaiian species, and data sheets were prepared for six additional species to be included on the list. These are the Hawaiian bat, Hawaii akepa, Maui akepa, Oahu creeper, Molokai thrush, and the Hawaiian storm petrel.



The endangered Hawaiian Stilt (*Himantopus himantopus knudseni*), usually found in shallow water areas and mud flats, numbers only approximately 1,500 individuals in the State of Hawaii.

Wildlife Refuges and Sanctuaries

In December 1969, officials of the U. S. Fish and Wildlife Service, Washington, D.C., and the Department of Land and Natural Resources, together with representatives of private organizations, met in Honolulu to discuss the precarious position of many of Hawaii's native birds, and the means for preserving them. Habitat preservation was determined as being the key to the preservation of many of the species, particularly the waterbirds and the specialized forest dwelling species. A special task force of Federal and State wildlife biologists delineated critical habitat areas in the State necessary to assure the survival of rare and endangered water and shore birds and prepared a draft brochure on this subject for publication by the two agencies.

In accordance with an agreement entered into by the U. S. Navy, the Department of Land and Natural Resources, and the U. S. Bureau of Sportfishing and Wildlife, the

Navy set aside a twenty acre area in Pearl Harbor, important to the Hawaiian stilt, as a bird refuge.

A master plan for the development and management of the fish and wildlife resources at the Kaneohe Marine Corps Air Station, was completed under a cooperative agreement with the same agencies listed above. The plan designates important wildlife habitat areas for protection and enhancement. These refuge areas include important feeding and nesting areas for the Hawaiian stilt and the only nesting area on Oahu of the red footed booby.

A preliminary plan for the development of a wildlife refuge at Paiko Lagoon on Oahu was prepared. The plan calls for dredging shallow channels in the lagoon to improve movement of the water, and to decrease the existing odor. Dredged material will be placed to create small islands, which can be used for nesting sites by shore birds. The plan was circulated to a number of interested organizations and most comments were favorable.

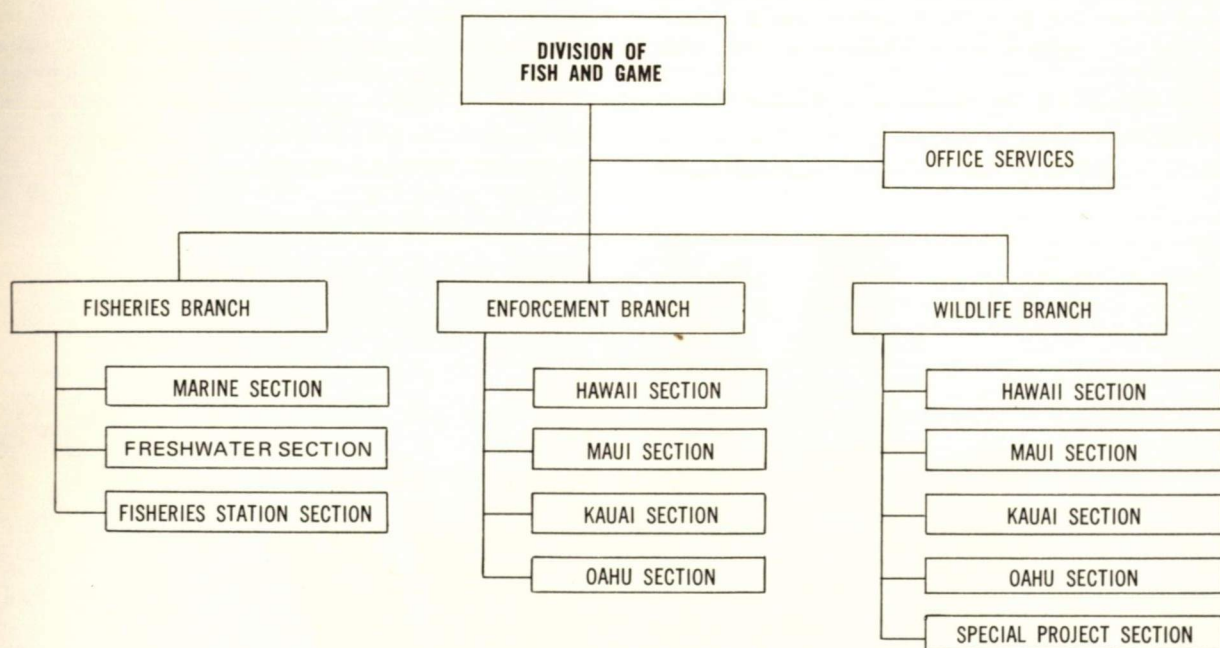


Research on smallboat harbors produced this dramatic scene. Fisheries' biologists studied the effect of such explosions on the underwater ecology of Kawaihae Bay.

Division of Fish and Game

MICHIO TAKATA, State Fish and Game Conservationist

ORGANIZATION CHART — DIVISION OF FISH AND GAME



6/30/70

The statutory authority for the Department to conduct programs dealing with fish and game rests generally within Chapter 187 of Hawaii Revised Statutes. Within the framework of policies and guidelines established by the Board of Land and Natural Resources, the Division of Fish and Game administers and conducts programs for the protection, development, management, and utilization of the fish and wildlife resources of the State.

Activities of the Division relating to fishing and fisheries are generally guided and controlled by the provisions of Chapters 187, 188, 189, 190, and by other related sections of the Statutes. The fisheries program of the division is concerned generally with the scientific husbandry of the State's freshwater and marine aquatic resources for both recreational and commercial purposes. Staff of the division are deeply involved in biological research to obtain information necessary to control of specific fisheries, and the enhancement of certain marine habitats through the creation of artificial reefs. Major efforts are expended in the introduction and establishment of desirable exotic species of freshwater and marine fish and other aquatic organisms. Other activities include the establishment of marine sanctuaries, creation and management of public fishing areas, and development and promotion of new commercial fisheries.

Wildlife activities, including both game and non-game species, are generally carried out within the provisions of Chapters 187, 191, and 192, as well as other minor sections of the Statutes. Major activities of the wildlife program include development, maintenance and management of public hunting areas throughout the State for game bird and mammal hunting; the management of game populations utilizing research findings to provide sportsmen with good hunting opportunities; improvement of game resources in the State by introduction and establishment of desirable game species; and, preservation of beneficial and aesthetically pleasing wildlife species.

The Division operates on all of the major islands of the State, and in addition, carries responsibility for control and protection of wildlife and; other protected species on the lesser islands such as French Frigate Shoals some 1200 miles west of Honolulu.

The Division is organized functionally into three major branches, and a small supportive office services group. The Fisheries Branch, which carries general responsibility for all of the research and management activities for both freshwater and marine areas, also conducts studies and investigations into development of new commercial fisheries. The Branch is further divided into three sections for Marine, Freshwater, and Research Station activities.

The Wildlife Section, which carries direct responsibility for management of the public hunting areas, and for introduction, distribution and management of game and non-game species of mammals and birds, has an active section within each of the Land Districts of the State. There is also a special projects section, which works more directly with introduction and establishment projects, and with specialized research projects.

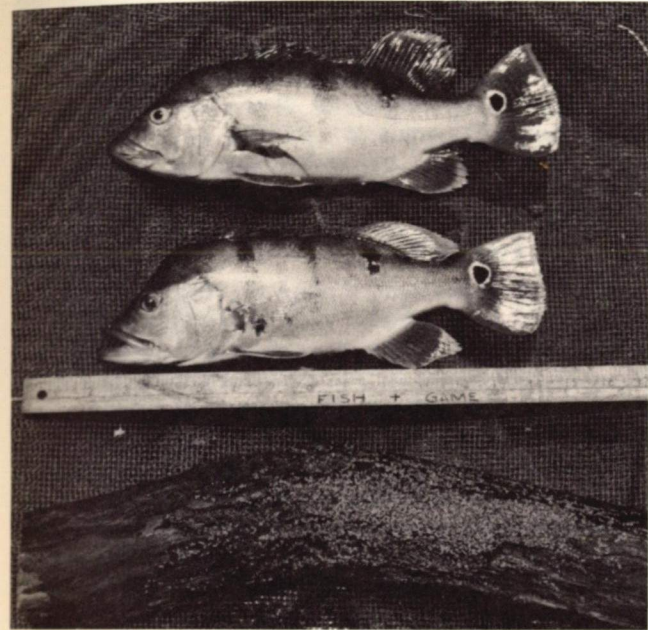
Enforcement of fish and game regulations, and protection of fish and game habitats is generally the responsibility of the Enforcement Branch, which maintains active sections throughout all major islands of the State. The wardens of this Branch work closely with District Foresters in protecting desirable habitat areas, and in addition provide support to the Fishery and Wildlife Branches in conduct of research projects and special management activities.



Rainbow trout fingerlings are loaded on the helicopter for delivery to streams in Kokee Public Fishing area on Kauai. Trout are lowered by rope from the hovering helicopter in galvanized containers. Helicopters are also used for fire spotting, fire fighting, forest inspections, and for taking game counts in the wild.

COMMERCIAL FISHERY

The Division of Fish and Game, under the general policy and direction of the Board and the Chairman, conducts a program of research and development for the improvement and enhancement of the commercial fishing industry of the State.



Excellent specimens of the tucunare taken in the Wahiawa Reservoir on Oahu. The male (lower) can be recognized by the prominent swelling on its "forehead" which is a secondary sexual characteristic which appears during the spawning season. Egg clusters are frequently placed on floating logs, as shown in the lower portion of the photograph.

Legislation

Three acts passed during the 1970 Session of the State Legislature will have significant effects on the overall fishery programs of the Department. ACT 92 provides \$50,000 for continuance of a shark control and research program administered by the Department through the Division. This sum is sufficient for the charter of a vessel to carry out a State-wide fishing program for a period of six months. Efforts are being made to obtain additional funds through cooperative agreements with the several County governments to continue the program for the full year. Reduction of the shark population within the State waters through this catch and kill program will assure increased safety for swimmers, fishermen, and other marine recreationists, and should also reduce shark damage to commercial fishing gear and nets.

ACT 93 appropriates the sum of \$62,500 for an investigation of baiting/seining methods for the Hawaiian skipjack (aku) fishery. Expenditure of the fund is dependent on provision of matching funds from the fishing industry. The Legislature also appropriated an additional sum of \$750,000 to the New Fishing Vessel Loan Program, which will supplement the first appropriation.

Fishery Management

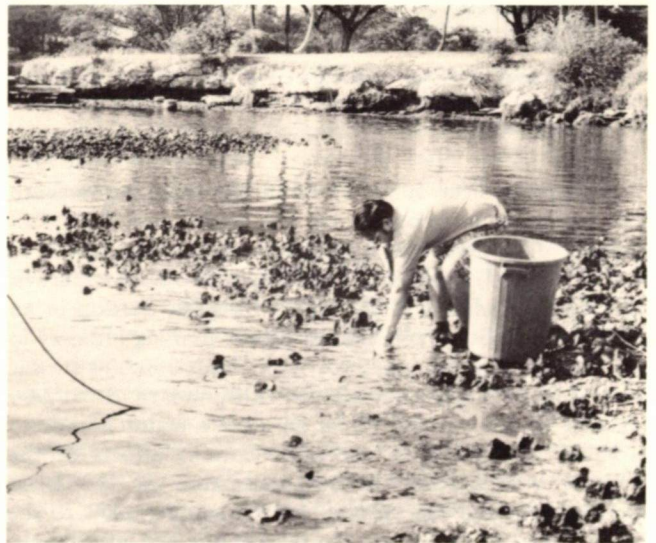
The Division conducts a program for collection and maintenance of commercial fish catch statistics; and for regulation of fish catch methods and closed seasons on certain species of commercially desirable fish and shellfish.

Fish catch data are collected from fishing vessels at the completion of each voyage. These data are tabulated and the results are published in monthly and annual reports of fish catch by species and point of landing. These reports are useful to the commercial fisherman and to researchers alike for determination of short and long-term fishery trends such as growth or reduction of fish populations, catch rates, and supply of various fish species to local market areas. Staff of the Division periodically inspect fish markets and commercial restaurants to determine compliance with fishing regulations relating to fishing methods and closed seasons.

Fishery Research

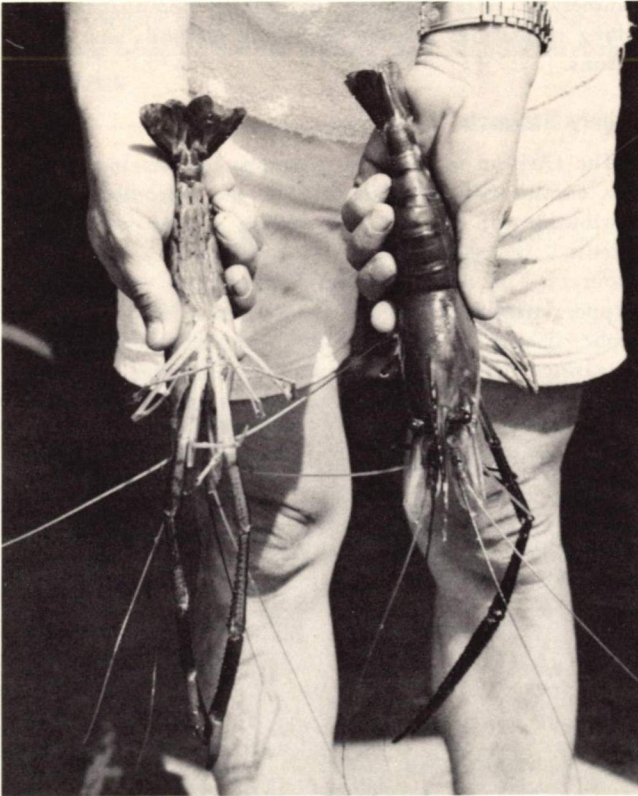
The Division is active in programs for development of new commercial fisheries, and in the introduction and distribution of aquatic and marine species which have potential for development as commercially exploitable resources. The taape, *Lutjanus kasmira*, for example, is a snapper introduced some years ago, and only opened for public fishing in 1966. It is being caught in rapidly increasing quantity by commercial fishermen, and sells readily on local markets. This is a welcome addition to the marine fishery resource of the State.

An experiment is in progress under an agreement with the operator of Molii Fishpond in Kaneohe Bay, Oahu, to test cultivation of oysters on a commercial scale. Monthly water samples indicate that the quality of the pond waters meets the approved standards for oyster culture, except for the winter months (December through February) when it is reduced to a conditional level due to heavy seasonal rains. Oyster growth and mortality studies have been encouraging, with approximately 57% of the seed oysters growing to marketable size in six months.



Collecting oyster seed stocks from beds exposed at low tide in Pearl Harbor's West Loch.

Approximately 5,000 pounds of adult and seed oysters were collected in Pearl Harbor West Loch, and sold to private fishpond operators as seed stock for commercial cultivation. Following seven months of culturing, the operator of Niaupala Fishpond on the Island of Molokai harvested and sold 190 pounds of marketable oysters produced from his initial seed stock. The oysters sold readily in the Honolulu market, and are reported to be superior to those imported regularly from the U.S. Mainland. A total of 660 pounds of live oysters from the Pearl Harbor beds was shipped to Suva, Fiji, in response to a request from the Fijian government who are attempting to establish the species there.



Malayan prawns used for breeding at the Fishery Station, Keehi, Oahu.

A major project of the Division has been the research and development program on the introduced Malaysian prawn, *Macrobrachium rosenbergi*, first introduced to Hawaii in 1964. Since then, more than two million prawns have been produced at the Keehi Fisheries Station in an effort to establish a commercial prawn farming industry in the State. During the past two years, about 300,000 prawns were stocked in pilot commercial fish ponds, and 250,000 released in streams and rivers on all the major islands to establish the species in the wild. Current efforts of the Division are directed towards reduction of the labor requirements and the costs of rearing larval prawns to the juvenile state in tanks prior to release into the farm ponds.

Test rearing of juvenile prawns to market size in pilot stage commercial ponds, indicates that a sustained yield of

up to 2,000 pounds per acre per year may be achieved. Test marketing of the prawns show that they are well received on the local market at a relatively high price.

The Department has negotiated an agreement with Bumble Bee Food Corporation to carry out, on a matching fund basis, the investigation authorized under ACT 93 into baiting/seining methods for the Hawaiian aku fishery. A purse seining vessel has been chartered from California, and field tests of baiting/purse seining methods for taking aku will commence shortly.

The commercial fishery research and development programs of the Department are closely coordinated with similar programs conducted by the U. S. Bureau of Commercial Fisheries, and with appropriate research programs of the University of Hawaii.

New Vessel Loan Program

The State government, through the New Fishing Vessel Construction Loan Program administered by the Division, provides substantial loans for construction of new and improved fishing vessels. The first unit constructed under this program, the M. V. Kilauea, a 79-foot steel-hulled longline vessel, joined the local fishing fleet in July 1969, and has since led the fleet with a total catch of 150,000 pounds of tuna and other oceanic fish in its first ten months of fishing operations. The recent addition of hydraulic drive line hauling gear on the Kilauea is a modern innovation which is expected to substantially increase the fishing capability of the vessel without an increase in manpower.

The overwhelming success of the Kilauea is encouraging other commercial fisherman to consider substantial investments in modern fishing vessels and gear. An additional sum of \$750,000 appropriated by the 1970 Legislature has further accelerated this planning. Continuing construction of new fishing vessels under the auspices of this loan program should eventually lead to complete modernization of Hawaii's deep sea fishing fleet, and assure the public of adequate supplies of fresh fish at reasonable prices.



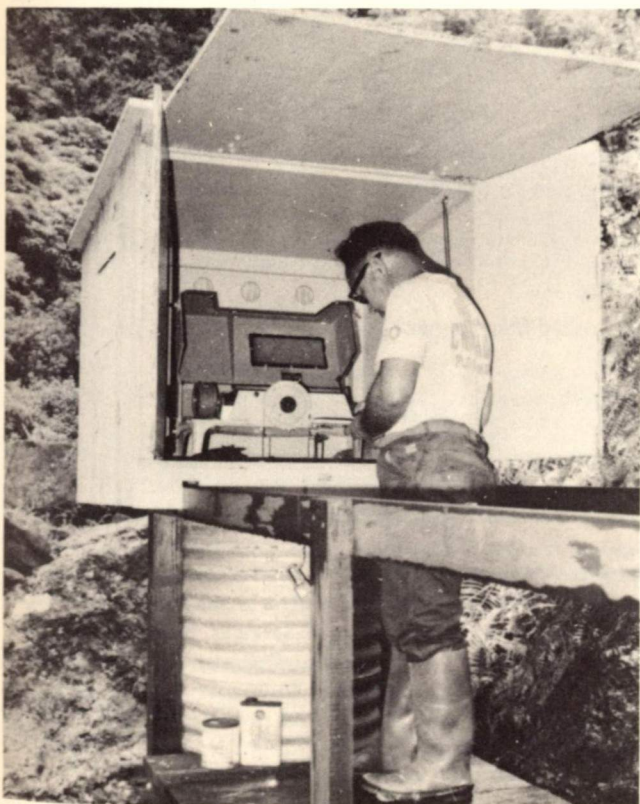
Fisheries' biologists determine the effects of underwater environment on fish species.

WATER

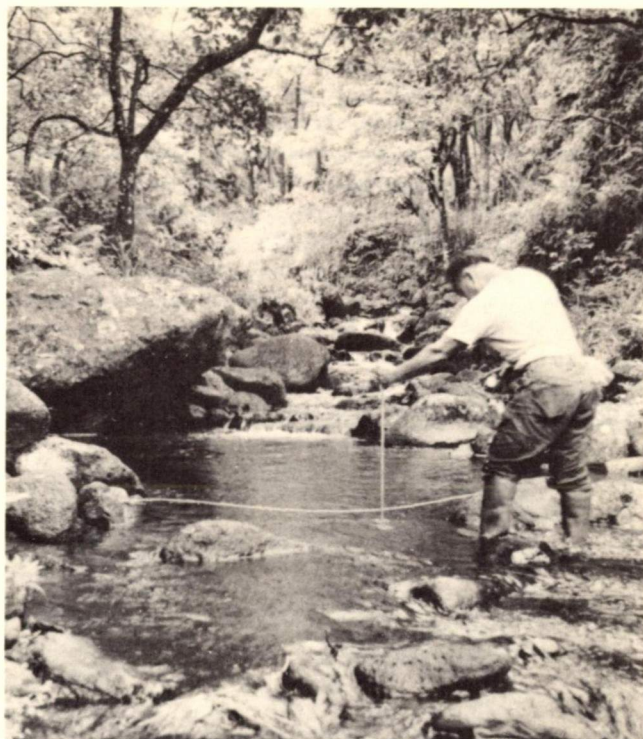
The major water programs of the Department are concerned essentially with the protection and augmentation of the basic resource, and with the primary development and production of this essential element of our complex modern society. Programs of water resource research and planning are closely coordinated with similar work carried on by agencies of the Federal government, and with water research activities of the University of Hawaii. Development of water sources and related transmission facilities are closely integrated with the water development and distribution programs of the various county governments. Similarly, Departmental programs for protection and enhancement of the major watershed areas are coordinated with water pollution and water quality control programs of other State agencies.

Water Supply Planning and Research

The Division of Water and Land Development during the past year placed major emphasis on preparation of the statewide Comprehensive Water Resources Planning Program. The State Legislature appropriated the sum of \$100,000 for this planning program and Federal matching grants were received from the Water Resources Council under Title III of the Water Resources Planning Act of 1965; and from the U. S. Geological Survey, the U. S. Corps of Engineers, and from the U. S. Soil Conservation Service for specific phases of the program.



Changing the charts on an automatic streamflow recorder located on Kapuhi Stream in Pelekuna Valley on the island of Molokai.



Measuring the streamflow in Kawailene Stream at the thousand foot level in Pelekuna Valley on the island of Molokai.

Planning efforts are being carried out on an island by island basis, and the Island of Hawaii is currently being evaluated. The investigation includes an inventory of all water and related land resources data. Guidelines are being formulated for future planning, research, development, and management of the total water resources of the island. Reconnaissance studies of a similar nature have been initiated on the Island of Maui, which has been selected as the second area within the State to be covered in this program.

Act 123 of the 1970 Legislature amended Chapter 178, Hawaii Revised Statutes, relating to artesian wells. The Act enables the Division to collect data from all types of wells in order to determine the potential of underground aquifers for withdrawal and storage of fresh water as well as determining the use of the underground aquifers for waste disposal.

The Division has placed considerable emphasis on evaluation of the existing climatological and water resource data collection networks, and with the assistance of the University of Hawaii Water Resources Research Center, on design of new data networks. A program for relocating old stations and establishing new stations, based on the information requirements of Federal, State, County, and private agencies, is continuing. The major elements of this continuously developing system include data on precipitation, streamflows, ground-water occurrence and availability, water use, and climate.

The U. S. Geological Survey, supported in part by State funds under terms of a cooperative agreement with the

Department, continued data collection on stream gaging and ground-water monitoring, and continued the related areal hydrologic investigations. During the period, the Geological Survey staff operated and maintained approximately 300 gaging stations. Information from this research is essential to all water resources planning efforts throughout the State. The Geological Survey will shortly publish the daily streamflow records in a report entitled, "Water Resources Data for Hawaii—1969".

The Geological Survey staff have also completed water reconnaissance investigations for Wailuku and the northeast districts of the Island of Maui. The results of this study, also carried out within the terms of the Federal/State cooperative agreement which covers the general water situation and water problems of the area, will be used to evaluate necessary data collection networks and in preparing the comprehensive water resources plan for the island. Detailed investigation of the areal hydrologic conditions of the Waianae area of the Island of Oahu were completed, and the results are being published by the U. S. Government Printing Office.

The Division, through the cooperation of the Hawaiian Sugar Planters Association and the U. S. Weather Bureau, is continuing to receive and maintain records of approximately 1000 weather gaging stations throughout the State. These basic weather records are essential for water resource planning, and also for flood plain planning and regulation. Periodic field inspections are carried out to assure the reliability of rainfall and other climatic records under this cooperative program.

The Division conducts an exploratory well drilling program to obtain subterranean hydrological and geologic information from selected areas within the State. This program provides direct information on ground water conditions by actual test drilling in potential ground water areas. Wells penetrating into high quality ground water sources may be further developed as producing wells to supply domestic needs. Two test well projects were in progress at the end of the fiscal year; at Naalehu, Hawaii, and at Kihei, Maui.

Research in the development and protection of the forested watersheds of the State, and into augmentation of water supplied from these areas, is conducted by the Division of Forestry in cooperation with the U. S. Forest Service. Major efforts were expended in investigations to enhance or augment the water yields from high mountain areas through injecting suitable chemical agents into low lying fog and clouds. Early results suggest that rainfall can be significantly increased by spraying such clouds with hexadecanol. Forest research also concentrates on development and maintenance of improved ground covers to increase infiltration into ground-water aquifers, and on improved methods for prevention and suppression of fire within forested areas.

Water Production

The Division of Land Management concluded the sale of a water license to Kekaha Sugar Company, Kauai, in connection with a lease of a large block of agricultural and

pasture lands. This license gives that company the right to take and use surface waters originating on State lands in the upland watershed areas. The specific land area covered within the water license is 6.25 acres, and the annual water rental is \$6,000. There is a total of fifteen water licenses currently in effect throughout the State, with a total of 14,330 acres of State lands directly involved in the licenses. Annual revenue to the State from these water rights is \$215,000. Water developed from these watershed areas is utilized primarily for irrigation of sugar cane.



Spraying young maritime pines to eradicate a new infestation of a very injurious species of aphid on Hawaii Island. Project conducted cooperatively by Division of Forestry with Hawaii Department of Agriculture, Entomology Branch, and Parker Ranch.

Watershed Management

The past fiscal year was a most disastrous year for forest fires throughout the State. The Division of Forestry recorded a total of 59 forest fires from all causes, which burned over an area in excess of 50,000 acres. It is believed that a number of these fires were deliberately set by arsonists. Both the incidence of fires, and the total damage caused by the fires were intensified by the extremely dry weather experienced in the forest areas. Fire prevention activities and fire suppression efforts were carried on with the cooperation of the Armed Services, the National Park Service, County Governments, Department of Civil Defense, and ranchers and sugar companies. Fire watch and early warning of fires was in part provided by airline pilots who act informally as fire lookouts during scheduled flights, and by FAA airport tower personnel.

Heavy use was made of airplanes and helicopters during active firefighting periods. Crop duster planes and military

helicopters used water and chemical agents to hit "hot spots" in fire areas with good effects. Light planes were very effective in fire spotting activities. Engine failure during one spotting flight caused an emergency landing on a county highway, fortunately without loss of life or serious damage to the airplane. Considerable fire fighting equipment was acquired during the period, especially "slip-on" units such as pumps and radios which can be quickly installed and removed from everyday work vehicles. A considerable amount of fire fighting equipment, including a number of vehicles, was obtained from Federal surplus sources through cooperative agreements with the U. S. Forest Service. This equipment was put to useful service during the fire fighting activities.

Fire damage to the forested watershed areas seriously affects the ability of these areas to conserve water. The basic infiltration capability of the soil may be adversely affected, thereby reducing the recharge to ground-water aquifers. There is often destruction of unique areas of native vegetation, as well as direct loss of the value of timber destroyed. Lands exposed by fire in areas of heavy rainfall are also subject to serious soil erosion. The Division carries on a continuing program to expand the public awareness of wildfires and the damage they cause to our environment. This program is directed principally to schools, service clubs, and to public media.

The State Fire Plan is in process of modification, in part due to increased public use of forested areas for recreation and the consequent increased danger from accidental fires. This is an integrated plan for prevention and control of wildfires in all areas of the State; defining areas of responsibility, providing guidelines for techniques and procedures, and maintaining an up-to-date inventory of available manpower and equipment for fire fighting.



Fire burning in an ohia forest on Hawaii Island. Total area burned by forest and range fires in F. Y. 1969-70 amounted to 51,000 acres for the State.

Cooperative Watershed Program

The Department, through the Divisions of Forestry and Water and Land Development, actively cooperates with the U. S. Forest Service and the Soil Conservation Service (USDA) in Federally sponsored watershed programs including watershed protection and flood prevention and control. In this respect the forestry and water resource data

programs strongly interact. The primary thrust of this inter-agency cooperative program is to reduce damage by floodwater and sediment, to maintain desirable conditions of streamflow, to protect water quality, and to maintain soil productivity. Projects now active or under consideration under provisions of Public Law 566, are the Kahaluu Watershed on the Island of Oahu and Honolua Watershed on Maui, which include forestry land treatment for 18,700 acres of forested lands within these watersheds. In connection with these programs, the Division of Forestry carried out tree planting on 1559 acres in the forest reserve areas.



The ohia forest in the foreground is rapidly declining. It is not known if tree death is progressing mauka into the healthy ohia forest, or what will happen if it reaches the highest band of forest in the photo which is koa. This tract is situated on the slope of Mauna Kea.

Water Development

The Division of Water and Land Development was involved in a total of thirty water development projects during the fiscal year. The major project completed was the \$2.4 million Kualapuu Reservoir on the Island of Molokai. This reservoir, which serves the Molokai Irrigation System, has a capacity of 1,400 million gallons, and is the largest butyl-rubber lined reservoir in the world.

In Kona on the Island of Hawaii, the water transmission main to the new Ke-ahole Airport was completed in May 1970, well ahead of the completion of the airport. The main Kona transmission pipeline was extended to Hookena School in the south. The successful development of an additional well in the Kahaluu area has increased the capacity of the Kona water system.

Construction of a 50-million gallon concrete-lined reservoir is nearing completion in the Kohala Mountains on the Island of Hawaii. This reservoir will increase the domestic water supply of the Waimea-Lalamilo system to two million gallons per day.

On the Island of Kauai, pipelines and pumps are being installed in the Hanapepe and the Waimea-Kekaha water system to provide water service for residential developments in those areas. A new well was drilled in the "Sleeping Giant" mountain in Wailua, to supply additional water to the system to meet the rapidly expanding demands of old and new residents. In addition, a contract was awarded near the end of the year for construction of a

twelve inch pipeline along Kuhio Highway at the State's Wailua River Resort development in Lydgate Park. This improvement will significantly improve the water service to the area.

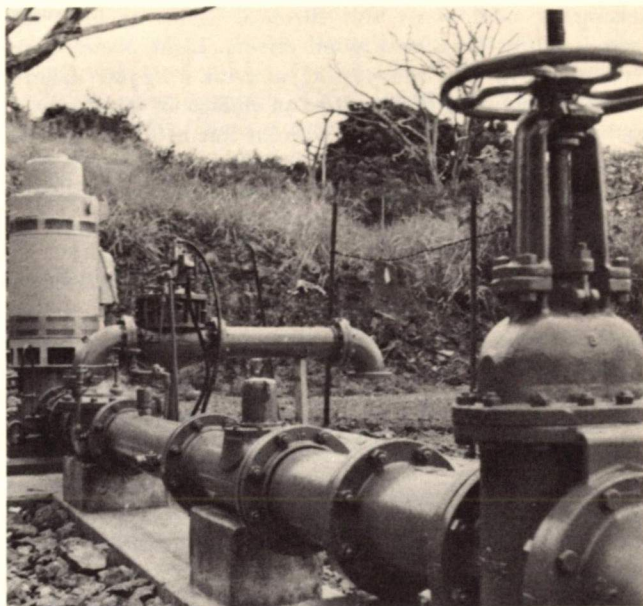
Irrigation Systems

The Division of Water and Land Development manages three irrigation systems: at Waimanalo, Oahu; at Hoolehua, Molokai; and, at Lalamilo, Hawaii. All systems service agricultural production units primarily on State lands.

Waimanalo Irrigation System serves ninety-five diversified farmers operating on a total of 921 acres of land. Agricultural enterprises include poultry and egg production, truck farming, flower production, and orchard crops. The University of Hawaii maintains an Agricultural Experiment Station within the area served with irrigation water. Water consumption for the year exceeded 128 million gallons.

Molokai Irrigation System serves 6741 acres of pineapple lands and 106 acres of diversified crops. Supplemental irrigation was provided during the early fall and winter for 155 acres of seed corn. Water sales almost doubled over the previous year to a total of 496 million gallons, due in part to the completion of Kualapuu Reservoir, which substantially improves the capability of the system to meet the year around needs of the agricultural community. Thirty-three Hawaiian Homesteaders are in the system, and water demand from this group is growing rapidly. The Dole Corporation recently acquired the Libby McNeil & Libby Company holdings on Molokai, and are negotiating for irrigation service to these lands.

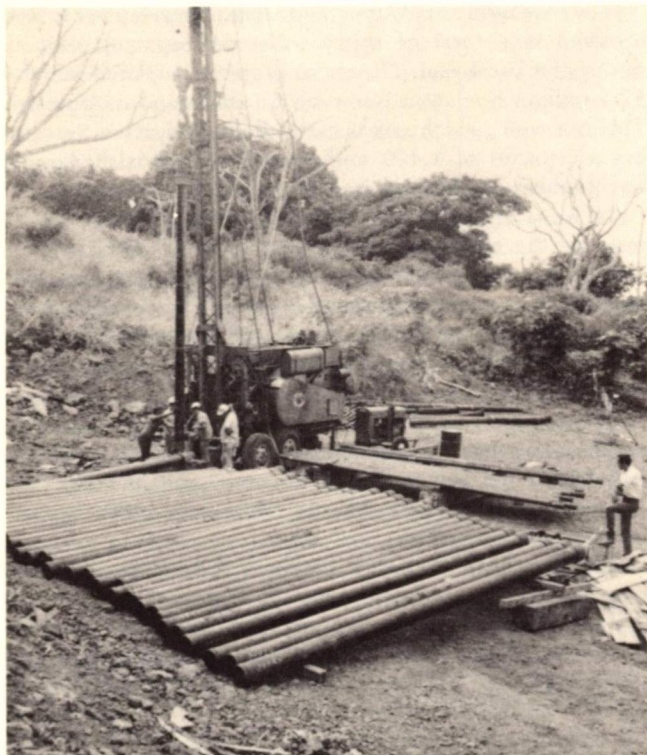
Lalamilo Irrigation System serves twenty-six farmers, who farm a total of 205 acres of diversified crops,



The deepwell pump and surface delivery piping at the Kahaluu Well in Kona, Hawaii.



Aerial view of Kualapuu Reservoir on the island of Molokai.



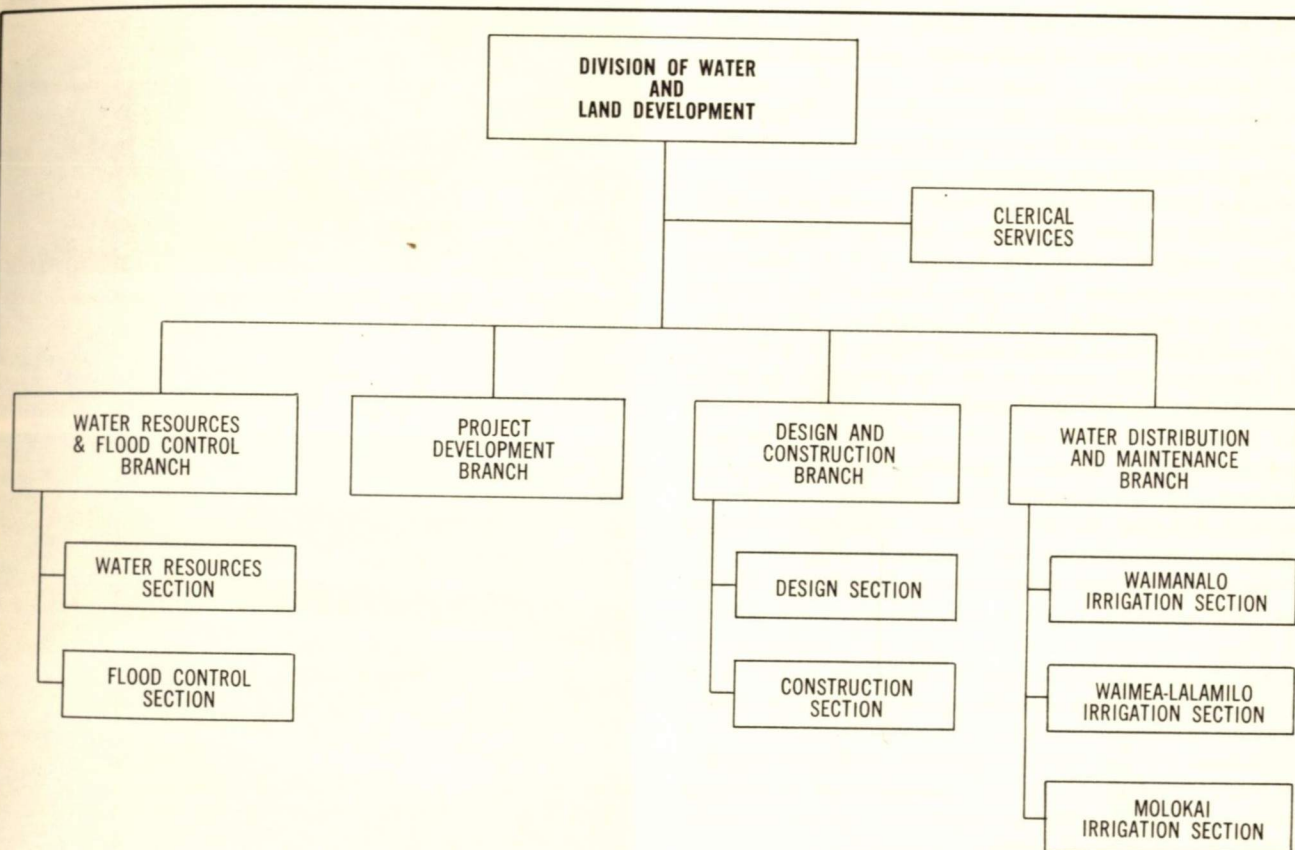
Contractor setting well casing at Kahaluu Well in Kona, Hawaii.

principally truck crops. The Waimea-Lalamilo area of Hawaii was subjected to persistent drought conditions during much of the year, and crop production which has steadily increased over the past several years was more than ever dependent on adequate water supplies and improved irrigation practices. Extensive trials are being conducted by farmers and the Hawaii Agricultural Experiment Station on melons and on greenhouse culture of tomatoes, which could significantly affect both production and water usage in the area. Overall maintenance for the system should be significantly reduced in the future due to improvements incorporated during the past year which will automatically regulate water flow, which will in turn reduce water losses and damage from overflows.

Division of Water and Land Development

ROBERT T. CHUCK, Manager-Chief Engineer

ORGANIZATION CHART DIVISION OF WATER & LAND DEVELOPMENT



6/30/70

The Department of Land and Natural Resources is the State's principal water agency, and administers a number of water related programs through the Division of Water and Land Development. These programs are authorized generally, and given guidance by the provisions of Chapters 174-180, and related Sections, of Hawaii Revised Statutes. The Division is responsible, within the broad direction and policy control of the Chairman and the Board, for administration of the Departmental programs for Water Supply and Flood Prevention and Control, and in addition, provides administrative support to the Soil and Water Conservation District units within the State. Professional and technical staff of the Division also provide, on request, civil engineering and other technical support services to all divisions in the Department.

The Division is responsible for interagency program coordination, and conducts statewide water resources planning, research, and development activities; cooperates in hydrologic investigations; administers regulation of groundwater resources; and provides a general water resources information service to the public. Some of the activities of the Division are related to and at times interact with the watershed management programs of the Division of Forestry, and with water development and management activities of other State agencies, Federal and County agencies, and private organizations in the State.

A number of Federal, State, and County agencies are engaged in programs and projects for flood prevention and flood control in the State, as are interested private organizations and individuals. The role of the Division in this broad area is to develop and maintain a general flood control plan for the State, and to coordinate the numerous activities of

the many concerned agencies. The efforts of the Division in this respect are particularly related to the activities of the U. S. Corps of Engineers, and with the Public Works Departments of the several Counties, since these are the agencies most generally involved in actual development of flood control projects.

The Division is functionally organized into four operating branches; for Water Resources and Flood Control, for Project Development, Design and Construction, and for Water Distribution and Maintenance. Professional engineering talent is drawn from within these groups to provide support to Departmental Staff Offices, and to other units of the Department as needed.

FLOOD CONTROL

The Department, through the Division of Water and Land Development, continuously develops and maintains a general Flood Control Plan for the entire State of Hawaii, and coordinates the planning and development activities of the many Federal, State, County, and private agencies and organizations concerned with the problem.

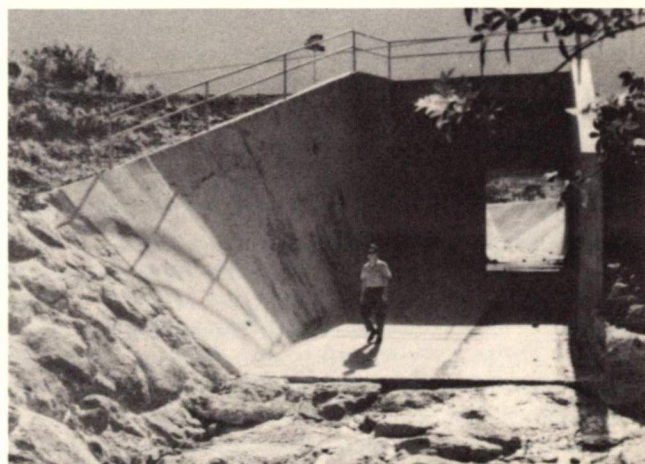
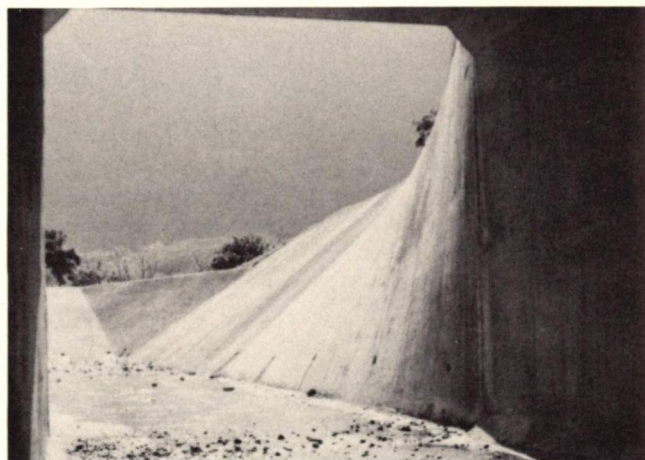
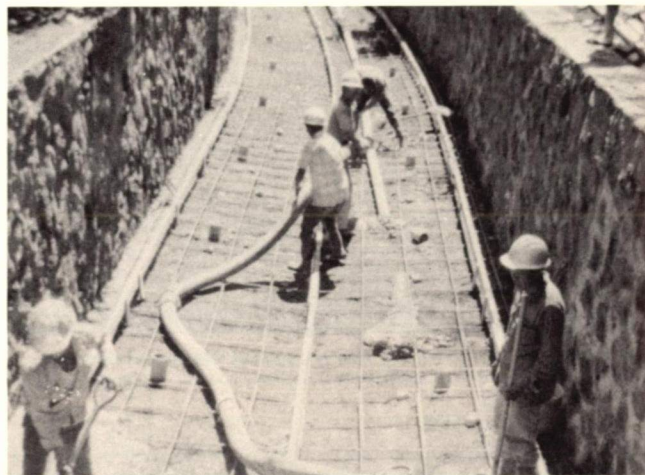
During the past year, heavy storm waves battered the north shores of all islands of the State, inflicting not less than \$1.5 million in property damage on Oahu alone. One serviceman was swept out to sea and lost, one individual suffered a fatal heart attack while assisting in rescue operations, and there were fifteen injured by the storm waves. This single storm loss more than equaled the average annual flood damage loss for the entire State. In addition, there were during the year numerous losses reported from lesser storm events. In an effort to reduce these increasing costs of flood damage, a number of Federal, State, and local government agencies, and private organizations are increasing their flood prevention and control activities.

The General Flood Control Plan promotes two basic means for minimizing flood losses. These are: measures for control of destructive flood waters; and, measures for control of land uses and land development within flood hazard areas. The plan provides generally for inter-agency organization and maintenance of flood-fighting and flood-relief teams. Additionally, individuals who now reside in hazardous flood plains are being encouraged to purchase flood insurance as a partial protection against economic disaster caused by flood damage.

Basic Flood Information

The Division of Water and Land Development maintains a complete file on reports of floods and flood damage in the State of Hawaii. These files include news media reports and field survey reports prepared by Division staff and other agencies including the State and County Civil Defense Departments, the Corps of Engineers, the Soil Conservation Service, the Small Business Administration, the Bureau of Public Roads, the Red Cross, and State and County transportation, public works, and water service agencies. All information collected is evaluated by Division staff, and utilized in justification of proposed flood control projects.

The U. S. Geological Survey, under terms of a cooperative agreement with the Department, maintains a network of flood crest-gage stations and collects data on flood conditions throughout the State. Flood data collected from these operations are analysed, tabulated, and published as an annual report. This information is essential to all agencies for planning and design of flood control facilities.



Stream channel improvements on State lands at Waimanalo, Oahu, designed to minimize flooding and flood damage to lands and facilities.

Flood Plain Mapping

The Legislature appropriated \$47,000 to the Department this year for watershed study and flood plain mapping to expedite the preparation of flood plain maps which delineate the limits of potential flooding in selected watersheds. These maps are essential to planners, engineers, land developers, and land owners in making prudent use of flood hazard areas. Through cooperative action with the U. S. Army Corps of Engineers, flood plain maps were completed for Kahoma Stream on Maui; for Hilo, Hawaii; Keaahala Stream on Oahu; and, for Wailua River on Kauai. In addition, work is in progress for preparation of maps for Kalihi, Makaha, Moanalua, and Kaluauo Streams on the Island of Oahu.

The Department cooperated with the U. S. Soil Conservation Service in preparation of a flood plain map for Kealahua Stream in Kalaheo, Oahu. This total output of flood plain maps compares favorably with the past record of one or two maps prepared annually.

Flood Control Projects

Virtually all major flood control projects within the State are constructed by the U. S. Corps of Engineers, under the authority of Section 205 of the Flood Control Act of 1948; or under the auspices of the U. S. Soil Conservation Service under the provisions of Public Law 566.

During the year, the Corps of Engineers completed the Kuliouou Stream Flood Control Project, and currently are in research and planning phases for projects for Iao Stream and Kahoma Stream on the Island of Maui, Kalihi Stream, and the Palolo-Manoa and Kaneohe-Kailua projects on the Island of Oahu; Waipio Stream-Hamakua-Kohala coast project on the Island of Hawaii; and the Wailua River project on Kauai.

The Soil Conservation Service sponsored program includes projects under construction at Waianae on the Island of Oahu, which will provide protection to a number of small communities on the lee shore of the island. A unique feature of this project is an outlet structure at the Ulehewa Stream channel mouth, which is designed to automatically wash out sand which normally blocks the stream, before the peak crest of the flood water hits. Also in progress is a project in Kona, Hawaii which will protect the Kainaliu and Kailua communities. In Kainaliu, flood waters will be diverted into huge lava tubes. Other flood control projects

are in early planning stages throughout the State.

The Division completed construction of a lined channel and drainage culvert on State land in the Waimanalo area, which will reduce periodic flooding in areas planned for residential development. The Division is also constructing a masonry lined ditch near the corner of Pensacola and Prospect Streets in Honolulu, which will improve drainage in that area.

Soil and Water Conservation Districts

The Division staff provide administrative assistance to the fifteen Soil and Water Conservation Districts in the State. Each District, governed by five Directors, plans and establishes cooperative action programs for conservation, development, and management of water and soil resources within their district. Local efforts for conservation and erosion control are supplemented by technical and financial assistance from various Federal, State, and County agencies.

Staff of the Division supervise district elections, and through the Chairman, certify election of Directors; coordinate efforts of the Districts for mutual activities; provide information and technical assistance when requested; and, support and coordinate the annual SWCD State Conference.

ENVIRONMENT

The direct responsibility for the control and management of a major portion of the natural resources of the State implies also a high degree of responsibility to assure that mismanagement and mis-use of these resources do not contribute to deterioration of the total environment of the State.

Action is being taken within the Department to improve the liaison and coordination between divisions and program areas, and most particularly where the development or utilization of resources may create ecological or environmental problems. A more rigorous process for analysis of proposed and potential projects is being put into effect. These positive procedures should aid in minimizing or eliminating problems created by direct actions and functions of the Department.

In addition, the Department, in coordination with other agencies of the State government is taking steps to improve the coordination and control of inter-agency or multi-agency areas of responsibility which should significantly improve the total State efforts for protection and enhancement of the environment.

SECTION 8

Appendices to the Report

- of the Department of Land and Natural Resources

1969-1970

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

PERSONNEL DIVISION

Table 1. SUMMARY OF PERSONNEL TRANSACTIONS—July 1, 1969 to June 30, 1970

Accessions	113	Other Personnel Actions	204
New Hire — Permanent	36	(Excludes increment and pay adjustments; conversion from probational to permanent status.)	
Inter-agency Transfer	8	Promotion	11
New Hire — Limited Term Appointment	15	Reallocation	21
Temporary Appt. Outside List	7	Reclassification	19
Emergency	35	Change in Title	17
Provisional	11	Limited Term Promotion	7
Exempt	1	Temporary Assignment	43
Separations	51	Intra-agency Transfer	10
Resignation and Transfer		Extension Limited Term Appointment	12
(Permanent employees)	27	Extension Temporary Appt. Outside List	1
Resignation and Termination		Extension Exempt Appointment	5
(Temporary Services)	16	Limited Term Appt. to Permanent Appt.	32
Retirement	8	Provisional to Permanent	1
		Leave Without Pay (Maternity)	4
		Leave Without Pay (Others)	20
		Extension Leave Without Pay	1

Table 2. FULL-TIME PERSONNEL EMPLOYED BY THE DEPARTMENT, BY DIVISIONS AND ISLANDS, AS OF JUNE 30, 1970

Divisions	June 30, 1969	June 30, 1970					Total
		Hawaii	Oahu	Kauai	Maui	Molokai Lanai	
Administration and Staff Offices	25	1	23	1	—	—	25
Conveyances	40	—	42	—	—	—	42
Fish & Game	63	15	36	5	5	5	66
Forestry	78	31	21	19	14	3	88
Land Management	26	2	23	2	2	—	29
State Parks, Outdoor Recreation and Historic Sites	85	19	31	32	9	—	91
Water & Land Development	50	4	42	1	—	3	50
Total	367	72	218	60	30	11	391

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 1960-1970

Fiscal Year	Number of Deeds Filed and Recorded	Approx. Value of Land Conveyed	Total Filing and Recording Fees Received
1960-61	9,481	\$119,661,400.00	\$267,664.05
1961-62	9,045	109,942,500.00	276,640.40
1962-63	11,061	101,987,000.00	314,485.90
1963-64	11,680	102,232,000.00	357,938.40
1964-65	12,175	101,482,100.00	408,619.55
1965-66	12,799	133,301,000.00	412,919.30
1966-67	11,643	218,966,000.00	341,266.65
1967-68	13,615	528,972,370.00	344,247.30
1968-69	14,683	809,639,656.00	386,887.25
1969-70	14,876	822,665,446.00	398,025.75

Table 2. DOCUMENTS RECORDED AND FILED AND LAND COURT CERTIFICATES OF TITLE ISSUED BY THE BUREAU OF CONVEYANCES FROM 1960-1970

Fiscal Year	Documents Recorded and Filed			
	Total	Regular System	Land Court System	Land Court Certificates of Title Issued
1960-61	48,529	32,039	16,490	3,817
1961-62	52,013	35,416	16,597	3,524
1962-63	58,803	40,211	18,592	4,619
1963-64	67,004	42,273	24,731	5,884
1964-65	76,033	47,190	28,843	5,698
1965-66	77,011	46,640	30,371	6,000
1966-67	67,690	42,834	24,856	5,549
1967-68	84,922	56,864	28,058	6,006
1968-69	90,502	61,095	29,407	6,146
1969-70	92,638	64,838	27,800	6,437

Table 3. RECEIPTS AND DISBURSEMENTS OF THE BUREAU OF CONVEYANCES FROM 1960 TO 1970

Fiscal Year Ending June 30	RECEIPTS			DISBURSEMENTS		
	Total	Regular System	Land Court System	Total	Regular System	Land Court System
1960-61	\$ 270,033.95	\$ 190,340.40	\$ 79,693.55	\$ 240,162.33	\$ 151,859.96	\$ 88,302.37
1961-62	279,283.70	202,179.05	77,104.65	241,078.16	147,697.94	93,380.22
1962-63	317,092.90	226,325.50	90,767.40	257,510.97	155,804.07	101,706.90
1963-64	360,775.00	241,327.70	119,447.30	236,623.99	149,042.46	87,581.53
1964-65	412,761.75	285,556.95	127,204.80	208,090.75	109,908.77	98,181.98
1965-66	417,023.20	282,555.30	134,467.90	244,667.91	133,111.94	111,555.97
1966-67	346,800.75	225,594.85	121,205.90	317,808.00	168,438.24	149,369.76
1967-68	410,961.30	282,399.70	128,561.60	331,976.00	173,554.00	158,422.00
1968-69	459,689.30	326,575.55	133,113.75	339,068.04	186,487.42	152,580.62
1969-70	473,759.05	342,879.30	130,879.75	377,681.00	207,724.55	169,956.45
10 yr. total	\$3,748,180.90	\$2,605,734.30	\$1,142,446.20	\$2,794,667.15	\$1,583,629.35	\$1,211,037.80

Table 4. VALUE OF PROPERTY TRANSFER IN THE STATE OF HAWAII, BY COUNTIES, 1960-1970^a

Year ^b	MAUI		HONOLULU		HAWAII		KAUAI		State of Hawaii
	% of State	Amount	% of State	Amount	% of State	Amount	% of State	Amount	
69-70	9.86	\$81,144,955	72.55	\$596,804,446	14.20	\$116,747,734	0.33	\$27,968,311	\$822,665,446
	8.64	70,002,720	77.43	626,956,508	11.13	90,146,136	2.73	22,534,292	809,639,656
67-68	5.89	31,161,313	79.35	419,762,778	12.58	66,555,325	2.17	11,492,954	528,972,370
66-67	4.94	10,825,300	83.26	182,315,500	8.44	18,469,200	3.36	7,356,000	218,966,000
65-66	6.13	8,173,500	81.38	108,486,500	9.77	13,029,500	2.71	3,611,500	133,301,000
64-65	5.56	5,647,000	78.93	80,103,200	12.54	12,722,400	2.97	3,009,500	101,432,100
63-64	7.63	7,802,500	83.37	85,231,235	7.75	7,923,200	1.25	1,275,100	102,240,035
62-63	3.50	3,569,500	81.00	82,604,000	14.21	14,494,000	1.29	1,319,500	101,987,000
61-62	2.46	2,719,500	87.96	97,231,500	8.55	9,452,000	1.03	1,139,500	110,542,500
60-61	5.07	6,063,700	88.64	103,683,500	6.99	8,362,200	1.30	1,552,000	119,661,400

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

^b Fiscal year ending June 30.

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

Report prepared by: Economic Research Center, University of Hawaii

DIVISION OF FISH AND GAME

Table 1. FRESHWATER GAME FISHING LICENSE AND HUNTING LICENSE STATISTICS 1958-59 TO 1969-70

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

Table 2. COMMERCIAL FISHING LICENSES AND PERMITS 1969-70

Kind of License and Permits	Number	Collections (dollars)
Commercial Fishing-Resident	1,253	\$12,530.00
Commercial Fishing-Non-Resident . .	11	220.00
Power Boat Permit	643	4,268.50
Row Boat and Sail Boat Permit . . .	27	27.00
Boat Plates (pair)	235	320.40
Mullet License	76	272.50
Lobster License	4	5.50
Commercial Bait Permit	44	44.00
Duplicate Commercial Fishing License	5	2.50
TOTAL	2,298	\$17,690.40

Table 3. COLLECTIONS – ALL SOURCES: 1964-65 TO 1969-70

Years ending June 30	All Collections	Commercial Fishing	Freshwater Game Fishing	Hunting	Miscellaneous Licenses, Permits, and Other Income
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: 1969-70

Type	Hawaii		Maui		Oahu		Kauai		STATE	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	28	\$101.79	23	\$157.50	3,575	\$12,798.74	358	\$1,285.33	3,984	\$14,343.36
Non-Resident	—	—	—	—	13	93.73	3	21.36	16	115.09
Juvenile	6	8.70	—	—	848	1,217.93	106	153.57	960	1,380.20
Tourist	1	3.56	—	—	65	233.23	10	36.55	76	273.34
Duplicate	—	—	—	—	31	15.32	3	1.50	34	16.82
TOTAL	35	\$114.05	23	\$157.50	4,532	\$14,358.95	480	\$1,498.31	5,070	\$16,128.81

Table 5. HUNTING LICENSES: 1969-70

	Hawaii		Maui		Oahu		Kauai		STATE	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Resident	2,367	\$17,082.99	1,893	\$13,573.37	3,776	\$27,063.00	1,027	\$7,381.12	9,063	\$65,100.48
Non-Resident	285	3,841.50	33	478.50	36	522.75	7	101.25	361	4,944.00
Duplicate	133	236.75	113	55.89	78	37.77	25	12.00	349	342.41
Total	2,785	\$21,161.24	2,039	\$14,107.76	3,890	\$27,623.52	1,059	\$7,494.37	9,773	\$70,386.89

Table 6. MISCELLANEOUS GAME LICENSES, SALES, DONATIONS AND RENTAL: 1969-70

Type	Number	Amount (dollars)
Game Bird Farm License	73	\$ 73.00
Sale of Publication "Game Birds in Hawaii"	108	45.50
Sale of Confiscated Legal Hunting Gear	72	175.00
Sale of Confiscated Fishing Gear	5	72.00
Donation	—	—
Rental of Hunting Cabins-Hawaii	33	576.00
Total	291	\$941.50

Table 7. MISCELLANEOUS PERMITS (NO CHARGE) 1969-70

Type	Number
Permit for destruction of wild bird injurious to crops	9
Scientific collecting permit	17
Field trial permit (hunting)	4
Permit for entry on bird sanctuaries	79
Aquarium fish permit	49
Permit to keep birds in captivity	3
Group permit	1
Other permit	7
Total	169

Table 8. FEDERAL AID FUNDS 1969-70

Type	Amount (dollars)
Pittman-Robertson Federal Aid in Wildlife Restoration Fund	\$141,314.54
Dingell-Johnson Federal Aid in Fish Restoration Fund	98,182.50
Nene Restoration Project Fund	20,099.38
Hawaiian Islands National Wildlife Refuge Fund	—
Commercial Fisheries Research & Development (P.L. 88-309) Fund	36,725.49
Total	\$296,321.91

Table 9. COMMERCIAL FISH CATCH BY SPECIES, STATE OF HAWAII – FISCAL YEAR JULY, 1969 - JUNE, 1970

Sea Catch by Species

Species	Pounds	Value	Species	Pounds	Value
Aku (Skipjack)	5,704,127	\$1,149,566	Palani	16,395	3,815
Ahi (Yellowfin)	586,574	361,113	Pualu	9,748	2,049
Ahipalaha (Albacore)	25,379	11,363	Puhi (eel)	7,133	485
Ahi (Bigeye)	729,672	683,370	Puhi (white eel)	1,752	226
Kawakawa	25,893	6,230	Uhu	7,305	2,320
Swordfishes (Misc.)	116	58	Ukikiki (Gindai)	2,018	1,538
Stripe Marlin	330,275	212,670	Uouoa	554	372
Pacific Blue Marlin *	150,306	52,117	Uu (Menpachi)	17,091	12,251
Black Marlin **	1,177	693	Weke	46,678	16,504
Broadbill	10,051	3,050	Malu	867	556
A'u lepe (Sailfish)	945	352	Crab (Papai-Misc.)	5,371	2,785
Mahimahi	73,876	60,409	Crab (Kona)	35,042	43,340
Ono	42,734	11,829	Crab (Kuahonu)	36,160	42,518
Hapuupuu	36,695	21,928	Crab (Moala)	14	7
Kahala	86,165	30,085	Crab (Samoan)	53	64
Kalekale	5,710	6,088	Opae (Shrimp)	2,084	3,298
Omilu	4,682	3,298	Ula (Lobster)	6,591	6,853
Opakapaka	72,730	48,813	Ulapapapa	357	313
Uku	50,673	27,964	Hee (Octopus)	6,157	4,419
Ulaula (Ehu)	18,291	22,102	Muhee (True Squid)	3,124	1,887
Ulaula Koae (Onaga)	43,793	64,195	Opihi (Limpet)	20,663	18,818
Ulua	93,203	42,901	Honu (Turtle)	12,673	5,646
Weke-ula	11,234	9,596	Misc.	117,222	36,071
Aawa	793	143			
Aholehole	2,488	1,785	TOTAL	9,766,983	\$3,574,521
Akule	696,692	253,369			
Hahalalu	271,953	101,982			
Amaama (Mullet)	16,991	19,711			
Awa	17,216	5,078			
Aweoweo	2,763	1,077			
Humuhumu (Hage)	2,050	734			
Kaku (Barracuda)	4,200	894			
Kala	24,237	3,567			
Kawelea	3,109	1,403			
Kumu	8,708	11,931			
Laenihi (Nabeta)	3,978	2,326			
Lehi	2,676	1,199			
Maomao (Mamo)	1,454	618			
Manini	10,209	6,248			
Moano	11,595	7,881			
Moi	12,094	12,491			
Moelua	8,411	4,619			
Nenu	3,092	1,368			
Noho (Hogo)	1,472	1,097			
Oio	17,178	4,880			
Opelu	184,271	94,195			

Pond Catch by Species

Species	Pounds	Value
Ulua	506	\$ 461
Aholehole	57	27
Amaama (Mullet)	307	329
Awa	11,782	5,891
Awaawa	388	133
Kaku	403	357
Moi	14	15
Oio	3,256	1,277
Crab (Kuahonu)	1,319	1,096
Crab (Moala)	56	23
Crab (Samoan)	293	259
Opae (Shrimp)	15	45
Misc.	1,347	502
TOTAL	19,743	\$ 10,415
GRAND TOTAL	9,786,726	\$3,584,936

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

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

Table 10. COMMERCIAL FISH LANDINGS BY ISLAND, STATE OF HAWAII – FISCAL YEAR – JULY, 1969 THROUGH JUNE, 1970

Island	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
Hawaii	768,836	\$ 310,768	12	\$ 10	768,848	\$ 310,778
Maui	749,897	179,566	—	—	749,897	179,566
Lanai	13,131	5,823	—	—	13,131	5,823
Molokai	13,121	6,483	276	115	13,397	6,598
Oahu	7,915,868	2,965,804	19,455	10,290	7,935,323	2,976,094
Kauai	306,130	106,077	—	—	306,130	106,077
TOTAL	9,766,983	\$3,574,521	19,743	\$10,415	9,786,726	\$3,584,936

Table 11. COMMERCIAL FISH LANDINGS BY MONTH, STATE OF HAWAII – FISCAL YEAR – JULY, 1969 THROUGH JUNE, 1970

Month 1969	Sea Catch		Pond Catch		Total	
	Pounds	Value	Pounds	Value	Pounds	Value
July	1,627,000	\$ 377,091	1,053	464	1,628,053	\$ 377,555
August	1,322,405	322,088	1,191	650	1,323,596	322,738
September	697,357	277,101	1,315	663	698,672	277,764
October	693,690	296,562	2,035	977	695,725	297,539
November	685,857	294,109	1,222	686	687,079	294,795
December	602,396	378,037	1,844	952	604,240	378,989
1970						
January	231,421	159,088	2,124	1,144	233,545	160,232
February	532,211	275,350	1,766	939	533,977	276,289
March	502,290	274,162	1,204	620	503,494	274,782
April	573,936	250,153	1,955	1,032	575,891	251,185
May	979,624	343,063	2,044	1,153	981,668	344,216
June	1,318,796	327,717	1,990	1,135	1,320,786	328,852
TOTAL	9,766,983	\$3,574,521	19,743	\$10,415	9,786,726	\$3,584,936

Table 12. FISHING AND HUNTING VIOLATIONS 1969-70

Type of Violation	Number	Type of Violation	Number
FISHING VIOLATIONS		HUNTING VIOLATIONS	
Fishing with illegal mesh net/throw net	23	Hunting without license	18
Taking and possession of lobster with spear, below the legal weight, during closed season and while with eggs	35	Hunting game birds and game mammals during the closed season and hunting deer at night	16
Taking oysters during the closed season	11	Unlawful carriage and possession of firearms	11
Taking, possession and offering for sale sea mullet during the closed season	12	Hunting and being present and discharging firearms in game management area and safety zone without permit	16
Possession of octopus and spearing fish below the legal weight and size	8	Failure to display hunting license while hunting	4
Fishing without freshwater game fishing license	49	Hunting game mammals in game management area without wearing bright orange colored garment	15
Fishing with more than 1 pole in PFA and taking undersize freshwater game fish	3	Failure to check in and out at hunter checking station and minor below 16 years hunting unaccompanied by an adult	8
Fishing in marine life conservation district	10	Total Hunting Violations	88
Minor fishing in PFA without adult supervision	2		
Fishing in Wahiawa PFA without life preserver	6		
Commercial fishing without license	17		
Unlawful entry and fishing in freshwater fish refuge and PFA without permit	30		
Unlawful fishing in Waikiki Reclamation Canal	1		
Failure to display commercial fishing boat numbers on commercial fishing craft	1		
Fish dealer failure to submit report	2		
Total Fishing Violations	210		
		MISCELLANEOUS VIOLATIONS	
		Unlawful shooting of sea turtles	1
		Landing on bird sanctuary island without permit	2
		Total Miscellaneous Violations	3

Table 13. ARRESTS AND DISPOSITION 1969-70

Subject	The State	Hawaii County	Kauai County	Maui County	Honolulu County
Citations	286	33	28	74	151
Arrests	15	—	2	8	5
Number of Charges	305	33	30	83*	159**
Convictions	105	4	9	27**	73**
Bail Forfeitures	80	20	2	40**	22
Juvenile Court	69	4	13	16**	37
Cases Pending	46	5	6	8	27
Fines	41	—	4	18**	20
Suspended Fines	18	—	2	2	17**
Suspended Sentence	27	4	—	—	25**
Split Fines (Fines, Suspended Fines)	18	1	4	8**	7
Cases Dismissed	5	—	—	—	12**

* Additional Charges (1 Maui, 3 Honolulu)

** Includes Disposition of 20 pending cases from 1968-1969: Maui (4-Bail Forfeitures, 1-Fine, 2-Split Fines, 1-Juvenile Court), Honolulu (7-Dismissed, 3-Split Fines, 2-Suspended Sentence)

Table 14. INCOME FROM ARRESTS 1969-70

Area	Fines	Bail Forfeitures	Suspended Fines
The State	\$1,215	\$1,735	\$1,090
Hawaii County	75	195	25
Honolulu County	330	525	605
Kauai County	140	50	100
Maui County	670	965	360

DIVISION OF FORESTRY

Table 1. FOREST INCOME. FISCAL YEAR 1969-70

Source	Hawaii	Kauai	Maui	Molokai	Oahu	Central Nursery	Total
	dollars						
Nursery Sales	141	280	60	—	—	901	1,382
Sales of Forest Products:							
Timber	1,723	—	—	—	—	—	1,723
Tree Ferns	1,282	5	111	—	—	—	1,398
Other ¹	726	949	283	—	858	—	2,816
Total Non-Federal ²	3,872	1,234	454	—	858	901	7,319
Federal Assistance Programs:							65,519
Clarke-McNary, Sec. 2 (Forest Fire Protection)							3,000
Clarke-McNary, Sec. 4 (Nursery Operation)							38,000
Title IV (Reforestation)							2,500
Agricultural Conservation							14,868
Cooperative Forest Management							123,887
Total Federal							131,206
GRAND TOTAL							

¹ Numerous items including Ti leaves, ginger root, bamboo, and wild tree seedlings.

² Collections are administered by the Division of Land Management. Receipts reported above do not include those from sales of water originating within the forest reserves.

Table 2. REFORESTATION PROGRAM IN FOREST RESERVES. FISCAL YEAR 1969-70

Island	Planting	Replanting	Activity Weeding	Pruning	Thinning
	acres				
Hawaii	1,347	151	213	85	37
Kauai	157	26	242	95	—
Maui	—	132	223	27	1
Molokai	16	—	—	22	—
Oahu	39 ¹	4	8	3	—
State	1,559	313	686	232	38

¹ Including 20 acres aerial seeding.

Table 3. ACRES AND NUMBERS OF TREES PLANTED BY SPECIES AND FOREST RESERVE, FISCAL YEAR 1969-70¹

Species	Forest Reserve and Island									Total
	Hamakua (Hawaii)	Waiakea (Hawaii)	Upper Waiakea (Hawaii)	Halealea (Kauai)	Puu Ka Pele (Kauai)	Wailua (Kauai)	Molokai (Molokai)	Ewa (Oahu)	Waianae- Kai (Oahu)	
Australian redcedar	12	153	126	—	—	—	—	—	—	291
<i>Toona australis</i>	(2,300)	(60,300)	(40,300)	—	—	—	—	—	—	(102,900)
Bagras eucalyptus	—	57	39	—	—	—	—	—	—	96
<i>Eucalyptus deglupta</i>	—	(22,775)	(11,800)	—	—	—	—	—	—	(34,575)
Blackbutt	—	—	—	—	6	—	—	—	—	6
<i>Eucalyptus pilularis</i>	—	—	—	—	(2,909)	—	—	—	—	(2,909)
Gray ironbark	—	—	—	8	—	—	—	2	—	10
<i>Eucalyptus paniculata</i>	—	—	—	(2,500)	—	—	—	(1,050)	—	(3,550)
Lemon-gum	—	6	—	—	—	—	—	—	—	6
<i>Eucalyptus citriodora</i>	—	(1,800)	—	—	—	—	—	—	—	(1,800)
Queensland-maple	18	61	50	—	—	—	—	—	—	129
<i>Flindersia brayleyana</i>	(4,275)	(22,410)	(15,250)	—	—	—	—	—	—	(41,935)
Robusta	—	4	—	—	—	—	—	—	—	4
<i>Eucalyptus robusta</i>	—	(2,000)	—	—	—	—	—	—	—	(2,000)
Rosegum	—	39	65	—	5	10	—	—	—	119
<i>Eucalyptus grandis</i>	—	(16,500)	(24,300)	—	(2,006)	(2,960)	—	—	—	(45,766)
Saligna	—	383	334	23	98	6	5	15	2	866
<i>Eucalyptus saligna</i>	—	(131,910)	(128,100)	(5,480)	(48,626)	(2,200)	(2,248)	(6,400)	(800)	(325,764)
Slash pine	—	—	—	—	—	—	11	—	—	11
<i>Pinus elliottii</i>	—	—	—	—	—	—	(7,635)	—	—	(7,635)
Tallowwood	—	—	—	—	1	—	—	—	—	1
<i>Eucalyptus microcorys</i>	—	—	—	—	(400)	—	—	—	—	(400)
TOTAL ACRES	30	703	614	31	110	16	16	17	2	21,539
TOTAL TREES	(6,575)	(257,695)	(219,750)	(7,980)	(53,941)	(5,160)	(9,883)	(7,450)	(800)	(569,234)

¹ Within body of table numbers not enclosed in parentheses are acres; those enclosed are numbers of trees.
² In addition 20 acres was seeded by helicopter on Ewa Forest Reserve with robusta.

Table 4. NURSERY PRODUCTION, FISCAL YEAR 1969-70

Land Ownership Class	Central Tree Nursery			Hilo		Kauai		Maui		State	
	Timber & Other	Wind-break	Timber & Other	Timber & Other	Wind-break	Timber & Other	Wind-break	Timber & Other	Wind-break	Timber & Other	Wind-break
Federal	1,550	—	4,440	—	—	—	—	—	—	—	—
State Forest Reserve	601,740	—	22,150	—	—	110	—	51,495	—	6,100	—
Other State Lands	23,020	—	46	—	—	50,087	—	42	—	725,472	150
Town, City, County, & Public Schools	3,927	500	50	—	—	140	—	—	—	23,248	—
Persons, Clubs, Associations, & Private Schools	112,107	34,847	149	—	—	146	—	—	—	4,123	500
Forest Reserves, Not State Owned	79,000	—	—	—	—	—	—	—	—	148,951	36,942
Plantations, Ranches, Power Companies, Not in Forest Reserve	6,000	1,000	—	—	—	—	—	—	—	79,000	—
Total Timber	827,344	—	26,835	—	—	1,192	—	634	—	7,826	1,000
Total Windbreak	36,347	—	—	—	—	51,675	—	88,866	—	994,720	—
All	863,691	—	26,835	—	—	1,745	—	500	—	38,592	—
						53,420		89,366		1,033,312	

Table 5. FOREST AND BRUSHLAND FIRES. FISCAL YEAR 1969-70

Location	Date	Acres Burned	Location	Date	Acres Burned
<i>The State</i> , 59 Fires	Total	50,832	<i>Kauai</i> , 4 Fires	Total	4
<i>Hawaii</i> , 44 Fires	Total	45,712	<i>Maui</i> , 2 Fires	Total	85
Puuanahulu, N. Kona	7/13/69	1,000	Between Opunaha Gulch and Makahuna . .	8/20/69	82
" " "	7/27/69	25	One Other	—	3
" " "	8/22/69	20	<i>Molokai</i> , None	Total	0
Kohala	9/24/69	37,000	<i>Oahu</i> , 9 Fires	Total	5,031
Lalamilo	9/24/69	400	Waimalu	10/30/69	24
Lalamilo (Waimea Rubbish Dump)	9/25/69	400	Kipapa Gulch (Ewa F. R.)	2/21/70	4,175
Lalamilo	10/ 7/69	130	Waimea (Kawailoa F. R.)	3/25/70	798
Lalamilo	10/14/69	10	Moanalua	5/19/70	15
Kalapana	10/24/69	400	5 Others	—	19
Kawaihae	10/25/69	5,000			
Parker Ranch	11/ 3/69	140			
Puuanahulu	11/16/69	20			
Puuanahulu	12/20/69	550			
Keaau, Puna	12/23/69	170			
Kau (South Point)	12/24/69	60			
Waiakea Homesteads	1/18/70	65			
Pohakuloa Training Area	2/ 7/70	180			
Waiakea Forest Reserve	2/21/70	21			
Hulunani and Kaunaloa	3/30/70	50			
Waiakoloa (Boise-Cascade)	5/ 8/70	15			
Ouli (South Kohala)	5/25/70	25			
23 Others	—	31			

Table 6. ROADS, TRAILS, AND FENCES

Island	Construction			Maintenance		
	Roads	Trails	Fences	Roads	Trails	Fences
	feet					
Hawaii	79,200	—	3,696	826,056	56,496	53,035
Kauai	6,600	15,840	5,808	249,480	417,120	8,735
Molokai	9,768	—	—	237,600	7,920	9,600
Maui	—	15,946	1,531	182,160	13,728	33,145
Oahu	—	—	—	13,200	163,680	175
TOTAL	95,568	31,786	11,035	1,508,496	658,944	104,690
MILES	18.1	6.0	2.1	285.7	124.8	19.4

Table 7. SURRENDER AGREEMENTS FOR PRIVATE LANDS IN CONSERVATION DISTRICTS, JUNE 30, 1970

Land	Forest Reserve	Owners	Date of Expiration	Term	Area (Acres)
<i>Kauai:</i>					
Wainiha	Halelea	McBryde Sugar Company	2-14-1989	20	10,120
					10,120
<i>Oahu:</i>					
Honouliuli	Honouliuli	James Campbell Estate	2-15-1977	20	4,911
Laie	Kahuku	Zions Securities Corporation	5-22-1988	20	2,560
Kaipapau	Kaipapau	Zions Securities Corporation	5-22-1988	20	276
					7,747
<i>Molokai:</i>					
Naiwa 3	Molokai	Molokai Ranch Company	7- 3-2001	50	53
Manowainui	Molokai	Molokai Ranch Company	7- 3-2001	50	50
Kaunakakai	Molokai	Molokai Ranch Company	7- 3-2001	50	965
Makakupaia	Molokai	Molokai Ranch Company	7- 3-2001	50	654
Kawela	Molokai	Molokai Ranch Company	7- 3-2001	50	33,850
					5,572
<i>Maui:</i>					
Kipahulu	Kipahulu	Ulupalakua Ranch Company	12-31-1978	20	3,519
					3,519
<i>Hawaii:</i>					
Kukuau I	Hilo	A.A. Richardson Estate	12-31-1978	20	2,979
					2,979
GRAND TOTAL					29,937

Table 8. FOREST AND WATER RESERVE WITHIN CONSERVATION DISTRICT, JUNE 30, 1970
(In acres. Before July 10, 1961, these areas comprised the "Forest and Water Reserves.")

Island and Reserve	All Agencies	State Lands	Hawaiian Home Lands	City & County Lands	Federal Lands	Private Lands
All islands	1,196,040.005	808,480.007	25,100.23	3,034.49	10,722.37	348,702.908
KAUAI	163,128.38	83,133.27	9,870.00	1,158.50	—	68,966.61
Halelea	39,720.00	14,147.00	—	—	—	25,573.00
Haupu	3,230.00	—	—	—	3,230.00	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	—	—	—	—
Papapahalahola	54.40	—	—	54.40	—	—
Puu Ka Pele	15,565.90	7,965.90	7,600.00	—	—	—
Puu Ka Pele Park	1,104.10	—	—	1,104.10	—	—
OAHU	123,029.318	30,630.95	188.00	1,725.42	10,722.37	79,762.578
Ewa	27,930.24	5,798.10	—	—	3,895.00	18,237.14
Hauula	9,493.76	1,443.76	—	—	—	8,050.00
Honolulu	20,450.348	7,497.97	—	1,725.42	335.92	10,891.038
Honouliuli	4,936.00	—	—	—	34.31	4,901.69
Kahuku	5,833.00	—	—	—	—	5,833.00
Kaipapau	1,173.00	897.00	—	—	—	276.00
Kaneohe	1,019.97	19.64	—	—	—	1,000.33
Kawailoa	18,696.00	—	—	—	—	18,696.00
Kuaokala	385.00	385.00	—	—	—	—
Kuliouou	214.00	214.00	—	—	—	—
Lualualei ¹	3,710.00	—	—	—	3,710.00	—
Makua-Keau	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	—	—	—	—
Manaowaialee	2,329.00	1,609.00	—	—	—	720.00
Mauna Kea	87,400.108	82,600.008	4,550.00	—	—	250.10
Mauna Loa	160,468.73	160,468.73	—	—	—	—
Nanawale	2,567.668	2,567.668	—	—	—	—
North Kona Watershed	491.93	452.70	—	—	—	39.53
Olaa	16,032.857	16,032.857	—	—	—	—
Olaa Forest Park Reserve	543.616	543.616	—	—	—	—
Upper Olaa	2,897.017	2,897.017	—	—	—	—
Panaewa	1,214.355	1,214.355	—	—	—	—
Puna	25,738.00	25,738.00	—	—	—	—
South Kona	24,612.333	23,322.333	—	—	—	1,290.00
Waiakea	11,197.282	11,197.282	—	—	—	—
Upper Waiakea	55,488.33	55,488.33	—	—	—	—

¹ Under control of U.S. Navy

Table 9. PUBLICATIONS, INSTITUTE OF PACIFIC ISLANDS FORESTRY, FY 1970

Harpole, George B.

1969. Wood products in Hawaii... consumption, production, and trade. U. S. Forest Serv. Res. Note PSW-198. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 5 p.

Harpole, George B.

1970. Opportunities for marketing Hawaii timber products. U. S. Forest Serv. Res. Paper PSW-61. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 33 p., illus.

Palmer, Thomas Y. and Merriam, Robert A.

1970. Cloud modification with electrically charged hexadecanol aerosol. Proc. Amer. Meteorological Soc. Second Nat. Conference on Weather Modification, Apr. 6-9, 1970, Santa Barbara, Calif. pp. 402-405.

Schubert, Thomas H. and Korte, Karl H.

1969. Early growth and development of four pine species in Hawaii. U. S. Forest Serv. Res. Note PSW-189. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 4 p., illus.

Wick, Herbert L.

1969. Bark thickness measurements of robusta eucalyptus... not biased by position. U.S. Forest Serv. Res. Note PSW-197. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 2 p., illus.

Wick, Herbert L. and Whitesell, Craig D.

1969. Stump diameter affects sprout development of tropical ash. U. S. Forest Serv. Res. Note PSW-196. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 3 p., illus.

Wong, Wesley H. C., Jr., Wick, Herbert L., and Nelson, Robert E.

1969. Plantation timber on the Island of Maui—1967. U. S. Forest Serv. Resource Bull. PSW-11. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 42 p., illus.

Wood, Hulton B., Merriam, Robert A., and Schubert, Thomas H.

1969. Vegetation recovering... little erosion on Hanalei watershed after fire. U. S. Forest Serv. Res. Note PSW-191. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 5 p., illus.

U. S. Forest Service

1970. Forestry research in the 50th State—1969. Institute of Pacific Islands Forestry, Honolulu, Hawaii. Pacific SW. Forest & Range Exp. Sta., Berkeley, Calif. 8 p., illus.

DIVISION OF LAND MANAGEMENTTable 1. LAND OWNERSHIP OR TENURE FOR HAWAII AS OF JUNE 30, 1968
(Acreage owned by Island)

	Federal Govt. ¹	Hawaii State Govt. ²	Major Private Landowners	Other ³	Total Land Area of Island
Island of Hawaii	241,858	1,095,247	1,052,583	183,753	2,573,441
Island of Kahoolawe		28,800			28,800
Island of Kauai	2,306	151,832	176,953	21,548	352,639
Island of Lanai	8		88,792	1,440	90,240
Island of Maui	26,478	204,376	221,223	13,843	465,920
Island of Molokai	78	51,685	110,444	3,563	165,770
Island of Niihau			46,065	15	46,080
Island of Oahu	56,241	56,672	221,820	46,057	380,790
Other ⁴		1,920			1,920
TOTALS	326,969	1,590,532	1,917,880	270,219	4,105,600

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 Isl., Pell Isl., Laysan Isl., Gardner Isl., French Frigate Shoals, Necker Isl., Bird Isl., and Lehua. Added to Honolulu County in following table.

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	4,105,600	1,590,532	38.7
County			
Honolulu	382,710*	58,952*	14.8
Maui and Kalawao	750,730	284,861	34.1
Hawaii	2,573,441	1,095,247	43.8
Kauai	398,719	151,832	39.9

* Includes 1920 acres of Kure, Pell Island etc. as listed in preceding table.

PUBLIC TRUST FUND CEDED LAND PROCEEDS Land Management Program

	ACTUAL 1969-1970	ESTIMATED 1970-1971
Receipts: (All Chapter 171 HRS)		
Rentals, Leased Public Lands	\$2,255,761	\$2,300,000
Rentals, Unleased Public Lands	580,448	600,000
Sale of Wood, rock and sand	139,065	140,000
License, Use of Government Water	162,468	165,000
License, Use of Government Land for Specific Purposes	40,851	45,000
TOTAL RECEIPTS	\$3,178,593	\$3,250,000
Expenditures:		
Revenue from Hawaiian Homes Lands & Transfers*	\$ 381,460	\$ 390,000
Transfers to General Fund	2,797,133	2,860,000
TOTAL TRANSFERS	\$3,178,593	\$3,250,000
*Hawaiian Home Lands Receipts:		
Loan Fund (Act 4, SLH 1965)	\$ 180,456	\$ 185,000
Administration Fund	108,137	110,000
Development Fund	92,867	95,000
TOTAL	\$ 381,460	\$ 390,000

GENERAL FUND REVENUES Land Management Program

Title of Receipt and Legal Reference	Fee Schedule	ACTUAL 1969-1970	ESTIMATED 1970-1971
Conveyance Tax (Act 5/68)	\$.50 per 100	\$ 3,391	\$ 4,500
Unclaimed Money & Cash Overages		15	—
Fees, Copies of Public Documents	\$.50 page (Xerox)	322	250
Fees, Issuance of Land Patents, etc.	\$20.00 each	6,651	7,000
Fees, Consents to Transfers, etc.	\$15.00 each	1,195	1,500
Fees, Surveying Public Lands	\$25.00 each	3,585	4,000
Fees, Appraisals		60	100
Sale of Publications		40	50
Sale of Improvements on Expired or Cancelled Leases		7,292	7,000
Cost of Managing Property acquired for Highway Purposes		1,000	—
Indemnity for damages to insured property		—	—
Sale of Wood, rock and sand		32,673	25,000
Interest on Delinquent Accounts		203	100
Witness or Juror Fees		30	—
Sales of Equipment or other Property		—	—
Refunds and Reimbursements of prior year's Expenditures		113	—
TOTAL GENERAL FUND REVENUES		\$56,570	\$49,500

SPECIAL LAND AND DEVELOPMENT FUND Land Management Program

	ACTUAL 1969-1970	ESTIMATED 1970-1971
Balance at the beginning:	\$3,119,243	\$3,685,352
Receipts:		
Interest on deferred Payments	\$ 55,644	\$ 60,000
Sale of Public Lands	989,296	1,000,000
Reimbursable Expenditures	1,919	2,600
Reimbursement of Improvements to Public Lands	240,248	120,000
Sub-totals	\$1,287,107	\$1,182,600
TOTAL RECEIPTS	\$4,406,350	\$4,867,952
Expenditures:		
Land & Interest in Land Structures & Permanent Improvements to Land	\$ 328,599	\$1,000,000
Transfers:		
Department of Social Services	\$ —	\$ —
Bond Fund Repayments	333,954	410,952
Administrative Costs	58,445	60,000
TOTAL EXPENDITURES	\$ 720,998	\$1,470,952
Balance at end	\$3,685,352	\$3,397,000

SUMMARY OF DISPOSITIONS, ALL ISLANDS—From July 1, 1969 to June 30, 1970

Counties	Executive Orders	Sales in Fee*	General Leases**	Revocable Permits**	Grand Total
HAWAII: (1st Land District)					
Number	19	20	35	11	85
Area (Acres)	4,173	13	6,648	221	11,055
Price* or Annual Rental**	\$ —	\$367,627	\$ 92,311	\$ 748.	\$ 468,686
MAUI: (2nd Land District)					
Number	2	—	6	36	44
Area (Acres)	207	—	113	2,043	2,363
Price* or Annual Rental**	\$ —	\$ —	\$ 9,144	\$ 19,488	\$ 28,632
OAHU: (3rd Land District)					
Number	32	14	17	72	135
Area (Acres)	1,104	2	1,940	376	3,422
Price* or Annual Rental**	\$ —	\$138,440	\$164,228	\$483,540	\$ 786,208
KAUAI: (4th Land District)					
Number	11	13	11	10	45
Area (Acres)	41	3	79	43	166
Price* or Annual Rental**	\$ —	\$125,792	\$ 29,658	\$ 3,552	\$ 159,002
GRAND TOTALS:					
Number	64	47	69	129	309
Area (Acres)	5,525	18	8,780	2,683	17,006
Price* or Annual Rental**	\$ —	\$631,859	\$295,341	\$515,328	\$1,442,528

GENERAL LEASES ISSUED—HAWAII July 1, 1969 to June 30, 1970

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ..	52.515	\$ 1,985.00	4
Business	65.099	10,990.00	4
Cane	3,667.500	25,065.00	5
County	—	—	—
Eleemosynary	—	—	—
Federal	—	—	—
Fishpond	—	—	—
Industrial	12.273	49,290.00	15
Pasture	2,849.311	4,905.00	3
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of Way .....	.825	76.34	4
Waste	—	—	—
Water Licenses, etc. ..	—	—	—
TOTALS	6,647.523	\$92,311.34	35

GENERAL LEASES ISSUED—MAUI July 1, 1969 to June 30, 1970

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ..	1.840	\$ 300.00	1
Business	108.137	8,500.00	1
Cane	—	—	—
County	—	—	—
Eleemosynary .....	.083	225.00	1
Federal	—	—	—
Fishpond	—	—	—
Industrial	—	—	—
Pasture	—	—	—
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of Way	2.429	118.94	3
Waste	—	—	—
Water Licenses, etc. ..	—	—	—
TOTALS	112.489	\$9,143.94	6

GENERAL LEASES ISSUED—OAHU July 1, 1969 to June 30, 1970

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ..	40.642	\$ 10,000.00	3
Business	—	—	—
Cane	—	—	—
County	—	—	—
Eleemosynary	—	—	—
Federal	2.172	Gratis	2
Fishpond	—	—	—
Industrial	12.581	151,700.00	7
Pasture	1,884.695	2,350.00	1
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of Way .....	.164	167.85	4
Waste	—	—	—
Water Licenses, etc. ..	—	—	—
TOTALS	1,940.254	164,227.85	17

GENERAL LEASES ISSUED—KAUAI July 1, 1969 to June 30, 1970

Use	Area (Acres)	Annual Rental	No.
Agriculture, General ..	9.170	900.00	1
Business	9.433	17,150.00	5
Cane	—	—	—
County .....	.158	288.00	1
Eleemosynary	—	—	—
Federal	1.343	Gratis	1
Fishpond	—	—	—
Industrial	1.614	3,770.00	1
Pasture	51.240	1,550.00	1
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of Way	—	—	—
Waste	—	—	—
Water Licenses, etc. ..	6.250	2,000.00	1
TOTALS	79.208	29,658.00	11

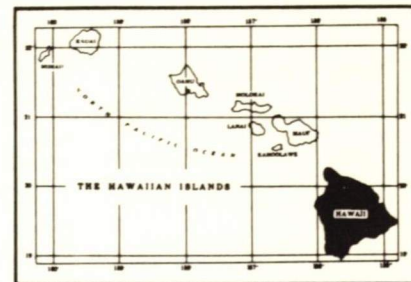
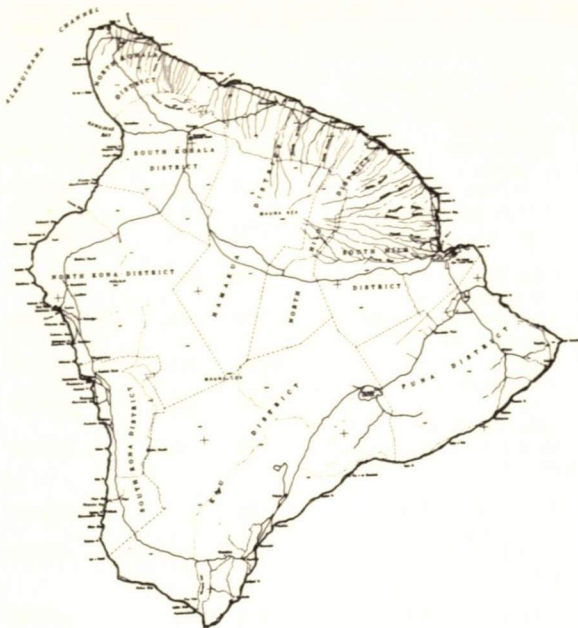
GENERAL LEASES ISSUED—ALL ISLANDS
July 1, 1969 to June 30, 1970

Use	Area (Acres)	Annual Rental	No.
Agriculture, General . .	104.167	\$ 13,195.00	9
Business	182.669	36,640.00	10
Cane	3,667.500	25,065.00	5
County . . . . .	.158	288.00	1
Eleemosynary . . . . .	.083	225.00	1
Federal	3.515	Gratis	3
Fishpond	—	—	—
Industrial	26.468	204,760.00	23
Pasture	4,785.246	8,805.00	5
Pineapple	—	—	—
Recreational	—	—	—
Residential	—	—	—
Rights of Way	3.418	363.13	11
Waste	—	—	—
Water Licenses, etc. . .	6.250	6,000.00	1
TOTALS	8,779.474	\$295,341.13	69

GENERAL LEASES—SUMMARY, ALL LAND DISTRICTS—June 30, 1970

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	4,414.072	\$ 112,923.89	180
Business	454.901	724,893.96	82
Cane	65,341.064	1,064,684.72	40
County	79.164	1.00	20
Eleemosynary	281.861	16,732.73	20
Federal	42,139.727	6.00	28
Fishpond	51.470	766.40	2
Industrial	14,099.292	469,628.62	74
Pasture	319,525.846	536,762.71	188
Pineapple	578.265	17,119.45	1
Recreational	262.199	1,655.00	6
Residential	128.552	16,925.50	143
Rights of Way	346.269	23,169.67	119
Waste	17,214.197	(¹)122.40	11
Water Licenses, etc.	14,330.430	214,994.00	15
TOTAL	479,747.309	\$3,199,386.05	929

(¹) Included in sugar cane leases.



FIRST LAND DISTRICT Island of Hawaii

GENERAL LEASES—SUMMARY, FIRST LAND DISTRICT, June 30, 1970

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	2,096.682	\$ 36,785.20	35
Business	117.295	140,589.96	44
Cane	16,157.441	187,021.10	26
County	60.388	—	12
Eleemosynary	8.316	3,724.00	4
Federal	24,174.066	—	7
Fishpond	50.870	629.40	1
Industrial	13,931.625	52,309.62	39
Pasture	282,171.059	472,300.26	95
Pineapple	—	—	—
Recreational	241.700	1,050.00	2
Residential	4.255	3,458.50	18
Rights of Way	97.827	11,066.99	37
Waste	733.386	(¹)122.40	5
Water Licenses, etc.	6,198.050	11,032.00	5
TOTALS	346,042.960	\$920,078.43	330

(¹) Included in sugar cane leases.

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

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

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

GENERAL LEASES AND LICENSES—FIRST LAND DISTRICT, JUNE 30, 1970

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
2480	Finance Investment Co., Ltd.	8/25/36- 3/14/2015	Lot 5, Ocean View Lots, South Hilo, Hawaii	.72	bus	\$ 4,234.00
2481	Finance Investment Co., Ltd.	8/25/36- 3/14/2015	Lot 8, Ocean View Lots, South Hilo, Hawaii	.75	bus	4,764.00
2610	Finance Investment Co., Ltd.	6/ 1/39- 3/14/2015	Lot 7, Ocean View Lots, South Hilo, Hawaii	2.95	bus	26,370.00
S-2899	James & Miulan Y. Kealoha	12/29/41- 3/14/2015	Lot 17, Waiakea Warehouse Lots, Waiakea, South Hilo, Hawaii	2.16	bus	9,578.00
S-2908	Matsuno F. Nakagawa	11/ 1/42- 3/31/82	Waiakea, South Hilo, Hawaii	50.87	fpd	629.40
L-2964	Edward C. Hustace	3/15/41-(revokable)	Honuaula Mauka Tract No. 3,		r/w	12.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3029	Nalei Incorporated	9/13/45- 3/14/2015	Kealakehe Mauka Tract, Kalaoa-Ooma Mauka Tract, Makaula-Haleohiu Tract, North Kona, Hawaii	1.190	bus	8,112.00
3155	Kenneth K. Bell & Clara L. Bell	3/15/47- 3/14/2015	Lots 12 & 12A, Ocean View Lots, South Hilo, Hawaii	.160	res	155.00
3156	Tungert L. & Harvey C. Chong	11/18/46- 3/14/2015	Lot 22, Ocean View Lots, 2nd Series, Waiakea, S. Hilo, Hawaii	.170	res	186.00
3157	Robert C. McKeen	11/18/46- 3/14/2015	Lot 23, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.170	res	366.00
3158	Hideo Funada	11/18/46- 3/14/2015	Lot 24, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.170	res	306.00
3160	Hannah Akamu Baker, etal.	11/18/46- 3/14/2015	Lot 25, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.170	res.	141.00
3161	c/o Marguerite B. Frazier	11/18/46- 3/14/2015	Lot 27, Ocean View Lots, Waiakea, South Hilo, Hawaii	.180	res.	299.00
3162	Hannah Akamu Baker, etal.	11/18/46- 3/14/2015	Lot 28, Ocean View Lots Waiakea, South Hilo, Hawaii	.180	res.	163.00
3163	c/o Marguerite B. Frazier	11/18/46- 3/14/2015	Lot 29, Ocean View Lots, 2nd Series, Waiakea, S. Hilo, Hawaii	.180	res	165.00
3164	Kaiva & Josephine Martinson Tuiaosopo	11/18/46- 3/14/2015	Lot 30, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.180	res.	167.00
3165	Electrical Workers Local 1414 Building Trust	11/18/46- 3/14/2015	Lot 31, Ocean View Lots, 2nd Series, Waiakea, S. Hilo, Hawaii	.180	res	169.00
3166	Lily B.L.Y. Wong	11/16/46- 3/14/2015	Lot 32, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.190	res.	170.00
3167	John W. & Adele M. Jensen	3/15/47- 3/14/2015	Lot 33, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.190	res	172.50
3168	William J. & Anna Mehau Payne	9/10/47- 3/14/2015	Lot 34, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.190	res.	185.00
3169	Gaspro, Limited	9/10/47- 3/14/2015	Lot 35, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.190	res	174.00
3170	Ernest M. & Adelaide Cabrinha	9/10/47- 3/14/2015	Lot 36, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.185	res	180.00
3202	Ernest M. & Adelaide Cabrinha	5/ 1/47-11/ 1/2017	Lot 37, Ocean View Lots, 2nd Series, Waiakea, South Hilo, Hawaii	.880	res	50.00
3265	Frank Ferreira	6/ 1/49- 3/14/2015	Lots 134 and 135, Lehia Park Res. Lots, South Hilo, Hawaii	.586	bus	2,981.00
3266	Hilo Bay Hotel, Inc.	8/10/49- 3/14/2015	Lot 2, Ocean View Lots, Waiakea, South Hilo, Hawaii	.531	bus	2,716.00
3267	Hilo Bay Hotel, Inc.	6/ 1/49- 3/14/2015	Lot 3, Ocean View Lots, Waiakea, South Hilo, Hawaii	.500	bus	3,252.00
3268	Hilo Bay Hotel, Inc.	6/ 1/49- 3/14/2015	Lot 4, Ocean View Lots, Waiakea, South Hilo, Hawaii	.749	bus	4,894.00
3269	Finance Investment Co., Ltd.	6/ 1/49- 3/14/2015	Lots 5 & 6, Ocean View Lots, Waiakea, South Hilo, Hawaii	.920	bus	9,180.00
3330	Mand Associates, Inc.	11/12/49-11/11/70	Lot 10, Ocean View Lots, Waiakea, South Hilo, Hawaii	.920	bus	250.00
3332	Mana Transportation Co., Ltd.	11/12/49-11/11/70	Lots 1 & 3, Blk. 40, Waiakea House Lots, 1st Series, South Hilo, Hawaii	38.840	past	15.00
3333	Julia Toledo	11/12/49-11/11/70	Parcels 4 & 7, T.M.K. 3-4-01, 3rd Division, Waikaumalo-Maulua Homesteads, North Hilo, Hawaii	131.080	past	781.48
3334	William K. Kamau, Sr.	11/12/49-11/11/70	Lots 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 20A, Waiakea, South Hilo, Hawaii	4.367	past	11.42
3335	Norman Brand	11/12/49-11/11/70	Gov's remnant at Ahualoa, Hamakua, Hawaii	1,458.140	past	326.00
3336	Dillingham Investment Corp.	11/12/49-11/11/70	Gov't. Land of Honomalino & Okoe, South Kona, Hawaii	59.240	past	97.00
3338	George Henry & Richard Adam Ignacio	11/12/49-11/11/70	Parcels 10 & 12, T.M.K. 3-4-01, 3rd Division, Waikaumalo-Maulua Homesteads, North Hilo, Hawaii	.010	bus	20.00
3339	Hilo Electric Light Co., Ltd.	11/12/49-11/11/70	Portion of Gov't. land situate west Kinoole St., Waiakea, S. Hilo, Hawaii	.450	bus	120.00
3340	M. C. Child	11/12/49-11/11/70	Lot 2, Blk. 39, Waiakea House Lots, South Hilo, Hawaii	1,091.00	past	450.00
L-3341	Norman N. Inaba	11/12/49-11/11/70	Kaulanamauna Kipuka, Meauka Kipuka, Kau, South Kona, Hawaii	40.00	r/w	20.00
3343	Hawaiian Telephone Company	11/12/49-11/11/70	Piihonua, Humuula, Kaohe III & V, Waiakea-Uka, Maunakea & Kaumana, Hilo, Hawaii	259.49	past	135.00
3344	John Rapoza, Sr.	4/10/50- 4/ 9/71	Waiakea, South Hilo, Hawaii	319.60	past	80.00
3345	Martin J. Branco	4/10/50- 4/ 9/71	Waiakea, South Hilo, Hawaii	40.00	past	210.00
3347	Alfred R. Menino	4/10/50- 4/ 9/71	Lot 907, Waiakea Homesteads, Waiakea, South Hilo, Hawaii	.056	bus	12.00
	Hilo Electric Light Co., Ltd.	4/10/50- 4/ 9/71	Portion of Lot 615-B, Waiakea Homesteads, Waiakea, South Hilo, Hawaii			

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
L-3350	C. Brewer & Co., Ltd.	7/ 1/50- 6/30/71	Pahala, Kau, Hawaii			
L-3351	C. Brewer & Co., Ltd.	7/ 1/50- 6/30/71	Naalehu, Kau, Hawaii	322.44	wtr	1,800.00
L-3353	Richard Smart	1/ 1/52-12/31/72	Honokaia, Part 1, Hamakua, Hawaii		wtr	1,200.00
3354	Honokaa Sugar Co.	1/ 1/52-12/31/72	Gov't. Remainers of Papaki, Koloaha	738.00	past	7,570.00
			Au 1st, Hamakua, Hawaii	31.69	cane	779.33
3355	Richard Smart	1/ 1/52-12/31/72	Kaohe, Kaohe III Sec., A-1, Hamakua, Hawaii	17.66	past	125.25
				1,202.00	past	7,000.00
3356	Richard Smart	1/ 1/52-12/31/72	Por. Land of Haleaha & Puukapu, South Kohala, Hawaii	416.00	past	5,000.00
3357	Richard Smart	1/ 1/52-12/31/72	Por. HHL of Pauahi, South Kohala, Hawaii	555.45	past	7,000.00
3358	Kahua Ranch, Ltd.	1/ 1/52-12/31/72	Waimea, South Kohala, Hawaii	9,899.370	past	40,352.44
3359	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Kaohe-VI, Hamakua, Hawaii	3,110.00	past	12,600.00
3360	C. Brewer & Co., Ltd.	1/ 1/52-12/31/72	Parcel 2, Kaalaala Makai, Kau, Hawaii	1,777.000	past	400.00
3361	Richard Smart	1/ 1/52-12/31/72	Part 3, Por. of Gov't. Land of Hono-Kaia, Hamakua, Hawaii	508.00	past	7,100.00
3362	Anna Ranch	1/ 1/52-12/31/72	Puukapu Pasture Lot No. 9, South Kohala, Hawaii	333.81	past	3,005.88
3363	C. Brewer & Co., Ltd.	1/ 1/52-12/31/72	Kamooa-Puueo Tract, Kau, Hawaii	10,289.28	past	35,038.72
3364	Richard Smart	1/ 1/52-12/31/72	Gov't. Crown Land of Honokaia, Hamakua, Hawaii	739.00	past	8,800.00
3366	Richard Smart	1/ 1/52-12/31/72	Puu Kawaiwai, Panoluukia, Kapia, Waimea, South Kohala, Hawaii	2,978.03	past	16,200.00
3367	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Kaohe II, Hamakua, Hawaii	7,932.36	past	40,700.00
3369	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Hoea & Kaao, Hamakua, Hawaii	1,902.00	past	16,000.00
3370	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Portion of Gov't. Remainder of Niupea, Hamakua, Hawaii	66.00	past	40.00
3371	Richard Smart	1/ 1/52-12/31/72	Kalopa, Hamakua, Hawaii	6,080.00	past	42,200.00
3373	Richard Smart	1/ 1/52-12/31/72	Kipi-Kehene 1st, North Kohala, Hawaii	107.00	past	300.00
3374	Richard Smart	1/ 1/52-12/31/72	Por. Puukapu Pasture Lot No. 10, South Kohala, Hawaii	2,376.32	past	10,500.00
3375	Richard Smart	1/ 1/52-12/31/72	Honokaa, Part 4, Hamakua, Hawaii	508.00	past	8,600.00
3376	C. Brewer & Co., Ltd.	1/ 1/52-12/31/72	Por. Gov't. Land of Kapapala, Kau, Hawaii	36,873.020	past	63,649.53
3377	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Parcel 1, Kaohe II, Hamakua, Hawaii	675.320	cane	
3378	Richard Smart	1/ 1/52-12/31/72		7,780.00	past	42,000.00
3379	Richard Smart	1/ 1/52-12/31/72	Portion Land of Momoualoo, Waimea, South Kohala, Hawaii	391.00	past	7,800.00
3380	Richard Smart	1/ 1/52-12/31/72	Kaoniki, Kauniho, Lalamilo, Puukapu, Waimea, South Kohala, Hawaii	332.307	past	7,581.50
3381	Richard Smart	1/ 1/52-12/31/72	Honokaia, Part 5, Hamakua, Hawaii	768.477	past	12,200.00
			Lalamilo, Waimea, South Kohala, Hawaii	1.961	past	45.32
3382	Kukaiau Ranch Co., Ltd.	1/ 1/52-12/31/72	Por. Gov't. Remainder Manowaialee, Hamakua, Hawaii	162.00	past	1,000.00
3412	Sure Save Super Market, Limited	4/ 7/52- 4/ 6/73	Kamehameha Avenue & Kalanikoa Ave., Waiakea, South Hilo, Hawaii	.80	bus	1,062.00
3414	Robert M. & Emma L. Yamada	4/ 7/52- 4/ 6/73	Lots 10, 11-A & 11-B, Kaimu-Makena Homesteads, Puna, Hawaii	177.55	agr	50.00
3419	Hawaiian Fern Wood, Ltd.	6/ 1/52- 5/31/73	Waiakea, South Hilo, Hawaii	1.24	ind	1,500.00
3420	Richard & Juliette S. Furtado	6/ 1/52- 5/31/73	Kilauea & Piopio St., South Hilo, Hawaii	.24	bus	125.00
3424	H. Harada Contractor, Inc.	6/ 1/52- 5/31/73	Lot 6 & 8, Blk. 40, Waiakea House Lots, 1st Series, South Hilo, Hawaii	1.02	ind	250.00
3425	James R., Edward R., Yasuo & Yoshinobu Kuwaye, dba Edward R. Kuwaye & Co.	6/ 1/52- 5/31/73	Lot 14, Blk. 48, Waiakea House Lots Extension at Waiakea, South Hilo, Hawaii	.60	ind	300.00
3426	Chieno, Masaru & Chitoshi Doi	6/ 1/52- 5/30/73	Kawaihae 1, Kawaihae Village, South Kohala, Hawaii	.572	res	200.00
3427	Hilo Metals Co., Ltd.	4/ 7/52- 4/ 6/73	Lots 2 & 4, Blk. 40, Waiakea House Lots, 1st Series, South Hilo (Waiakea, Hawaii)	.70	ind	250.00
3428	Maurice & Molly D. Zimring	6/ 1/52- 5/30/73	Lot 11, Keaukaha Seaside Lots, Waiakea, South Hilo, Hawaii	.27	res	230.00
3431	Richard Smart	10/ 1/52- 9/30/73	Kaohe III, Section B, Hamakua Hawaii	1,762.936	past	600.00
3432	Palani Ranch Co., Inc.	10/ 1/52- 9/30/73	Lots 1 to 20, Kealakehe Homesteads, 2nd Series, North Kona, Hawaii	687.56	past	773.58
3433	Dillingham Investment Corp.	4/ 8/53- 4/ 7/74	Honomalino-Hoopuloo Mauka Tract, South Kona, Hawaii	2,717.924	past	1,000.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3434	Richard Smart	12/20/52-12/19/73	Keanuio mano, Puuiki & Waikoloa Iki, Waimea, South Kohala, Hawaii	437.00	past	2,200.00
3435	Honomalino Agricultural Co., Inc.	7/ 3/52- 7/ 2/73	Kaulanamauna, South Kona Hawaii	2,095.54	past	425.00
3436	Richard Smart	10/ 1/52- 9/30/73	Kaohe III, Section A-2, Hamakua, Hawaii	101.40	past	85.00
L-3437	Hawaiian Trust Co., Ltd.	7/ 3/52- 7/ 2/73	Parcels 1 & 2, of Gov't. Land of Lalamilo, South Kohala, Hawaii	.08	r/w	12.00
3438	Richard Smart	7/ 1/53- 6/30/74	Parcel 1, Por. of Humuula (Keanakolu Paddocks), North Hilo, Hawaii	5,290.00	past	16,000.00
3439	Richard Smart	7/ 1/53- 6/30/74	Parcel 2, Por. of Humuula (Hopuwai Paddock), North Hilo, Hawaii	7,512.80	past	14,000.00
3440	Richard Smart	7/ 1/53- 6/30/74	Parcel 3, Por. of Humuula, Kaohe (Kole & Laumaia Paddocks), North Hilo, Hawaii	20,377.317	past	18,000.00
3441	Richard H. Jose	7/ 1/53- 6/30/74	Laupahoe hoe Mauka, Laupahoe hoe, North Hilo, Hawaii	110.00	past	915.00
3442	C. Brewer & Co., Ltd.	7/ 1/53- 6/30/74	Parcels A & B and Ninole Gov't. Fish Pond, Kau, Hawaii	332.56	past	520.00
3443	C. Brewer & Co., Ltd.	7/ 1/53- 6/30/74	Parcels 1 & 2, Kaunamano Homesteads, Kau, Hawaii	477.16	past	930.00
3444	C. Brewer & Co., Ltd.	7/ 1/53- 6/30/74	Wailau Gov't. Remainder Kau, Hawaii	345.80	past	200.00
3445	Laupahoe hoe Sugar Company	12/29/52-12/28/73	Laupahoe hoe, North Hilo, Hawaii	11.79	past	205.00
3446	Joaquin Ramos	7/ 1/53- 6/30/74	Lots 92, 93 & 94, Olaa New Tract Lots, Olaa, Puna, Hawaii	150.00	past	50.00
3449	C. Brewer & Co., Ltd.	12/29/52-12/28/73	Parts 1 & 2, Por. of Moaula-Kopu-Makaka, Makai, Kau, Hawaii	2,376.85	past	1,025.00
L-3453	Laupahoe hoe Sugar Company	10/ 1/53 9/30/74	Papaaloa, Manowaiopae & Kihalani Homestead Tracts & por. of Laupahoe hoe, North Hilo, Hawaii		r/w	12.00
L-3454	Hilo Electric Light Co., Ltd.	10/ 1/53- 9/30/74	Honokaia, Kapolena, Kamoku & Puukapu, Waimea, South Kohala, Hawaii		r/w	100.00
L-3455	Kohala Sugar Company	10/ 1/53- 9/30/74	Kahei Mauka, Section A, Kahei Makai, Section B, Hualua Middle, Section B; Hualua Makai, Section B & Awalua Haena, North Kohala, Hawaii	24.52	r/w	72.12
L-3456	Hilo Electric Light Co., Ltd.	10/ 1/53- 9/30/74	Waiakea, South Hilo, Hawaii	.085	r/w	12.00
L-3457	Standard Oil Co. of California	10/ 1/53- 9/30/74	Waiakea-Kai South Hilo, Hawaii	.21	r/w	12.00
3472	Honokaa Sugar Company	4/ 9/54- 4/ 8/75	Keaa-Mauka Tract, Hamakua, Hawaii	53.70	past	389.20
3473	Joseph L. Ventura	1/ 1/55-12/31/75	Parcel A, Piihonua Pasture Land, South Hilo, Hawaii	195.05	past	200.00
3475	George R. & Clifford A. Freitas	1/ 1/55-12/31/75	Por. of Lot 22-D-1 of Pohakulua Tract, North Kohala, Hawaii	83.21	past	1,400.00
3479	Hilo Metals Co., Ltd.	6/ 1/54- 5/31/75	Waiakea, South Hilo, Hawaii	1.42	ind	350.00
3480	Laupahoe hoe Sugar Co.	4/ 9/54- 4/ 8/75	Por. of Pali & Gulch, Papaaloa Homesteads, North Hilo, Hawaii	6.00	wtr	31.00
3481	The Flintkote Company	6/ 1/54- 5/31/75	Waiakea Fish Pond, Waiakea, South Hilo, Hawaii	24.61	wtr	1.00
3482	Clarence J. Branco	4/ 9/54- 4/ 8/75	Lots 812-A, 912-A & 913, Waiakea Homesteads, 2nd Series, S. Hilo, Hawaii	92.681	past	1,194.10
3483	James R., Edward R., Yasuo & Yoshinobu Kuwaye, dba Edward R. Kuwaye & Copany	6/ 1/54- 5/31/75	Lot 15, Corner of Kamehameha Ave. & Kalanikoa St., Waiakea, South Hilo, Hawaii	.60	ind	300.00
3506	Charles L. Murray	9/10/54- 9/ 9/75	Lot A, Corner of Kamehameha Ave., Kalanikoa St., Waiakea, South Hilo, Hawaii	.47	bus	838.00
3507	Anthony M. Phillips, dba Phillips U-Drive	11/10/54-11/ 9/75	Lot B, Kamehameha Ave. between Kalanikoa & Kanoelehua St., Waiakea, South Hilo, Hawaii	.34	bus	400.00
3508	Anna L. Perry-Fiske	11/10/54-11/ 9/75	Lot 11, Lalamilo House Lots, 3rd Series, Lalamilo, So. Kohala, Hawaii	.28	past	12.00
3509	William K. Thompson	11/10/54-11/ 9/75	Por. of Pahoe hoe 1-4, Maunaoui, Haleili, Haukalua 1-2, Alae 1-2, Pahoe hoe 1, South Kona, Hawaii	1,067.50	past	150.00
3511	Hutchinson Sugar Co., Ltd.	1/ 1/55-12/31/69	Kaunamano Homesteads & Section 2, K, Kawala Kaunamano Tract, Kau Hawaii	454.10 662.50 4.60 11.00	cane past r/w waste	2,134.27 1,056.90 8.40 1.10
L-3521	Shell Oil Co., Union Oil Co. of Calif., & Phillips Petroleum Co.	6/ 7/55- 6/ 6/76	Waiakea-Kai, Hilo, Hawaii	.12	r/w	12.00
L-3528	Volcanite, Limited	11/ 8/55-11/ 7/76	Puuwaawaa Quarry Hill Puuwaawaa, Hawaii	506.126	ind	1,000.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3529	Sure Save Super Market, Ltd.	11/ 8/55-11/ 7/76	Waiakea, South Hilo, Hawaii	.59	bus	300.00
3530	Tsuruyo Oda	11/ 8/55-11/ 7/76	Waiakea, South Hilo, Hawaii	2.532	agr	120.00
3531	Toshiro Kataoka	11/ 8/55-11/ 7/70	Lot 63, Ponahawai, House Lots, Ponahawai, South Hilo, Hawaii	2.07	agr	24.00
3532	Benso Yamanouchi	11/ 8/55-11/ 7/76	Lot 12, Kaumana House Lots, Kaumana, South Hilo, Hawaii	.16	agr	12.00
3533	Honolulu Roofing Co., Ltd.	11/ 8/55-11/ 7/76	Lot 9, Keaukaha Seaside Lots, Waiakea, South Hilo, Hawaii	.42	res	180.00
3534	Thomas R. Araujo	11/ 8/55-11/ 7/76	Piihonua, South Hilo, Hawaii	2.67	past	24.00
3566	C. Brewer & Co., Ltd.	10/25/56-10/24/77	Por. Section "A", Kaalaala-Makakupu	67.55	cane	680.30
				.48	waste	
				1,354.17	past	300.00
				1,422.20		980.30
3567	E.L. Wung's Ranch, Ltd.	10/25/56-10/24/77	Lots 338 & 339, Olaa Reservation	100.00	past	100.00
3569	Oda Orchids, Inc.	10/25/56-10/24/77	Lots 2, 4, 6, 8, 10 & 12, Blk. 30, Waiakea House Lots, 1st Series, Waiakea, South Hilo, Hawaii	3.10	agr	100.00
3570	Kohala Sugar Company	10/ 1/57- 9/30/72	Opihipau-Hukiaa, Kalei & Hualua, Hawaii	1,103.000	cane	8,408.17
				132.506	ele	1,010.09
				11.000	past	55.00
				62.025	waste	62.03
				1,308.531		9,535.29
3571	Sure Save Super Market, Ltd.	8/1156- 4/ 6/73	Gov't. Lot, Kamehameha Avenue Waiakea, South Hilo, Hawaii	.377	bus	650.00
3573	Hawaii Broadcasting System, Ltd.	11/ 8/58-11/7 79	Humuula, North Hilo, Hawaii	2.038	bus	100.00
L-3574	Jas. W. Glover, Ltd.	8/11/59- 8/10/80	Waiakea, South Hilo, Hawaii	74.314	ind	2,594.62
3575	Honpa Hongwanji Mission of Hawaii	8/11/58- 8/10/79	Lots 7 & 8, Waiakea Cane Lots, Waiakea, South Hilo, Hawaii	38.58	past	139.86
L-3576	Union Oil Co., of California	9/10/58- 9/ 9/79	Gov't. Land of Waiakea, South Hilo, Hawaii	.12	r/w	120.00
3583	Robert M. Yamada	11/ 5/59-11/ 4/2004	Lots 4, 6, 7, 8, Blk. 39; Lots 5 & 7, Blk. 40, Waiakea Lots, Waiakea, South Hilo, Hawaii	2.57	bus	900.00
3584	Pepeekeo Sugar Company	2/ 1/60-12/31/89	Gov't. Lands of Kamaee-Wailua & Puuoha, North Hilo, Hawaii	548.75	cane	3,010.37
3585	Pepeekeo Sugar Company	2/ 1/60-12/31/89	Hononu-Hukua, Kaakepa & Kaupakuea, South Hilo, Hawaii	907.93	cane	6,975.10
3586	Mauna Kea Sugar Co., Inc.	2/ 1/60-12/31/89	Kawainui, South Hilo, Hawaii	191.00	cane	1,403.05
3587	Paauihau Sugar Co., Ltd.	2/ 1/60-12/31/89	Kaunamano, Hamakua, Hawaii	32.10	cane	210.00
3589	Dillingham Investment Corp.	8/15/60- 8/14/2000	Gov't. Lands of Puuanahulu & Puuwaawaa, North Kona, Hawaii	105,796.58	past	30,000.00
S-3590	Texaco, Inc.	3/ 1/60- 2/28/85	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	2.66	ind	8,500.00
S-3591	Isamu Kanekuni & George T. Inouye, dba Veterans Produce Exchange	1/16/61- 1/15/2016	Lot 42, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.35	ind	560.00
S-3592	Hiroaki Kono, dba Hilo Transportation Co.	1/16/61- 1/15/2016	Lots 6 & 15, Waiakea Business & Industrial Lots, South Hilo, Hawaii	.78	ind	1,220.00
S-3593	Automotive Supply Center, Ltd.	1/16/61- 1/15/2016	Lot 38, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.38	ind	576.00
S-3594	Broto's Body & Fender, James Broto Toledo	1/16/61- 1/15/2016	Lot 15, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.22	ind	400.00
S-3595	Harry's Refrigeration Service	1/16/61- 1/15/2016	Lot 18, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
S-3596	Isao Morimoto, dba Mori's Paint Shop	1/16/61- 1/15/2016	Lot 37, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.38	ind	605.00
S-3597	William Aiona, Jr. dba Family Liquor Store	1/16/61- 1/15/2016	Lot C-1, Kamehameha Business Lots, Waiakea, South Hilo, Hawaii	.34	bus	1,110.00
S-3598	Honolulu Roofing Co., Ltd.	1/16/61- 1/15/2016	Lot 17, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
S-3599	Kaneko Jelly, Ltd.	1/16/61- 1/15/2016	Lot 22, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.77	ind	1,015.00
S-3600	Durant Realty Co., Ltd.	1/16/61- 1/15/2016	Lot 29, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.34	ind	585.00
S-3601	Edward Hamilton Inman	1/16/61- 1/15/2016	Lot 33, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.78	ind	828.00
S-3602	Hawaii Pest Control Co.	1/16/61- 1/15/2016	Lot 40, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.36	ind	570.00
S-3603	Harders Company, Ltd.	1/16/61- 1/15/2016	Lot 41, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.29	ind	460.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3604	Walter Kiyoshi Hamai, dba W.K. Hamai Repair Shop	1/16/61- 1/15/2061	Lot 46, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	440.00
S-3606	Hilo Kala, Inc.	1/16/61- 1/15/2016	Lot 28, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.34	ind	575.00
S-3609	Hawaii Transportation Co., Ltd.	1/16/61- 1/15/2016	Parcel II, Waiakea Bus. & Indus. Lots, South Hilo, Hawaii	2.36	ind	3,085.00
S-3611	Hawaii Planing Mill, Ltd.	1/16/61- 1/15/2016	Parcel IV, Waiakea Bus. & Indus. Lots, South Hilo, Hawaii	2.33	ind	3,660.00
S-3612	Hamakua Mill Co.	2/ 1/61- 1/31/91	Gov't. Land of Hoea-Kaao, Makai Tract, Hamakua, Hawaii	1,078.13	cane	7,077.76
S-3613	Laupahoe Sugar Company	2/ 1/61- 1/31/91	Gov't. Lands at Humuula & Kahoahuna, North Hilo, Hawaii	1,176.07	cane	7,444.58
S-3614	Laupahoe Sugar Company	2/ 1/61- 1/31/91	Niuepa-Kealakaha Gov't. Tracts & Gov't. Land at Kaala, Hamakua, Hawaii	655.60	cane	4,464.29
S-3615	Laupahoe Sugar Company	2/ 1/61- 1/31/91	Gov't. Lands of Ookala-Manowaialee, North Hilo & Hamakua, Hawaii	1,368.44	cane	9,781.49
S-3616	Laupahoe Sugar Company	2/ 1/61- 1/31/91	Kaiaakea Makai Gov't. Remainder, North Hilo, Hawaii	80.08	cane	580.99
S-3617	Honokaa Sugar Co.	2/ 1/61- 1/31/91	Kaao-Paalea Gov't. Tract, Hamakua	434.74	cane	3,075.88
S-3618	Hilo Body Service, Ltd.	2/ 6/61- 2/ 5/2016	Lot 34, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.78	ind	1,015.00
S-3619	Gordon M. Ishii dba No D Lay Top Shop	2/ 6/61- 2/ 5/2016	Lot 39, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.32	ind	510.00
S-3620	Shoichi Muramoto, dba Mura's Repair Shop	2/ 6/61- 2/ 5/216	Lot 44, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.60	ind	1,165.00
S-3621	Hawaiian Grocery Stores, Ltd.	2/24/61- 2/23/2016	Lot 32, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.90	ind	1,170.00
S-3622	Satoru Amano dba Amano Fish Cake Factory	3/20/61- 3/19/2016	Lot 27, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.32	ind	545.00
S-3624	Castle & Cooke, Inc.	3/ 6/61- 3/ 5/2016	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	4.50	ind	5,880.00
S-3631	A & A Hawaii, Inc.	3/20/61- 3/19/2016	Lot 11, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.24	ind	410.00
S-3632	Hilo Draying Co., Ltd.	3/20/61- 3/19/2016	Lot 3, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	1.56	ind	2,000.00
S-3653	Heiji Muneno dba Cabby's Union Service	3/20/61- 3/19/2016	Lot 13, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.26	ind	540.00
S-3654	Kohala Sugar Co.	11/ 8/61-11/ 7/91	Por. of bottom lands of Pololu Valley, Pololu, North Kohala, Hawaii	141.00	cane	325.00
S-3655	Antonio R. Salcedo, Alfred Ruis & Don Winters, dba Triangle 3	2/11/62- 2/10/82	Remainder of Honuaula Mauka Tract 3, Honuaula, Kona & Lot 4, Hienaloli 1st, North Kona, Hawaii	2,963.83	past	10,000.00
S-3656	Richard Smart	8/11/61- 8/10/81	Por. of Puukole-Koae Mauka Tract, North Kohala, Hawaii	168.59	past	2,550.00
S-3657	Richard Smart	8/11/61- 8/10/81	Pohakuloa Mauka Gov't. Tract, Pohakuloa & Kalaha 1st, N. Kohala, Hawaii	191.35	past	750.00
S-3658	Richard Smart	8/11/61- 8/10/81	Por. of Kapaa Makai Gov't. Lots, North Kohala, Hawaii	53.55	past	83.68
S-3659	Arthur Botelho	8/11/61- 8/10/81	Por. Gov't. Land in Kilau Gulch, Manowaiopae Homesteads, Kilau, North Hilo, Hawaii	27.30	past	61.00
S-3660	Katsumi Sakai dba K. Sakai Painting Contrator	3/20/61-3/19/2016	Lot 9, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.28	ind	468.00
S-3662	Mauna Kea Sugar Co., Inc.	8/16/61- 8/15/91	Piihonua, South Hilo, Hawaii	1,195.64 162.97 14.33 603.68	cane cane past waste	10,760.76 162.97 35.83 60.37
				1,976.62		11,019.93
S-3669	Jack Yasuo & Sue Morimoto Ota	3/20/61- 3/19/2016	Lot C, Hoolulu Business Lots, Waiakea, South Hilo, Hawaii	.69	bus	1,110.00
S-3670	Machida, Inc.	3/20/61- 3/19/2016	Lot 30, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.35	ind	585.00
S-3688	Richard S. Miyashiro dba Cafe 100	3/20/61- 3/19/2016	Por. Gov't. Land of Waiakea, South Hilo, Hawaii	.57	bus	1,800.00
S-3696	Hawaiian Telephone Company	1/26/62- 1/25/83	Puumaile Home Site, Waiuli, Waiakea, South Hilo, Hawaii	1.00	r/w	30.00
S-3697	Hawaiian Telephone Company	1/26/62- 1/25/83	Humuula, North Hilo, Hawaii	10.558	r/w	20.00
S-3698	Bank of Hawaii	1/26/62- 1/25/2017	Lot 7, Resubdivision of Blk. 47, Waiakea House Lots, Waiakea, South Hilo, Hawaii	.687	bus	2,064.00
S-3716	Masaru Shindo, dba Hilo Soda Works	10/29/62-10/28/2017	Lot 1-A, Kanoelehua Industrial Lots, South Hilo, Hawaii	.56	bus	851.40
S-3718	Hilo Auto Electric & Carburetor Service	6/28/63- 6/27/2018	Lot 12, Kanoelehua Industrial Lots, Waiakea, South Hilo, Hawaii	.258	bus	587.00
S-3719	Hawaii Planters, Inc.	1/28/63- 1/27/83	Hulunani, Kaunaloa & Ki, Puna (Parts A & B), Puna, Hawaii	648.62	past	150.00
S-3720	Carl Meyer	1/28/63- 1/27/83	Lots 374, 381 & Por. Lots 373, 379, 380, 382, Olaa Reservation Lots, Puna, Hawaii	227.73	past	575.00

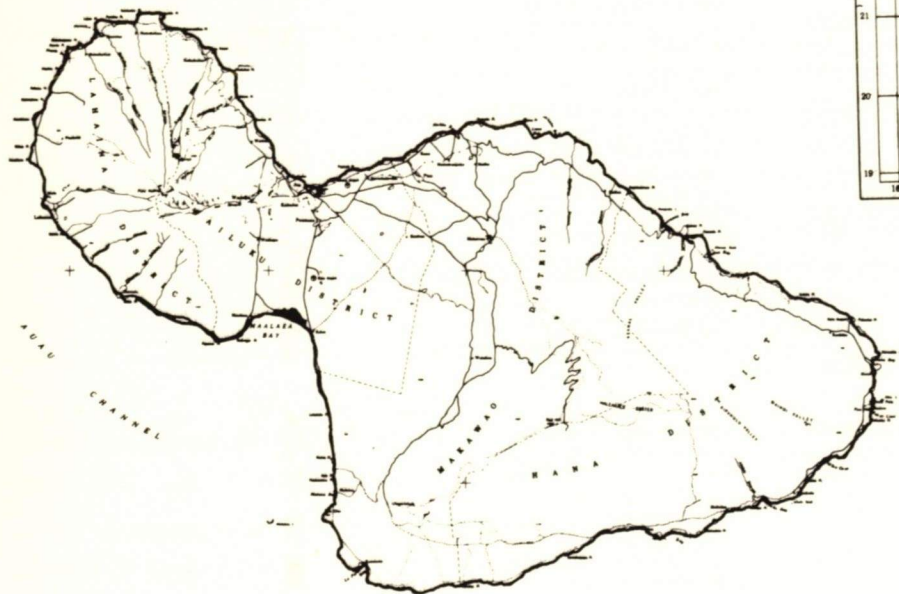
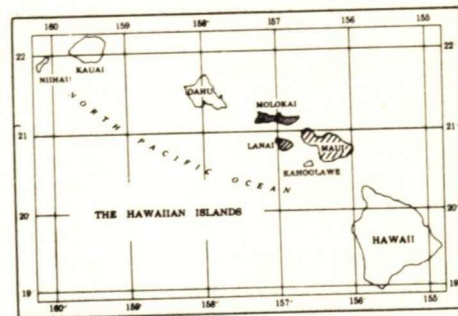
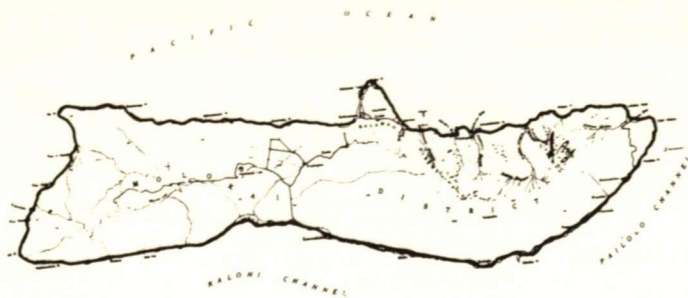
No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3721	Raymond M. Kobayashi	11/30/62-11/29/72	Camp Sites 9 & 9-A, Waiakea Home- steads, 2nd Series, South Hilo, Hawaii	1.74	past	30.00
S-3722	Hawaii Baptist Convention	11/30/62-11/29/2017	Por. Lot 5-C, Waiakea Cane Lots, South Hilo, Hawaii	1.00	ele	780.00
S-3723	S.K. Oda, Limited	11/30/62-11/29/2017	Por. Gov't. Land of Waiakea (West Kalanikoa St., between, Kuawa & Kawelolani Sts., South Hilo, Hawaii	1.934	ind	2,781.00
S-3729	Hubert S. Andrews, dba Andrews Trucking Service	8/23/63- 8/22/2018	Lot 10, Kanoolehua Industrial Lots, Waiakea, South Hilo, Hawaii	.241	ind	572.00
S-3731	County of Hawaii, Board of Water Supply	7/ 1/64- 6/30/2029	Mountain View Water System, Land Site #1, Puna, Hawaii	.18	cty	Gratis
S-3732	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Kaumana (Kaumana Cave), Hilo, Hawaii		cty	Gratis
S-3738	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Pahoa (Pahoa Cave), Puna, Hawaii	.04	cty	Gratis
S-3739	County of Hawaii, Civil Defense & Disaster Relief Agency	3/29/63- 3/28/2013	Malana (Mackenzie Cave), Puna, Hawaii		cty	Gratis
S-3740	Masao, Hiroji & Seichi Ochi	3/ 1/63- 2/28/2018	Waiakea, South Hilo, Hawaii	.670	bus	1,956.00
S-3742	Edward R., James R., Yasuo, Yoshinobu Kuwaye, dba Edward R. Kuwaye & Co.	11/12/63-11/11/2018	Lots 8 to 13, inclusive, Waiakea Industrial Lots, S. Hilo, Hawaii	2.00	ind	4,425.00
S-3744	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63- 4/25/2013	Puuanahulu Cave, North Kona, Hawaii		cty	Gratis
S-3745	County of Hawaii, Civil Defense & Disaster Relief Agency	4/26/63- 4/25/2013	Pigeon Cave, Puuanahulu Mauka, North Kona, Hawaii		cty	Gratis
S-3746	Hilo Salvage Co., Ltd.	4/19/63- 4/18/2018	Lot 16, Keaukaha Seaside Lots, Waiakea, South Hilo, Hawaii	.66	bus	390.00
S-3750	Jiro Tanaka, dba Tanaka Electrical Service	4/26/63- 4/25/2018	Lot 8, Kanoolehua Industrial Lots, Waiakea, South Hilo, Hawaii	.272	bus	622.00
S-3751	County of Hawaii Hilo Hospital Complex & Allied Facilities	6/ 7/63- 6/ 6/2028	Piihonua, South Hilo, Hawaii	22.453	cty	Gratis
S-3752	United States of America (U.S. Navy)	12/16/63-12/15/2028	Kamaoa, Kau, Hawaii	21.296	fed	Gratis
S-3834	Board of Water Supply	4/24/64- 4/23/2029	Under & across Por. of Hamakua Water Reserve, Ahualoa Section, inc. in County's Ahualoa-Kaapahu- Pohakea Water System, Hamakua, Hawaii	.643	cty	Gratis
S-3836	Tsuruyo Oda	6/16/64- 6/15/2019	Waiakea, north corner of Kilauea St. & Volcano Rd., South Hilo, Hawaii	7.855	bus	565.56
S-3837	Hongo Nursery, Inc.	6/16/64- 6/15/2019	Lot 18, Blk. 601, Waiakea, Home- steads, 1st Series, South Hilo, Hawaii	10.00	bus	438.00
S-3839	United States of America (Army)	4/10/64- 4/ 9/74	Tract A, Hilo Breakwater Project, South Hilo, Hawaii	2.60	fed	Gratis
S-3844	University of Hawaii	7/24/64- 7/23/2029	Hamakua experiment farm, Kaohe, Hawaii	185.00	agr	Gratis
S-3849	U.S.A. (Army)	8/17/64- 8/16/2029	Pohakuloa Training Area, Hawaii	22,971.00	fed	Gratis
S-3853	U.S.A. (Army)	8/21/64- 8/20/2029	Pohakuloa water license easements		fed	Gratis
S-3855	County of Hawaii	10/11/63-10/10/2028	Kukuau 2nd & Waiakea, South Hilo	2.00	cty	Gratis
S-3862	Ryoji Sumida	6/10/64- 6/ 9/2019	Waiakea, South Hilo, Hawaii	.65	bus	2,845.00
S-3865	County of Hawaii, Board of Water Supply	8/28/64- 8/27/2029	Utility easements at Panaewa, South Hilo, Hawaii	.18	cty	Gratis
S-3867	Manuel Sousa	10/28/64-10/27/84	Lot 1-A, Paaui-Pohakea Reserve Lots	4.54	past	45.00
S-3868	Kahua Ranch, Ltd.	10/28/64-10/27/84	Makiloa Gov't. Tract North Kohala, Hawaii	138.00	past	605.00
S-3869	Koei Ishimine	12/26/64-12/25/84	Lot 8, Puuepa-Kokoiki Homesteads, North Kohala, Hawaii	7.98	cane	120.00
S-3870	William E. Ontai	10/28/64-10/27/94	Lots 2, 3, 5, Papa Homesteads, South Kona, Hawaii	21.18	agr	180.00
S-3872	Waimanu, Inc.	1/23/65- 1/22/95	North Kohala, Hawaii	3.700	rec	900.00
S-3874	Cap Weld Tire & Service, Inc.	12/18/64-12/17/2019	Kilauea Avenue, Hilo, Hawaii	.549	bus	1,650.00
S-3875	Feed-Well, Inc.	8/12/66- 8/11/2021	Kahema Street, Hilo, Hawaii	.689	ind	1,800.00
S-3886	Palekoki Ranch, Inc.	1/20/65- 1/19/85	Por. of Lands of Lalamilo, Ouli & Waiakea I, Waimea, South Kohala, Hawaii	9,154.00	past	\$ 3,900.00
S-3887	Hilo Electric Light Co., Ltd.	1/20/65- 1/19/95	Por. of H.H.L. of Humuula, North Hilo, Hawaii	6.583	r/w	180.00
S-3888	Hawaiian Telephone Company	1/20/65- 1/19/2030	Lots 15 & 16, Blk. 39, Waiakea House Lots, South Hilo, Hawaii	.896	ind	2,130.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3908	Tradewind Resorts, Inc.	4/12/65- 4/11/2030	Lot 13, Ocean View Lots, Waiakea, South Hilo, Hawaii	2.319	bus	15,000.00
S-3909	Alfred A. Silva	4/12/65- 4/11/85	Lot 15-B, Kaauhuhu Homesteads, North Kohala, Hawaii	6.41	agr	96.00
S-3916	County of Hawaii, Board of Water Supply	10/30/64-10/29/2029	Panaewa, Waiakea, South Hilo, Hawaii	.204	cty	Gratis
S-3925	Hilo Electric Light Co., Ltd.	8/27/65- 8/26/2030	Lot 16, Kanoelehua Industrial Lots, South Hilo, Hawaii	4.00	r/w	7,566.00
S-3927	Hilo Electric Light Co., Ltd.	9/24/65- 9/23/95	Por. of Gov't. Land of Kaohe, Hamakua, Hawaii	.88	bus	120.00
S-3929	Sun Sun Lau, Ltd.	8/17/66- 8/16/2021	E. Corner of Kinooles & Wailo Sts., Waiakea, South Hilo, Hawaii	3.273	bus	11,550.00
S-3930	William Thompson	10/18/65-10/17/85	Por. of Gov't. Land of Kalama 4, 5, Kahauola 1, South Kona, Hawaii	12.911	past	75.00
S-3931	Mildred De Lima	10/18/65-10/17/85	Lot 1317, Waiakea Homesteads, 3rd Series, South Hilo, Hawaii	66.55	past	195.00
S-3932	Paauhau Sugar Co.	10/18/65-10/17/85	Por. of Kalopa Homesteads, Hamakua, Hawaii	0.73	agr	25.00
S-3933	Roman Catholic Bishop of Honolulu	10/18/65-10/17/2030	Lots 116 & 117, Puako Beach Lots, Lalamilo, Waimea, S. Kohala, Hawaii	.643	ele	334.00
S-3934	Hubert M. Spivey	10/18/65-10/17/85	Por. of Waiakea Pasture Lands, Hawaii	119.694	past	360.00
S-3935	Roy S. & Martha S. Nagakura	10/18/65-10/17/2020	Lot 13, Waiakea House Lots, 1st Series, South Hilo, Hawaii	.30	bus	420.00
S-3936	Kazuo Komura	9/24/65- 9/23/2020	Lot 6, Panaewa Farm Lots Subdivision, 2nd Series, South Hilo, Hawaii	10.24	agr	490.00
S-3938	Frank De Luz, Jr. & Virginia De Luz	11/ 8/65-11/ 7/85	Por. of Kapualei Gov't. Remainder, Kapualei, Hamakua, Hawaii	33.62	past	685.00
S-3948	Hamakua Mill Co.	12/20/65-12/19/90	Por. of Gov't. Land of Hauola, Hamakua, Hawaii	160.02	agr	2,330.00
S-3949	Hawaiian Greenhouse, Inc.	12/20/65-12/19/2000	Keonepoko Homesteads, Pahoa, Hawaii	19.40	agr	639.10
S-3950	Kulana Foods, Ltd.	12/20/65-12/19/2000	Lot 820, Waiakea Homesteads, South Hilo, Hawaii	41.20	past	180.00
S-3954	Tokio Miyashiro	11/24/65-11/23/2020	Lot 16, Panaewa Farm Lots, 2nd Series, South Hilo, Hawaii	10.097	agr	485.00
S-3961	Melsan, Ltd.	4/15/66- 4/14/2031	Por. of Gov't. (Crown) Land of Waiakea Peninsula, S. Hilo, Hawaii	5.00	bus	32,670.00
S-3962	Eaton Magoon, Jr.	4/15/66- 4/14/96	Lots 1 & 2, Haukalua Homesteads 2nd, South Kona, Hawaii	14.19	agr	165.00
S-3966	Transportation Dept., U.S. Coast Guard	4/15/66- 4/14/2031	Hoopuloo, South Kona, Hawaii	1.19	fed	Gratis
S-3999	Divaco Cooperative	8/16/66- 8/15/2021	Lots 8 & 9, Hilo Industrial Development, Pohaku St. Section, Waiakea, South Hilo, Hawaii 2-2-47	.918	ind	2,184.00
S-4000	Kohala Sugar Co.	8/19/66- 8/18/2031	Government Land at Puuepa 2 & Kokoiki, N. Kohala, Hawaii 5-5-05: 1	.192	r/w	10.00
S-4001	W.H. Greenwell, Ltd.	8/16/66- 8/15/91	Onouli 2nd Government Tract, South Kona, Hawaii 8-1-06	423.00	past	625.00
S-4002	Hamakua Mill Co.	8/16/66- 8/15/91	Parcel A, Pohakuhaku-Kemau Government Remnants; Parcels B, C, D, E, & F, Opihilala-Kapualei Government Remnants; Government Remainder Kemau II Nakai Tract; Kaohe Government Remainder, Kaohe I; Lot 21-A, Pohakea Homestead, Makai Section, Opihilala & Paauilo, Hamakua, Hawaii 4-3-04, 05, 06, 07, 08, 09, 11.	168.611 52.721 221.332	cane waste	3,040.00 3,040.00
S-4003	Yee Hop, Ltd.	8/16/66- 8/15/91	Government Tract of Kipahoe, Ololeomoana 2nd, Opihihali 1, por. Kaohe 5 to Kolo & por. of Kaohe 4, South Kona, Hawaii	1,270.00	past	3,150.00
S-4004	Christ Lutheran Church	8/16/66- 8/15/2031	Portion of Government Land of Waiakea, S. Hilo, Hawaii 2-4-01	3.101	ele	\$ 1,214.00
S-4005	John J. Andrade & Josephine Andrade	8/16/66- 8/15/91	Lot 11, Ahualoa Reserve Remnants, Ahualoa Homesteads, Ahualoa, Hawaii 4-5-11:6	13.496	past	91.00
S-4006	Phoebe L. Loo	8/16/66- 8/15/86	Portion of Government Land of Waipio Valley, Hamakua, Hawaii	11.600	agr	200.00
S-4012	United States of America	1/ 3/66- 1/ 2/2031	Upper Waiakea, South Hilo, & Olaa, Puna, Hawaii	1,144.920	fed	Gratis
S-4018	First United Protestant Church of Hilo	10/ 6/66-10/ 5/2031	Lot 1, Portion of Government Land, Pihoonua, S. Hilo, Hawaii 2-3-27	3.572	ele	1,396.00
S-4019	Seven Seas, Inc.	10/ 6/66- 3/19/2016	Lots A & B, Hoolulu Business Lts., Waiakea, S. Hilo, Hawaii 2-2-33	1.184	bus	\$ 2,602.00
S-4020	U.S.A. (Army)	8/16/66- 8/15/71	Makuu, Puna, Hawaii	33.060	fed	Gratis
S-4024	George Freitas Dairy, Inc.	11/29/66-11/28/91	Puuepa 2-Kokoiki Government Tract, North Kohala, Hawaii 5-5-05	74.340	past	1,200.00
S-4025	Palani Ranch Co., Inc.	11/29/66-11/28/91	Honuaula Tract No., 2,	1,608.500	past	2,800.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4026	Farmers Enterprise Corp.	11/29/66-11/28/2001	Honuaula, North Kona, Hawaii 7-4-01:3			
S-4029	County of Hawaii	4/13/67- 4/12/2032	Lot 17, Panaewa Farm Lots, 2nd Series, Waiakea, S. Hilo, Hawaii 2-4-08	10.579	agr	510.00
S-4097	Shell Oil Company	3/31/67- 3/30/2032	Kealakehe, N. Kona, Hawaii 7-4-08	34.688	cty	Gratis
S-4098	Yoshito Iwamoto	3/31/67- 3/30/2032	Por. Gov't. land of Waiakea, South Hilo, Hawaii	.13	r/w	267.00
S-4099	Richard Smart	3/31/67- 3/20/2032	Portion of Waiohinu Government, Remnants at Waiohinu, Kau, Hawaii 9-5-02:40	.437	r/w	10.00
S-4102	Kilauea Council, Boy Scouts of America	4/15/66- 4/14/2021	Across Portion of Kamuela Airport Hawaii 6-7-01	.006	r/w	1.00
S-4105	James H. & Mabel M. Davis	9/ 6/67- 9/ 5/2032	Honokaia, Hamakua, Hawaii	238.00	rec	150.00
S-4106	Lydia Maertens	9/ 6/67- 9/ 5/2032	Puukapu, Waimea, Hawaii	.005	r/w	5.00
S-4107	Honokaa Sugar Co.	9/ 6/67- 9/ 5/92	Puukapu, Waimea, Hawaii	.003	r/w	3.00
S-4108	Honokaa Sugar Co.	9/ 6/67- 9/ 5/92	Lauka-Kulihai, Hamakua, Hawaii	117.98	agr	1,020.00
S-4109	Honokaa Sugar Co.	9/ 6/67- 9/ 5/92	Hanapai, Hamakua, Hawaii	43.55	agr	451.10
S-4130	Hawaiian Telephone Co.	1/ 1/68-12/31/2022	Hamakua, Hawaii	160.870	agr	1,861.00
S-4137	Frank L. Moniz III	1/12/68- 1/11/88	North Hilo, Hawaii	1.047	ind	36.00
S-4138	Everett C. Watt	1/12/68- 1/11/2023	Kaauhuhu, North Kohala, Hawaii	5.640	agr	100.00
S-4139	Honolulu Gas Co., Ltd.	4/14/67- 4/13/97	Waiakea, South Hilo, Hawaii	10.008	agr	552.00
S-4141	Signal Properties, Inc.	2/23/68- 2/22/93	Hilo, Hawaii	.230	ind	510.00
S-4191	University of Hawaii	6/ 1/68-12/31/2033	South Kohala, Hawaii	775.083	agr	10,000.00
S-4196	University of Hawaii	4/26/68- 4/25/2033	Kaohē, Hamakua, Hawaii	13,321.050	ind	Gratis
S-4201	Norona, Incorporated	9/26/68- 9/25/2023	South Kohala, Hawaii	196.414	agr	1.00
S-4202	Hiroshi Matsuyama	9/26/68- 9/25/93	Waiakea, S. Hilo, Hawaii	.470	ind	1,600.00
S-4203	Richard Smart	1/ 1/68-12/31/2033	Keopu No. 2, N. Kona, Hawaii	17.49	past	60.00
S-4204	Masaru Akahoshi	9/26/68- 9/25/78	South Kohala, Hawaii	.150	r/w	720.00
S-4205	Shinobu Oshima	9/26/68- 9/25/2023	Hilo, Hawaii	.149	r/w	90.00
S-4206	Sun Sun Lau	9/26/68- 9/25/2033	Waiakea, South Hilo, Hawaii	60.00	agr	3,312.00
S-4207	Hugo & Shirley Von Platen Luder	9/26/68- 2/28/2021	Waiakea, South Hilo, Hawaii	.06	r/w	24.00
S-4224	Richard Smart	2/ 7/69- 2/ 6/94	North Kona, Hawaii	.01	r/w	867.00
S-4225	Mitsuo & Yaeko Kitagawa	2/ 7/69- 2/ 6/2024	North Kohala, Hawaii	23.80	past	96.00
S-4226	Joseph Chang, Sr.	2/ 7/69- 2/ 6/89	Waialea, South Hilo, Hawaii	10.02	agr	576.00
S-4227	Island Holidays, Ltd.	2/ 7/69- 2/ 6/2034	Kokoiki, North Kohala, Hawaii	4.934	agr	45.00
S-4234	University of Hawaii	12/15/67-12/14/2032	Kahaluu, North Kona, Hawaii	.13	r/w	128.24
S-4235	University of Hawaii	4/11/69- 4/10/2034	Olaa, Puna, Hawaii	.01	r/w	Gratis
S-4237	C. Brewer & Co., Ltd.	4/15/69- 4/14/84	Humuula, North Hilo, Hawaii	.06	r/w	Gratis
S-4238	Geishun & Akiko Gushikuma	6/12/69- 6/11/89	Kaalualu, Kiolaakaa, Kau, Hawaii	9.58	agr	11,100.00
S-4239	Palani Ranch Co., Inc.	4/15/69- 4/14/94	Piha, North Hilo, Hawaii	2.19	agr	180.00
S-4246	Sim Wenner	8/ 9/69- 8/ 8/94	Kealakehe, North Kona, Hawaii	1,232.000	past	2,500.00
S-4247	Kahua Ranch, Ltd.	7/11/69- 7/10/94	Moeauoa I Gov't. Remainder, Moeauoa I, North Kona, Hawaii	6.890	past	55.00
S-4248	Margaret Cobey Black	7/11/69- 7/10/99	Pahinahina-Kiioakalani Gov't. tract, Section I at N. Kohala, Hawaii	5,865.00	past	3,930.00
S-4249	Bank of Hawaii	7/11/69- 7/10/2034	Kokoiki, N. Kohala, Hawaii	.052	r/w	60.00
S-4251	John W. Strauser	9/12/69- 9/11/94	Honuaula, N. Kona, Hawaii	.047	r/w	11.18
S-4252	Hilo Bay Hotel, Inc.	8/14/69- 3/14/2015	Lot 14, Puuanahulu Homestead, North Kona, Hawaii	8.199	agr	620.00
S-4253	Inter-Island Resorts, Ltd.	8/14/69- 3/14/2015	Lot B, Banyan Dr., Waiakea Peninsula, Hilo, Hawaii	0.215	bus	590.00
S-4260	Hutchinson Sugar Co., Ltd.	9/29/69- 9/28/2004	Lot A, Banyan Dr., S. Hilo, Hawaii	1.054	bus	3,300.00
S-4261	Hawaiian Agricultural Co.	9/29/69- 9/28/2004	Hionaa & Kaalaiki, Kau, Hawaii	1,791.489	cane	7,150.00
S-4262	Hutchinson Sugar Co., Ltd.	9/29/69- 9/28/94	Kapapala & Kaalaala, Kau, Hawaii	539.562	cane	2,150.00
S-4263	Hawaiian Agricultural Co.	9/29/69- 9/28/94	Waiohinu, Kau, Hawaii	378.870	cane	4,972.00
S-4264	Haruyuki & Hatsue Tao	9/29/69- 9/28/2024	Kapapala, Kau, Hawaii	291.130	cane	1,743.00
S-4279	Koichi Soga & Ryoko Soga	1/20/70- 1/19/95	Camp Site 8-A, Waiakea S. Hilo, Hawaii	.096	r/w	147.00
S-4280	Kinji & Tsuneyo Uyeda	1/20/70- 1/19/95	Parcel A, Por. Nanawale Forest Res. Kaniahiku, Puna, Hawaii	3.008	agr	160.00
S-4281	Richard Smart	1/20/70- 1/19/95	Parcel B & Rd. easement; por. Nanawale For. Res., & Parcel 3, Kaniahiku, Puna, Hawaii	2.000	agr	100.00
S-4281	Richard Smart	1/20/70- 1/19/95	Parcel A & B Puukole-Paoo Gov't. Tract, N. Kohala, Hawaii	2,464.290	past	4,500.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4282	Hutchinson Sugar Co., Ltd.	1/20/70- 1/19/95	Hionaa-Kaalaiki Gov't. Tract, Kau, Hawaii	2,197.290	cane	27,104.00
S-4283	Kapalama Commercial Center	1/20/70- 1/19/2010	Lot 13, Hilo, Ind. Dev., Pohaku St. Sec., Waiakea, S. Hilo, Hawaii	.439	ind	1,600.00
S-4284	Kapalama Commercial Center	1/20/70- 1/19/2025	Lot 8, Hilo Ind. Dev., Leilani St., Waiakea, S. Hilo, Hawaii	.826	ind	4,860.00
S-4285	Honokaa Sugar Co.	1/20/70- 1/19/95	Parcel A & B, Honokaia Makai Tract, Hamakua, Hawaii	666.449	cane	9,050.00
S-4286	Koshi Miyasaki	1/20/70- 1/19/86	Keanakolu Orchard—Arboretum, Humuula, N. Hilo, Hawaii	39.308	agr	1,105.00
S-4287	Antone Texeira & Helen Texeira	1/29/70- 1/19/2025	Easement—Pohakuhaku & Kemau, Hamakua, Hawaii	.330	r/w	60.00
S-4288	Honolulu Gas Company, Ltd.	5/ 7/69- 5/ 6/2024	Kealakehe, N. Kona, Hawaii	.354	r/w	430.00
S-4299	Ah Chun Lee	5/12/70- 5/11/1995	Por. of gov't. land of Makena & Lot 7 of Kaimu-Kiula Hmst., Makena & Kaimu, Puna, Hawaii	378.131	past	350.00
S-4300	Commercial Capital Corp.	5/12/70- 5/11/2025	Lot 1-A of Hilo Ind. Dev., Pohaku St. Sec. Waiakea, S. Hilo, Hawaii	1.435	ind	8,000.00
S-4301	K. Kobata & Sons, Inc.	5/12/70- 5/30/2022	Par B, S. Side of Kam Ave. betwn. Kalanikoa St. & Waiakea, S. Hilo, Hawaii/	.582	bus	1,600.00
S-4302	Robert M. Yamada, et al dba Yamada Transfer	5/12/70- 7/10/2025	Land Grt. Appl. 1651 Por. of Gov't. Land of Waiakea, Lot A, Block 40, Waiakea Hse lots & Gov't. Remnant at Waiakea, S. Hilo	4.823	ind	16,385.00
S-4303	Kwiki Pacific, Ltd.	6/11/70- 6/10/1990	Lot 5, Block 48, Waiakea Hse Lots Extension, Waiakea, S. Hilo, Hawaii	.608	ind	6,100.00
S-4306	Hacker and Scheiderich	6/30/70- 6/29/2010	Lot 2, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.331	ind	1,125.00
S-4307	Quality Sheetmetal Co., Ltd.	6/23/70- 6/22/2010	Lot 3, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.278	ind	1,350.00
S-4308	L. H. Nishimoto Plumbing Contractor, Inc.	6/23/70- 6/22/2010	Lot 4, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.551	ind	1,350.00
S-4309	The Investment Corporation	6/23/70- 6/22/2010	Lot 6, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.459	ind	1,620.00
S-4310	Big Island Buildings, Inc.	6/30/70- 6/29/2010	Lot 7, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.459	ind	1,620.00
S-4311	Industrial Steel Corporation	6/23/70- 6/22/210	Lots 10 & 11, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.877	ind	3,100.00
S-4312	Hacker and Scheiderich	6/30/70- 6/29/2010	Lot 12, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.439	ind	1,550.00
S-4313	Yamada & Sons, Inc.	6/23/70- 6/22/2010	Lot 14, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.256	ind	920.00
S-4314	Yamada Transfer	6/23/70- 6/22/2010	Lot 15, Hilo Ind. Dev. Pohaku St. Sect. Waiakea, S. Hilo, Hawaii	.273	ind	930.00
S-4315	Hawaii Planters, Inc.	6/23/70- 6/22/1995	Kalapana-Kupahua, Puna, Hawaii	.219	ind	400.00
S-4316	ALFLO RONCO Development, Inc.	6/23/70- 6/22/2025	Waiakea Golf Course, Waiakea, S. Hilo, Hawaii	63.248	bus	5,500.00
S-4317	Hisato Ogata & Tsuyako Ogata	6/30/70- 6/29/2025	Easement—Waiakea, Hawaii	.045	r/w	8.45
S-5000	Tsugio Sakata	3/31/67- 3/30/2032	Portion of Government Land of Waimea, S. Kohala, Hawaii	.012	r/w	11.00
S-5001	K. Kubota & Sons, Inc.	3/31/67- 3/30/2022	Parcel A, Waiakea, S. Hilo, Hawaii 2-2-32	1.000	bus	4,262.00
S-5002	Aiea Dairy, Ltd.	3/31/67- 3/30/92	Lot 88, Kaapahu Homesteads, Mauka Section, Hamakua, Hawaii 4-4-13:11	20.500	past	250.00
S-5003	Rudy & Ann Hirota	3/31/67- 3/30/92	Lots 1417 & 1516, Waiakea Homesteads 3 Series, S. Hilo, Hawaii 2-4-06	68.670	past	330.00
S-5004	Sueichi & Yoshiko Kawashima	3/31/67- 3/30/92	Lot 5A, Paauilo 2nd Series Homestead, Hamakua, Hawaii	3.04	agr	46.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-5005	Marjory Corley	3/31/67- 3/30/2002	Keonepoko-Nui Puna, Hawaii	5.000	agr.	65.00
S-5015	Motoshi Sako	5/19/67- 5/18/2002	Portion of Government Land of Olaa, Puna, Hawaii 1-7-01	.466	bus	485.00
S-5017	Mary K. Phillips	5/19/67- 5/18/2032	Portion of Government Land of Lalamilo, Waimea, S. Kohala, Hawaii 6-6-04	.033	r/w	22.00
S-5018	Nalei, Inc.	5/19/67- 5/18/2032	Lots 11 & 11-A, Ocean View Lots, Waiakea, S. Hilo, Hawaii 2-1-05	1.090	bus	10,600.00
S-5019	Kohala Ditch Co., Ltd.	5/19/67-12/31/91	Surface waters from State-owned Water- sheds at Hamakua & N. Kohala, Hawaii	5,845.00	wtr	8,000.00
S-5020	Kohala Sugar Company	5/19/67- 5/18/92	Awalua-Haena Government Tract at N. Kohala, Hawaii 5-6-01	185.550 8.800 14.480 22.250 <hr/> 231.080	cane r/w waste past	1,923.00



SECOND LAND DISTRICT Islands of Maui, Molokai and Lanai

GENERAL LEASES—SUMMARY SECOND LAND DISTRICT, June 30, 1970

Use	Area (Acres)	Annual Rental	No. Leases
Agriculture	978.048	\$ 11,067.00	28
Business	106.827	15,296.00	3
Cane	4,973.398	96,654.21	7
County	1.970	—	4
Eleemosynary	51.423	515.00	5
Federal	11,220.311	—	4
Fishpond . . . . .	.600	137.00	1
Industrial	1.262	1,800.00	2
Pasture	22,104.396	38,581.12	45
Pineapple	—	—	—
Recreational	7.742	150.00	1
Residential	9.627	810.00	2
Rights of Way	26.425	2,190.63	11
Waste	128.134	(1) —	3
Water Licenses, etc.	3,381.00	74,550.00	4
TOTAL	42,991.163	\$241,750.96	120

(1) Included in sugar cane leases.

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
3292	Kaupo Ranch, Ltd.	7/26/49- 7/25/70	Nakula, Kaupo, Maui	1,536.000	past	2,100.00
3299	Pioneer Mill Co., Ltd.	1/ 1/50-12/31/70	Section A & B, Portion of Gov't. lands of Olowalu & Ukumehame, Lahaina, Maui	1,561.465	past	1,600.00
3301	Molokai Electric Co., Limited	9/14/49- 9/13/70	Kahanui and Naiwa, Maui	.425	r/w	1.00
3349	East Maui Irrigation Company, Limited	7/ 1/50- 6/30/71	Keanae, Koolau Forest Reserve, Maui		wtr	10.00
3394	Kaupo Ranch, Ltd.	1/14/52- 1/13/73	Por. of Gov't. Lands of Pualaea	361.400	past	325.00
3396	Maui Factors, Inc.	1/14/52- 1/13/73	Kaniaula & Kalepa, Kaupo, Maui			
3397	Alfred Ferreira	1/14/52- 1/13/73	Por. of Gov't. Land of Ukumehame, Maui	4,858.431	past	6,740.00
3398	Exporters, Limited	1/14/52- 1/13/73	Lot 0, Nahiku Homesteads, Koolau, Maui	7.350	past	15.00
3399	Wilbert P. Costa	1/14/52- 1/13/73	Par. 7 & 15, Kapohue & Puuiki, Hana, Maui	1.840	past	12.00
3400	Valentine Redo	1/14/52- 1/13/73	East Honomale Kawela-Kaileku Gov't. Tract, Hana, Maui	960.00	past	8,025.00
3401	Anthony Tam	1/14/52- 1/13/73	Portion Government Land of Wailuku, Hana, Maui	731.250	past	913.06
3403	Henry M. Bush	1/14/52- 1/13/73	Por. of Gov't. Land of Honokalani Hana, Maui	175.000	past	101.00
3404	Hiroshi Takatani	1/14/52- 1/13/73	Parts 1,2,3 & 4 of Lot 1, Ualapue Lots, Maui	2.710	past	30.00
3405	Roy I. Akiyama & Ralph H. Iwamoto	1/14/52- 1/13/73	Por. of Gov't. Land of Maluaka, Honuaula, Makawao, Maui	2.000	agr	16.00
3406	West Maui Athletic Assn.	1/14/52- 1/13/73	Gov't. Lands at Pukoo 3, Molokai	9.410	res	100.00
3411	Pioneer Mill Co., Ltd.	1/14/52- 1/13/73	Gov't. Remnant off Front St., at Pakala, Lahaina, Maui	.200	ele	20.00
3488	Tatsuo Suehiro	6/28/54- 6/27/75	Por. of Gov't. Land at Olowalu, Lahaina, Maui		r/w	100.00
3489	Manuel Souza et al, Tr. for Apostolic Faith Church of Honolulu	6/28/54- 6/27/75	Lot B, Alamihi, Lahaina, Maui	.145	agr	16.00
3495	Joseph Young	6/28/54- 6/27/75	Lot A, Alamihi, Lahaina, Maui	.26	ele	26.00
3496	Margaret M. Rossi	6/28/54- 6/27/75	Lot 36, Wailua Homesteads, Koolau, Maui	1.80	agr	44.00
3497	John Emmsley	6/28/54- 6/27/75	Lots 3 & 3-A, Keanae Homesteads, Keanae, Maui	1.770	past	24.00
3498	John Pacheco Tavares	6/28/54- 6/27/75	Gov't. Land of East Papaea, Hamakualoa, Maui	50.56	past	40.00
3499	Joseph & Williet E. Range	6/28/54- 6/27/75	Gov't. remnant in W. Hanawana, Hamakualoa, Maui	31.47	past	40.00
3500	Ah Chow Atai	6/28/54- 6/27/75	Gov't. remnant in W. Papaea, Hamakualoa, Maui	79.10	past	100.00
3501	Mrs. Pearl Friel	6/28/54- 6/27/75	Lots 5 & 5-A, Honomanu Homesteads, Koolau, Maui	4.44	past	24.00
3505	East Maui Irrigation Co., Limited	7/ 1/55- 6/30/76	Por. Gov't. Land of East Ohia, Maui	56.44	past	50.00
3513	Henry M. Bush	4/25/55- 4/24/76	Nahiku Water License, Hana & Makawao, Maui		wtr	9,020.00
3514	Hana Ranch Co., Ltd.	4/25/55- 4/24/76	Lots 1, 2, 3, & 4 Ualapue Pasture Lots, Ualapue, Maui	21.550	past	126.00
3515	Frank Tavares Pacheco	4/25/55- 4/24/76	Lots 1 & 2 Papaauhau Remnants, Maui	26.07	past	78.00
3535	Maui Electric Co., Ltd.	1/16/56- 1/15/77	Por. Gov't. Remnant in Hanehoi Hamakualoa, Maui	52.65	past	175.00
3536	Hawaiian Broadcasting System, Ltd.	3/ 1/56- 2/28/77	Por. Gov't. Land of Waiakoa and Papaanui, Maui	4.762	r/w	24.00
3537	Wailuku Sugar Co.	1/16/56- 1/15/77	Kolekole Hill, Papaanui, together with easement, Makawao, Maui	2.57	bus	96.00
3538	Harold P. Hustace	1/16/56- 1/15/71	Por. of Land of Kahakulua, Kaanapali, Maui	136.40	past	300.00
L-3578	East Maui Irrigation Company, Ltd.	7/ 1/60- 6/30/81	Kaluaaha School Lot, Kaluaaha, Maui	5.063	agr	301.00
3588	Pioneer Mill Co., Ltd.	1/ 1/60-12/31/89	Huelo License, Hamakua-poko, Maui		wtr	50,010.00
S-3636	Samuel & Mary Kaauamo	4/14/61- 4/13/76	Honokowai, Lahaina, Maui	1,124.600	cane	20,834.21
S-3637	Hana Ranch, Inc.	4/14/61- 4/13/91	Gov't. Remnant within Wailua-Homestead Tract, Wailua (Koolau), Maui	1.25	agr	25.00
S-3638	Maui Pineapple Co., Limited	4/14/61- 4/13/81	Por. of Gov't. Land of Kawaipapa, including Loko Waiohonu, Hana, Maui	.600	fpd	137.00
S-3640	Ulupalakua Ranch, Inc.	4/28/61- 4/27/82	Honokowai Mauka Gov't. Tract, Kaanapali, Lahaina, Maui	157.94	agr	3,800.00
S-3681	Maui Pineapple Co., Limited	1/12/62- 1/11/82	Lot 40, Nahiku Homesteads, Koolau, Maui	45.40	past	45.00
S-3682	Haleakala Ranch Co.	1/12/62- 1/11/82	Por. of Gov't. Land of Napili 4 & 5, on Honoapiilani Hwy., Lahaina, Maui	239.04	agr	1,642.00
S-3683	Frank Cuelho, Jr., Philip R. Perry & Eugene K. Duvauchelle	3/12/62- 3/11/82	Por. of Gov't. Haleakala Tract, Makawao, Hamakua-poko, Maui	150.70	past	1,650.00
			Por. of Land of Pukoo, Molokai	142.89	past	300.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3684	Maui County Council, Inc., Boy Scouts of Amer.	1/12/62- 1/11/82	Lots 12-A, 12-B1, Kahakuloa Homesteads, Wailuku (Kaanapali), Maui	47.68	ele	60.00
S-3685	Wailuku Sugar Co.	1/12/62- 1/11/82	Lot 12-B-2, Kahakuloa Homesteads, Wailuku, (Kaanapali), Maui	194.51	past	1,825.00
S-3687	Wailuku Sugar Co.	1/12/62- 1/11/82	Por. of Ili of Kou, situate on main Gov't. Road at Waiehu, Wailuku, Maui	12.48	cane	735.00
S-3695	East Maui Irrigation Company, Ltd.	7/ 1/62- 6/30/86	Honomanu Water License, Koolau, Maui	3,381.000	wtr	15,510.00
S-3699	John M. Dee Souza	5/17/62- 5/16/82	Gov't. Land, Koolau, Hana, Maui	66.000	past	120.00
S-3700	Ulupalakua Ranch, Inc.	3/19/62- 3/18/82	Gov't. Land of Honuaula, Kanaio & Kaunuahano, Kaloi Gov't. Tract, incl. Lots 1-17, incl. of Kanaio Homesteads, Honuaula, Maui	8,370.000	past	5,000.00
S-3701	Haleakala Ranch Co.	3/19/62- 3/18/82	Por. of Nakula Mauka Gov't. Tract, Kaupo & Kahikinui, Maui	423.200	past	3,714.00
S-3714	County of Maui & U.S.A. (Civil Defense)	11/15/62-11/14/82	Abandoned shop building at Firebreak Rd., Puunene Airport, Maui	962.73	fed	Gratis
S-3717	West Maui AJA Veterans Club	11/ 5/62-11/ 4/87	Lot 46, Waihikuli Houselots, 3rd Series, Lahaina, Maui	.46	ele	120.00
S-3730	County of Maui Civil Defense Agency	3/18/63- 3/17/73	Concrete storage building at old Puunene Airport, Puunene, Maui		cty	Gratis
S-3741	U.S.A., FAA	7/ 1/64- 6/30/84	Kealalaloa, Ukumehame, Maui	1.531	fed	Gratis
S-3749	U.S.A., Corps of Engineers (U.S. Army)	4/19/63- 4/18/2028	Papaanui, Makawao (Honuaula), Maui	4.45	fed	Gratis
S-3817	Maui Young Men's Christian Association	11/24/64- 11/23/2019	Kearnae, Hana (Koolau), Maui	7.742	rec	150.00
S-3820	Roy F. Bodnar	4/ 8/64- 4/ 7/84	Gov't. Remnants, Parcels C, D, E, Puolua Hamakualoa, Makawao, Maui	12.89	past	60.00
S-3821	Leonard Nakoa	4/ 8/64- 4/ 7/74	Lots 6, 9, 16, 23, 47, 48, 57, 58 Kahukuloa Hmstds., Wailuku, Maui	1.539	agr	109.00
S-3822	Walter F. Teixeira	4/ 8/64- 4/ 7/84	Lot 1, Upper Kualopa Lots, Makawao, Maui	20.820	past	85.00
S-3823	Victoria Kanoa	4/ 8/64 4/ 7/74	Por. of Gov't. (Crown) Land, Kearnae & Gov't. Poalimas, Par. 1 & 2, Kearnae, Koolau, adjacent to Lot 3, L.C. Appl. 240, Hana, Maui	1.497	agr	48.00
S-3824	Anthony DeCoite	4/ 8/64- 4/ 7/84	Parcels A & B, Paehala Gov't. Tract, Paehala, Hana, Maui	48.1	past	105.00
S-3825	County of Maui	5/22/64- 5/21/2029	Old Kipahulu School Lot, Kalena, Hana, Maui	1.97	cty	Gratis
S-3826	County of Maui Civil Defense Agency	11/25/64-11/24/74	Splinter Shelter Bldg., Facility No. 03659; Bldg. 2, Old Puunene Airport, Puunene, Maui		cty	Gratis
S-3835	Pioneer Mill Co., Ltd.	6/ 2/64- 6/ 1/84	Honokowai, Kaanapali, Waihikuli, Lahainaluna, Lahaina, Maui	17.901	r/w	1,500.00
S-3857	Leslie W. & Coila I. Eade	8/17/64- 8/16/99	Papaauhau, between Hana Hwy. & the Sea, Papaauhau, Hana, Maui	5.20	agr	590.00
S-3918	University of Hawaii	5/28/65- 5/27/2030	Parcel 1, Kealahou 1 & 2 and Waiakoa, Makawao, Kula, Maui	20.674	agr	Gratis
S-3920	Joseph Young	7/20/65- 7/19/85	Lots 12-A, 13-A, 26-A, 32, 32-A & Parcel 54 of T.M.K. 1-1-5, Wailua Homesteads, Hana, Maui	5.93	agr	177.00
S-3922	Cecilia Kaauamo	7/20/65- 7/19/85	Lots 2-A, 18-A, 19-A, 21-A & 22-A, Wailua Homesteads, Koolau, Hana, Maui	2.99	agr	80.00
S-3923	Colin C. Cameron	7/20/65- 7/19/2030	Non-Exclusive easement for roadway 20-ft. wide, Kahului Airport, Kahului, Maui	.166	r/w	75.00
S-3947	George W. Murphy, dba Puuohoku Ranch	6/ 1/66- 5/31/86	Por. Gov't. Land of Honouliwai, makai of Molokai Forest Reserve, Molokai	577.00	past	1,851.00
S-3953	U.S.A. (Navy)	11/ 4/65-11/ 3/70	Por. Molokai Forest Reserve	10,251.60	fed	Gratis
S-3964	Charles H. Tuck	6/ 1/66- 5/31/86	Lots 28, 29, 30, Waiohonu-Kakio Homesteads, Hana, Maui	35.85	past	90.00
S-3965	Samuel Kaauamo	6/ 1/66- 5/31/86	Lots 17-A & 46, Wailua Homesteads, Wailua, Hana, Maui	2.63	agr	34.00
S-3972	Dr. Louis Prucher	5/21/68- 5/20/88	Omaopio, Makawao (Kula), Maui	6.30	agr	200.00
S-3984	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lot C, Lahainaluna School Lands, Lahaina, Maui 4-6-18:4	69.400 25.100 78.100	cane past waste	1,765.00
S-3985	Pioneer Mill Co., Ltd.	7/11/66- 7/10/86	Lots A-1 & A-3, Lahainaluna School Lands, Lahaina, Maui 4-6-18:6 & 10	162.600 37.480 42.759 80.599	cane waste	950.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3986	Molokai Farm, Inc.	7/11/66- 7/10/2001	Parcel A, Molokai Farm Lots, Hoolehua-	365.00	agr	28,000.00
S-4013	Obed Sniffen	10/17/66-10/16/86	Apana 2 & Paalu-Apana 2, Molokai	56.010	past	45.00
S-4015	Joe Castro, Jr.	10/17/66-10/16/86	Lot 9, Kahakuloa Homesteads,	92.800	past	175.00
S-4016	Erik Krag, dba Hana Tropical Fruit Plantation	10/17/66-10/16/2001	Lot 11, Kahakuloa Homesteads,	421.170	agr	700.00
S-4028	Hawaiian Telephone	7/ 1/66- 6/30/2031	Wailuku, Maui 3-1-01	.262	ind	300.00
S-4111	Alfred & Rosaline Ferreira	9/25/67- 9/24/87	Portion of Government Land, Kawai- apapa and Kakiu, Hana, Maui 1-3-04	63.000	agr	300.00
S-4112	Maui Shores Syndicate & Kihei Shores	9/25/67- 9/24/2032	Papaanui, Makawao, (Honuaula), Maui	.400	r/w	150.00
S-4189	Hana Ranch Co., Ltd.	3/ 7/68- 3/ 6/88	Por. of Hon.-Nui & Hon.-Nui and Hon-Iki, Maui	1.000	agr	15.00
S-4190	Joseph Young	3/ 7/68- 3/ 6/88	Kamaole, Wailuku, (Kula), Maui	2.76	agr	40.00
S-4192	Harry O. Mitchell & Pearl R. Mitchell	4/22/68- 4/21/88	Wailua Homesteads,	2.180	agr	55.00
S-4193	Yvonne Mathews	4/22/68- 4/21/88	Wailua, Maui	2.10	agr	200.00
S-4194	Dr. Louis R. Prucher	5/22/68- 5/21/88	Ualapue, Kona, Molokai	6.300	agr	200.00
S-4195	Tyson E. Benson	4/22/68- 4/21/2033	Omaopio, Makawao, (Kula), Maui	.217	res	710.00
S-4197	Alexander & Baldwin, Inc.	7/ 1/68- 6/30/2003	Kamaole, (Kula), Maui	1,875.27	cane	35,500.00
S-4209	Harold K. & Louise Geise Lee	10/ 3/68-10/ 2/2023	Pulehunui & Waikapu, Wailuku, Maui	1.10	agr	1,070.00
S-4210	Virginia May Cundiff	10/ 3/68-10/ 2/2033	Lot 4, Keanae Homesteads, Keanae, Hana, (Koolau), Maui	.97	agr	350.00
S-4211	Stephen & Gerald Perreia	9/12/68- 9/11/88	Keanae, Hana, (Koolau), Maui	16.55	past	120.00
S-4212	John J. Fagan & Walter C. Witte	9/ 4/68- 9/ 3/2033	Water Hole Reserve, Waiakoa Homesteads, Kula, Maui	1.12	bus	6,700.00
S-4229	Pioneer Mill Co., Ltd.	2/25/69- 2/24/94	Kamaole, Wailuku, Maui	1,819.00	cane	36,000.00
S-4230	Charles S. Ota	2/25/69 - 2/24/89	Wahikuli, Lahaina, (Kaanapali), Maui	67.00	past	250.00
S-4231	Paul T. & Bernice T. Otani	2/25/69- 2/24/94	Honomanu Gov't. Land, Honomanu, Hana, Maui	13.14	agr	500.00
S-4232	Frank T. Pacheco	2/25/69- 2/24/94	Omapio, Kula, Maui	.76	past	30.00
S-4233	Harry Frisbie	2/25/69- 2/24/89	Puolua, Makawao, (Hamakualoa), Maui	148.70	past	410.00
S-4241	Harry Frisbie	5/ 6/69- 6/ 4/94	Keanae & Pahoa, Hana, Maui	53.330	past	600.00
S-4242	Steven DeCoite & Florence Harold	5/ 6/69- 6/ 4/94	Hamakualoa, Makawao, Maui	28.420	past	355.00
S-4269	Paul B. Noel, Leroy E. Austin, Herbert W. Austin & AUSCO Inc. dba Puaahala Co.	11/ 8/69-11/ 7/2034	Honokala, Hamakualoa, Maui	108.137	bus	8,500.00
S-4270	Lahaina-Kaanapali & Pacific Railroad, Ltd.	11/24/69-11/23/2009	Submerged Lands fronting the Ahupuaas of Puuhala & Kaamola, Molokai	2.251	r/w	34.63
S-4271	Lahaina Hongwanji Mission	11/24/69-11/23/2034	Parcels 1-5, Kapunakea & Wahikuli, Lahaina, Maui	.083	ele	225.00
S-4272	Michael Paul Milner	11/24/69-11/23/2034	Por. of Former Lot 21-A (Mokuhinia Pond) Wainee, Lahaina, Maui	1.840	agr	300.00
S-4273	Amfac, Inc.	11/24/69-11/23/2034	Por. of Former Old Kuiaha Sch. Lot, Makawao, Maui	.130	r/w	141.00
S-4274	Kula Acres, Inc.	11/24/69-11/23/74	Offshore waters of Hana- kao, Lahaina, Maui	.048	r/w	62.00
S-5008	Pioneer Mill Co., Ltd.	5/23/67- 5/22/87	Waiakoa, Makawao (Kula), Maui TMK 2-2-11 & 12	34.808	cane	870.00
S-5009	Kilolani Congrega- tional Church	5/23/67- 5/22/2032	Portion of 4-6-18:13, Lahainaluna School Lands, Lahaina, Maui	7.275	waste	
S-5010	Edward B. Perreira & Sylvia M. Perreira	5/23/67- 5/22/87		42.083		
S-5011	Gordon D. MacKenzie	5/23/67- 5/22/2032	Portion of Government Land of Waiohuli, Wailuku, Maui 3-9-01	3.000	ele	90.00
S-5012	Kenneth K. Otani	5/23/67- 5/22/82	Wailua-Nui Government Remainder, Hana, Maui 1-1-08	59.910	past	150.00
S-5014	David Nobriga	10/17/66-10/16/86	Portion of Government Land of Honouliwai, Molokai 5-8-03	.176	r/w	28.00
			Portion of Kahului Airport, Kahului, Maui 3-8-01	1.000	ind	1,500.00
			Lot 10, Kahakuloa Homesteads, Wailuku, Maui, 3-1-01	78.600	past	60.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
L- 810	Waiahole Water Co., Ltd.	5/27/16- 5/27/76	Waiahole, Koolaupoko		wtr	\$ 15,000.00
L-1755	Hawaiian Electric Co., Ltd.	4/ 7/46-Indefinite	Auwaiolimu & Kewalo	.21	r/w	1.00
L-1756	Hawaiian Electric Co., Ltd.	6/21/21-Indefinite	Waialae	1.02	r/w	12.00
F-2955	Hawaiian Electric Co., Ltd.	5/25/48- 5/24/98	Schofield Barracks	.548	fed	Gratis
L-3315	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Makiki, Honolulu	.34	r/w	12.00
L-3316	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Kawailoa, Kailua, Honolulu	.54	r/w	12.00
L-3317	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Waimanalo, Koolaupoko	9.08	r/w	12.00
L-3318	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Waianae & Lualualei	1.37	r/w	17.00
L-3319	Hawaiian Electric Co., Ltd.	11/ 4/49-11/ 3/70	Nanakuli & Lualualei	2.31	r/w	12.00
L-3352	Castle & Cooke, Inc.	1/ 1/51-12/31/72	Wahiawa	4,620.00	wtr	16,000.00
L-3383	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Aiea	.08	r/w	12.00
L-3384	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Honolulu	1.03	r/w	31.00
L-3385	Hawaiian Electric Co., Ltd.	4/ 4/51- 4/ 3/72	Kealahala, Kaneohe, Koolaupoko	1.02	r/w	12.00
3386	Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Nanakuli, Waianae	.90	bus	100.00
L-3387	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	4/ 4/51- 4/ 3/72	Waimanalo, Koolaupoko	2.28	r/w	32.00
3388	Abel S. Santos	1/ 1/52-12/31/73	Kaneohe, Koolaupoko	89.50	agr	770.00
3389	Oahu Sugar Co., Ltd.	4/ 4/51- 4/ 3/72	Waimalu, Kaumiumi, Ewa	7.613	past	106.00
3390	(Mrs.) Apolonia Rose	7/ 1/51- 8/31/72	Aiea, Ewa	.60	res	540.00
3391	Harold Chung-Hoon III	4/ 4/51- 4/ 3/72	Keaau, Waianae	476.910	past	300.00
3429	Hawaiian Telephone Co.	6/ 6/52- 6/ 5/73	Kalawahine & Opu (Tantalus), Honolulu	2.37	bus	200.00
3430	Hawaiian Cement Corp.	6/ 6/52- 6/ 5/73	Lualualei, Waianae	17.890	ind	100.00
3459	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	12/ 7/53-12/ 6/74	Pupukea-Paumalu, Koolauloa	.03	r/w	12.00
3465	Hawaiian Trust Co., Ltd.	12/ 7/53-12/ 6/74	Hotel St., Honolulu	.09	bus	12.00
S-3469	Labriano Garcia	4/ 5/54- 4/ 4/75	Waianae-Kai	97.390	past	275.00
3470	Wilbert H.S. & Flora K. Choi	4/ 5/54- 4/ 4/75	Makiki, Honolulu	1.29	agr	800.00
L-3471	Hawaiian Bitumuls & Paving Co., Ltd.	4/ 5/54- 4/ 4/75	Kaena, Waialua	76.376	ind	76.00
L-3502	Hawaiian Electric Co., Ltd. & Hawaiian Telephone Co.	10/27/54-10/26/75	Kewalo & Kalawahine, Honolulu	.729	r/w	30.00
3539	Roswell M. Towill	2/21/56- 2/20/77	Kaneohe Bay, Kahaluu, Koolaupoko	.180	res	80.00
3540	California Packing Corporation	7/ 1/57- 6/30/72	Upper Puohala, Waialea, Ewa	578.265	pine	17,119.45
3541	Kahuku Plantation Co.	2/21/56- 2/20/71	Waialea, Koolauloa	5.861	agr	175.85
3542	Edmund F. Lai	2/21/56- 2/20/71	Par. A-2, Waialea & Pahipahialua, Koolauloa	20.828	agr	860.00
3543	Edmund F. Lai	2/21/56- 2/20/71	Par. B-2, Waialea & Pahipahialua, Koolauloa	11.582	agr	755.00
3544	The Eye of the Pacific, Incorporated	2/21/56- 2/20/77	Lot 12, Piliamoo House Lots & Remnant, Moiliili, Honolulu	.55	ek	60.00
3545	Honolulu Gas Co., Ltd.	2/21/56- 2/20/77	Lot CC-2-B, Kuwili, Kapalama-Kai, Honolulu	7.408	ind	55,260.00
L-3562	Hawaiian Electric Co., Ltd.	6/18/56- 6/17/77	Piliamoo, Kanewa, & Waahila, Honolulu		r/w	24.00
3563	Castle & Cooke, Inc.	8/ 1/56- 7/31/77	Wahiawa, Waialua	.13	wtr	12.00
S-3564	Advertiser Publishing Co., Ltd. & Hercules Broadcasting Co.	8/27/56- 8/26/77	Kaakaukui, Honolulu	.080	bus	1,400.00
S-3565	GEM International, Inc.	8/27/56- 8/26/77	Kuwili, Honolulu	3.075	ind	9,000.00
S-3689	Ornellas, Inc.	4/ 1/62- 3/31/72	Nimitz Highway between Maunakea & Smith Sts., Honolulu	.133	bus	8,400.00
S-3702	Honolulu Gas Co., Ltd.	3/21/62- 3/20/92	Wilikina Dr., Wahiawa	.051	r/w	220.00
S-3709	The Oceanic Foundation	8/21/62- 8/20/2027	Waimanalo, Koolaupoko	118.00	ele	12,000.00
S-3726	Honolulu Star Bulletin Inc.	1/14/63- 1/13/83	Ala Wai Blvd., Kalia, Waikiki Honolulu	2.00	r/w	130.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3727	Roman Rivera & Alfonsa Remiscal Nacapoy	1/14/63- 1/13/2028	Kaluapalena, Kalihi, Honolulu	.154	r/w	19.20
S-3747	U.S.A. (Army Corps of Engineers)	4/19/63- 4/18/2028	Mt. Kaala, Mokuleia, Waialua, Oahu	1.800	fed	Gratis
S-3748	U.S.A. Federal Aviation Agency	4/19/63- 4/18/2028	Mokuleia Forest Res., Oahu	53.630	fed	Gratis
S-3806	Honolulu Redevelopment Agency, City & County of Honolulu	4/ 1/64- 3/31/74	Lot B, Iwilei Gov't. Lots, Honolulu	2.409	bus	1.00
S-3808	City & County of Honolulu	6/17/64- 6/16/2029	Pauhala & Ulumoku, Waikele, Ewa	45.810	r/w	Gratis
S-3809	Canadian Overseas Telecommunications Corporation	4/ 2/64- 4/ 1/2029	Keawaula, Waianae	3.979	ind	1,000.00
S-3811	Consolidated Amusement Co., Ltd.	4/ 2/64- 4/ 1/2029	Kalauao, Ewa	.015	r/w	125.00
S-3813	U.S.A. (Navy)	7/ 1/64- 6/30/79	Gov't. Lands at Nanakuli, Lualualei, Waianae	.397	r/w	Gratis
S-3843	City & County of Honolulu (Maluhia Hospital)	2/26/65- 2/25/2030	Between S. of Hala Dr. & N. of ext. of Kuakini St., adjacent Blk. 1, Sec. C. McNerny Tract & Sec. C of Lanakila Tract at Kalaepohaku, & Kapalama, Honolulu	3.09	cty	1.00
S-3845	U.S.A. (Army)	8/17/64- 8/16/2029	Kaena Point Tracking Station	137.98	fed	Gratis
S-3846	U.S.A. (Army)	8/17/64- 8/16/2029	Kawailoa Training Area	4,390.00	fed	Gratis
S-3848	U.S.A. (Army)	8/17/64- 8/16/2029	Makua Training Area, Parcels A & B	1,515.121	fed	Gratis
S-3850	U.S.A. (Army)	8/17/64- 8/16/2029	Kahuku Training Area, Kahuku	1,149.72	fed	Gratis
S-3851	U.S.A. (Army)	8/17/64- 8/16/2029	Lualualei Maneuver Area, Lualualei	57.825	fed	Gratis
S-3864	University of Hawaii	7/ 1/65- 6/30/2030	Kaakaukui, Honolulu	6.071	ele	1.00
S-3896	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead easement over por. E. O. 1346, Kapalama, Honolulu	.115	r/w	75.00
S-3897	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	25-ft. wide easement for overhead electric transmission line, over and across H.H.L., Nanakuli	3.79	r/w	84.00
S-3898	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Underground easement, Makiki Forest Ridge Lots, Honolulu	.079	r/w	50.00
S-3899	First Hawaiian Bank	3/11/65- 3/10/2030	Lots 25 & 25-A, Auwaiolimu Lots, Honolulu	.299	r/w	600.00
S-3900	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	Overhead easement at Kuwili & Kapalama, Honolulu	.118	r/w	73.00
S-3901	Hawaiian Electric Co., Inc. & Hawaiian Telephone Co.	3/11/65- 3/10/2030	End of Mao Lane to Vineyard Throughfare, Kapalama, Honolulu	.006	r/w	5.00
S-3902	Oahu Sugar Company, Ltd.	3/11/65- 3/10/2005	Pipeline & utility easement at Waipahu, Waikele	.260	r/w	70.40
S-3903	Hawaiian Telephone Company	3/11/65- 3/10/2030	Diamond Head Tunnel, easement for communication cable & communication center, Kapahulu, Honolulu	.96	r/w	1.00
S-3904	Hawaiian Electric Co., Inc. & Hawaiian Telephone Company	3/11/65- 3/10/2030	Overhead & underground easement across Kalihi Waena School, Honolulu	.42	r/w	205.00
S-3905	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	Overhead easement at Laelae, Kalihi Valley, Honolulu	.365	r/w	50.00
S-3906	Hawaiian Electric Co., Inc.	3/11/65- 3/10/2030	Easement for electric transmission line, Kapalama Bascule Bridge, Mokauea, Kalihi, Honolulu	.481	r/w	200.00
S-3915	Francis I. Tsuzuki & Morio Omori	6/21/65- 6/20/2030	Kewalo, Honolulu	.043	r/w	78.00
S-3924	U.S.A., Army Engineer Division, Pacific Ocean	12/ 1/65-Indefinite	10x12 ft. room at Battery Harlow, Fort Ruger, Honolulu	.003	fed	Gratis
S-3951	Aloha, Council, Boy Scouts of America	3/11/66- 3/10/2021	Parcels A & B, Por. of Gov't. (Crown) Land of Pupukea, Koolauloa	64.800	ele	150.00
S-3963	U.S.A. (Army Corps of Engineers)	1/ 1/65-12/31/2029	Waialua, Oahu	.372	fed	Gratis
S-3967	City and County of Honolulu	4/15/66- 4/14/71	Lualualei, Waianae	.528	r/w	Gratis
S-3978	Ralph Ajifu & Richard Azama	6/27/66- 6/26/2031	Kaluapuhi-Waikalua Homesteads, Kaneohe	.168	r/w	30.00
S-3979	Halcyon Lee Song & Agnes S. Field	6/27/66- 6/26/2031	Por. Gov't. Land, Opu (Watershed Forest Reserve, Round Top Drive, Tantalus)	.058	r/w	75.00
S-3980	Esther K. Arinaga	6/27/66- 6/26/2031	Makiki Ditch	.021	r/w	36.00
S-3981	Roy H. Aoki & Jane S. Aoki	6/27/66- 6/26/2031	Por. of Gov't. Land, Pauoa Valley	.01	r/w	1.00
S-3982	Castle & Cooke, Inc.	6/27/66- 6/26/2031	Kuwili, Kapalama-Kai	.09	r/w	246.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3983	David Ap Lew	6/27/66- 6/26/2021	Por. Old Waialea Boy's Home, Koolauloa	12.854	bus	6,324.00
S-3996	Y. Hata & Co., Ltd.	8/ 5/66- 8 / 4/2021	Parcel, Food Distribution Center, 1st Increment, Kaakaukui, Honolulu, Oahu 2-1-58	4.146	bus	48,750.00
S-3997	Honolulu Community Theater	8/18/66- 8/17/2016	Portion of Block 56, Kaimuki Tract	2.735	bus	6,000.00
S-4014	Hawaii Little League Stadium	4/ 1/68- 3/31/2033	Kapahulu, Honolulu, Oahu 3-2-30	6.190	rec	150.00
S-4017	Aloha Council, Boy Scouts of America	6/10/66- 6/ 9/96	Reservoir Lot, Kaimuki, Honolulu, Hawaii	.657	ele	150.00
S-4027	Communications Satellite Corporation	12/28/66-12/27/2031	Mount Kaala, Mokuleia, Portion of Mokuleia Forest Reserve, Waialua, Oahu 6-7-03	.106	bus	330.00
S-4094	City and County of Honolulu	12/17/65-12/16/2030	Kapahulu, Waikiki, Honolulu, Hawaii	.139	cty	Gratis
S-4096	University of Hawaii	9/ 1/67- 8/31/77	Waimanalo, Oahu 4-1-13	127.282	agr	Gratis
S-4100	Army & Air Force Exchange Service	11/ 1/67-10/31/2032	Kaakaukui, Honolulu, Hawaii	2.500	fed	Gratis
S-4104	Hawaiian Electric Company, Inc.	4/15/66- 5/28/2028	Kapahulu, Honolulu, Hawaii	.154	r/w	10.00
S-4110	Hawaii Kai Community Services Company	9/15/67- 9/14/2032	Maunaloa, Oahu, Hawaii	.643	r/w	255.00
S-4113	Val's U-Drive, Inc.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.676	ind	10,900.00
S-4114	Real Estate Equities Corp.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.910	ind	13,300.00
S-4115	Associated Masons, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.945	ind	12,200.00
S-4116	Valdastri, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	1.013	ind	15,600.00
S-4117	Sen Company, Inc.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	1.013	ind	15,300.00
S-4118	Harders Company, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	1.013	ind	16,400.00
S-4119	Sunvan & Storage Company, Inc.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	1.094	ind	18,600.00
S-4120	Electrical Distributors, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	1.013	ind	15,500.00
S-4121	Paul Simpson, Inc.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.919	ind	15,600.00
S-4122	W.T. Chang Contractors, Ltd.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.51	ind	7,500.00
S-4123	Douglas K. Takata	10/10/67-10 9/2007	Moanalua, Oahu, Hawaii	.566	ind	9,600.00
S-4124	Oahu Plumbing & Sheet Metal, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.574	ind	9,100.00
S-4125	Oahu Development Corp.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.574	ind	9,600.00
S-4126	Headrick Development, Inc.	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.574	ind	9,900.00
S-4127	Quality Sheetmetal Company, Limited	10/10/67-10/ 9/2007	Moanalua, Oahu, Hawaii	.574	ind	9,500.00
S-4129	United States of America (Federal Aviation Adm.)	6/ 1/67- 5/30/2032	Fort Ruger, Oahu, Hawaii	.099	fed	Gratis
S-4131	Tamotsu & Otome Sugiyama	10/19/67-10/18/87	Waianae, Oahu, Hawaii	1,272.000	past	2,800.00
S-4132	Miyoshi Uchinaka	10/19/67-10/18/2032	Ewa, Oahu, Hawaii	.010	r/w	6.00
S-4216	Armour Oil Hawaii, Ltd.	12/ 5/68-12/ 4/2033	Kapalama, Honolulu, Oahu, Hawaii	.11	r/w	915.00
S-4217	Ernest W. Albrecht	12/ 5/68-12/ 4/2033	Puea, Waianae, Oahu	.61	r/w	21.00
S-4218	Waipahu Soto Zen Temple Taiyoji	12/ 5/68-12/ 4/2033	Cemetery Lot, Pouhala, Waikele, Ewa, Oahu	.23	ele	12.00
S-4220	University of Hawaii	1/29/69- 1/28/2034	Kaimuki Tract 49, Kapahulu	8.00	ind	Gratis
S-4223	Hawaiian Telephone Company	3/ 1/66- 2/28/2031	Mt. Kaala, Mokuleia, Waialua, Oahu	.06	r/w	300.00
S-4228	U.S.A. (Army)	1/ 1/69-12/31/73	Por. of Oahu Railway & Land Co.'s Railroad	1.10	r/w	Gratis
S-4236	U.S.A. (Army)	7/30/68- 6/30/72	Parcel 16 former railway r/w from OR&L Co.	.02	r/w	Gratis
S-4258	Seatrains Terminals of Calif., Inc.	9/18/69- 6/11/89	Anuenue, Honolulu, Oahu	10.00	ind	78,300.00
S-4266	Mokuleia Ranch & Land Co., Ltd.	9/ 4/69- 9/ 3/94	Kuaokala & Kealia, Waialua, Oahu	1,884.695	past	2,350.00
S-4267	John K. & Sarah L. Nakoa	9/ 4/69- 9/ 3/2034	Palolo Valley, por. of Anuenue Elementary Sch.	.031	r/w	31.17
S-4268	Hualalai Construction Co., Ltd.	9/ 4/69- 9/ 3/2034	Moanalua, Honolulu, Oahu	.051	r/w	103.48
S-4290	Albert C. Kobayashi	3/12/70- 3/11/2010	Lot 1, Shafter Flats Ind. Dev., Unit III, Oahu	.232	ind	7,200.00
S-4291	Bert A. Kobayashi	3/12/70- 3/11/2010	Lot 2, Shafter Flats Ind. Dev., Unit III, Oahu	.233	ind	7,500.00
S-4292	Grace Brothers, Ltd.	3/12/70- 3/11/2010	Lot 3, Shafter Flats Ind. Dev., Unit III, Oahu	.527	ind	16,700.00
S-4293	Rite-Way Electric Co.	3/12/70- 3/11/2010	Lot 4, Shafter Flats Ind. Dev., Unit III, Oahu	.492	ind	15,900.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4294	Frank J. Fujii	3/12/70- 3/11/2010	Lot 5, Shafter Flats Ind. Dev., Unit III, Oahu	.523	ind	16,200.00
S-4304	Thomas D. & Karen C. Perkins	5/19/70- 5/18/2035	Por. of Gov't. Land of Kalawahine, Honolulu	.033	r/w	30.00
S-4305	Francis Y. Yoshida	5/19/70- 5/18/2035	Waimanalo, Koolaupoko. Oahu	.049	r/w	3.30
S-5006	University of Hawaii	6/ 1/67- 5/31/2032	Honolulu, Oahu, Hawaii	.110	ind	Gratis
S-5013	First Church of Christ, Scientist	5/25/67- 5/24/2032	Honolulu, Oahu, Hawaii	.050	ele	110.00

WAIMANALO AGRICULTURAL LEASES

S-3753	Sidney U. Goo	12/ 2/63-12/ 1/83	Lot 2, Waimanalo Agricultural Subdivision, Koolaupoko	3.429	agr	355.00
S-3754	Chozen Kanetake	12/ 2/63-12/ 1/83	Lot 3, Waimanalo Agricultural Subdivision, Koolaupoko	4.147	agr	360.00
S-3755	Ronald H. Deisseroth	12/ 2/63-12/ 7/83	Lot 4, Waimanalo Agricultural Subdivision, Koolaupoko	5.106	agr	350.00
S-3756	James Suenaga	12/ 2/63-12/ 1/83	Lot 5, Waimanalo Agricultural Subdivision, Koolaupoko	5.193	agr	290.00
S-3757	Raymond M. & Lily T. Kam	12/ 2/63-12/ 1/83	Lot 9, Waimanalo Agricultural Subdivision, Koolaupoko	3.742	agr	300.00
S-3758	Kazuto Yamada	12/ 2/63-12/ 1/83	Lot 10, Waimanalo Agricultural Subdivision, Koolaupoko	4.094	agr	350.00
S-3759	Kawahara Nursery & Landscaping Co., Ltd.	12/ 2/63-12/ 1/83	Lot 11, Waimanalo Agricultural Subdivision, Koolaupoko	4.486	agr	375.00
S-3760	Kaname & Ethel H. Tanaka	12/ 2/63-12/ 1/83	Lot 12, Waimanalo Agricultural Subdivision, Koolaupoko	4.635	agr	390.00
S-3761	Philip P. Minn Nurseries, Ltd.	2/ 2/64- 2/ 1/84	Lot 13, Waimanalo Agricultural Subdivision, Koolaupoko	4.014	agr	360.00
S-3762	Henry Hiroshi Miyamoto	2/ 2/64- 2/ 1/84	Lot 14, Waimanalo Agricultural Subdivision, Koolaupoko	5.137	agr	420.00
S-3763	John G. Kilbey & Charles K. Baker	12/ 2/63-12/ 1/83	Lot 15, Waimanalo Agricultural Subdivision, Koolaupoko	5.256	agr	410.00
S-3764	Evergreen Nurseries, Inc.	12/ 2/63-12/ 1/83	Lot 16, Waimanalo Agricultural Subdivision, Koolaupoko	3.23	agr	295.00
S-3765	Harry N. Okabe & Irene Okabe	12/ 2/63-12/ 1/83	Lot 25, Waimanalo Agricultural Subdivision, Koolaupoko	7.787	agr	560.00
S-3766	Rodney H. & Iris T. Fukui	12/ 2/63-12/ 1/83	Lot 26, Waimanalo Agricultural Subdivision, Koolaupoko	7.001	agr	725.00
S-3767	Ronald Lindsey	12/ 2/63-12/ 1/83	Lot 27, Waimanalo Agricultural Subdivision, Koolaupoko	7.195	agr	515.00
S-3768	Stanley S. Kawabata	12/ 2/63-12/ 1/83	Lot 28, Waimanalo Agricultural Subdivision, Koolaupoko	6.836	agr	515.00
S-3769	Mun On & Rosalind K. Chang	12/ 2/63-12/ 1/83	Lot 29, Waimanalo Agricultural Subdivision, Koolaupoko	5.515	agr	540.00
S-3770	Hiroshi & Sallie Ikene	12/ 2/63-12/ 1/83	Lot 30, Waimanalo Agricultural Subdivision, Koolaupoko	5.794	agr	430.00
S-3771	Samuel L.W. Kapahua	12/ 2/63-12/ 1/83	Lot 31, Waimanalo Agricultural Subdivision, Koolaupoko	10.005	agr	1,000.00
S-3772	Walter S.S. Zane & Florence F. Zane	12/ 2/63-12/ 1/83	Lot 32, Waimanalo Agricultural Subdivision, Koolaupoko	6.521	agr	1,300.00
S-3773	Lloyd W. Martin	12/ 2/63-12/ 1/83	Lot 34, Waimanalo Agricultural Subdivision, Koolaupoko	9.565	agr	650.00
S-3774	Katsumi Mashita	12/ 2/63-12/ 1/83	Lot 35, Waimanalo Agricultural Subdivision, Koolaupoko	8.541	agr	585.00
S-3775	Rainbow Properties, Inc.	12/ 2/63-12/ 1/83	Lot 36, Waimanalo Agricultural Subdivision, Koolaupoko	8.860	agr	600.00
S-3776	James F. Ching	12/ 2/63-12/ 1/83	Lot 37, Waimanalo Agricultural Subdivision, Koolaupoko	8.513	agr	490.00
S-3777	Raymond Y.C. Ching	12/ 2/63-12/ 1/83	Lot 39, Waimanalo Agricultural Subdivision, Koolaupoko	7.883	agr	515.00
S-3778	Melvin Y.S. Chang	12/ 2/63-12/ 1/83	Lot 40, Waimanalo Agricultural Subdivision, Koolaupoko	5.686	agr	420.00
S-3779	James A. Nakano & Takashi Ishihara	12/ 5/63-12/ 4/83	Lot 41, Waimanalo Agricultural Subdivision, Koolaupoko	6.032	agr	435.00
S-3780	Marion Freitas & Chiharu Yoneda	12/ 2/63-12/ 1/83	Lot 46, Waimanalo Agricultural Subdivision, Koolaupoko	6.705	agr	300.00
S-3782	Peter A. & Gertrude Pak Chong	12/ 2/63-12/ 1/83	Lot 38, Waimanalo Agricultural Subdivision, Koolaupoko	7.136	agr	550.00
S-3783	Henry, Joseph, & Theresa Castillo	2/ 5/64- 2/ 4/84	Lot 1, Waimanalo Agricultural Subdivision, Koolaupoko	11.092	past	705.00
S-3784	Edward D. & Carroll Sultan	12/ 2/63-12/ 1/83	Lot 22, Waimanalo Agricultural Subdivision, Koolaupoko	19.481	past	730.00
S-3786	George & Hazel K. Ilae	12/ 5/63-12/ 4/93	Lot 6, Waimanalo Agricultural Subdivision, Koolaupoko	4.630	agr	500.00
S-3787	William N.K. & Mary Y.Y. Kamai, Jr.	12/ 2/63-12/ 1/93	Lot 7, Waimanalo Agricultural Subdivision, Koolaupoko	3.54	agr	245.00
S-3789	Shirley May Sumic	12/ 5/63-12/ 4/93	Lot 42, Waimanalo Agricultural Subdivision, Koolaupoko	1.146	agr	380.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3792	Elizabeth Heavey & Eleanor Kaleimomi McLellan	12/ 5/63-12/ 4/93	Lot 45, Waimanalo Agricultural Subdivision, Koolaupoko	1.100	agr	380.00
S-3793	Robert L. & Anna K. Ham	12/ 2/63-12/ 1/93	Lot 18-A, Waimanalo Agricultural Subdivision, Koolaupoko	6.490	agr	950.00
S-3794	Arthur H. Zsupnik, dba Art's Liquidation Co.	12/ 2/63-12/ 1/93	Lot 18-B, Waimanalo Agricultural Subdivision, Koolaupoko	5.744	agr	700.00
S-3854	Stewart L. & Arla Wagers Wade	8/10/64- 8/ 9/84	Lot 47, Waimanalo Agricultural Subdivision, Koolaupoko	5.492	agr	550.00
S-3856	Fred M. & Toshiko Nakayama	8/10/64- 8/ 9/84	Lot 9, Waimanalo Farm Lots, Koolaupoko	9.474	agr	570.00
S-3858	Warren Q.K. Yee & Ellen S.P. Yee	8/10/64- 8/ 9/84	Lot 8, Waimanalo Agricultural Subdivision, Koolaupoko	3.66	agr	510.00
S-3859	Harry N. & Irene M. Okabe	8/10/64- 8/ 9/84	Lot 56-A & 56-B, Waimanalo Farm Lots, Koolaupoko	8.92	agr	580.00
S-3860	Yong Kam & Helen Y. Kam	8/13/64- 8/12/84	Lot 31, Waimanalo Farm Lots, Koolaupoko	9.862	agr	640.00
S-3861	Barbara Ruth Malouff & Norma Renee Taliaferro	8/10/64- 8/ 9/84	Lot 33, Waimanalo Agricultural Subdivision, Koolaupoko	20.060	past	900.00
S-4007	B & G Enterprises	9/12/66- 9/11/86	Waimanalo Agricultural Subdivision, Lots 23 & 24, Koolaupoko, Oahu 4-1-27	34.438	agr	1,000.00
S-4008	Walter F. L. Chong & Evelyn Z. Chong	9/12/66- 9/11/86	Lot 38, Waimanalo Agricultural Subdivision, 4-1-27:14	20.395	agr	960.00
S-4009	Roy M. Shiraki	9/12/66- 9/11/86	Lot 28, Waimanalo Farm Lots Subdivision, Koolaupoko, Oahu 4-1-25:54	9.45	agr	800.00
S-4010	Charles D. Lake	9/12/66- 9/11/86	Lot 67, Waimanalo Farm Lots Subdivision Koolaupoko, Oahu 4-1-08	7.021	agr	1,030.00
S-4011	Thomas R. Beveridge & Matsuko Beveridge	9/12/66- 9/11/96	Lot 43, Waimanalo Agricultural Subdivision, Koolaupoko, Oahu 4-1-08	1.032	agr	420.00
S-4093	Victor & Harriet Towne Gega	3/20/67- 3/19/97	Lot 44, Waimanalo Agricultural Subdivision, Koolaupoko, Oahu 4-1-08	1.002	agr	450.00
S-4095	Olomana Golf Links, Inc.	5/ 4/67- 5/ 3/2007	Waimanalo, Hawaii	129.859	bus	16,500.00
S-4101	Foremost Dairies-Hawaii, Ltd.	7/20/67- 7/19/97	Waimanalo, Hawaii	195.810	agr	8,100.00
S-4133	Henry A. Gomes & Betty Jo Gomes	10/26/67-10/25/87	Waimanalo, Hawaii	8.450	agr	2,000.00
S-4296	H. William & Jo Ann Goebert	3/12/70- 3/11/90	Lot 17, Waimanalo Agriculture Subdivision	11.001	agr	2,010.00
S-4297	Frederick A. Wong & Thomas Tengan	3/12/70- 3/11/90	Lot 19, Waimanalo Agriculture Subdivision	14.054	agr	4,400.00
S-4298	Rosehill & Titcomb	3/12/70- 3/11/90	Lot 20, Waimanalo Agriculture Subdivision	15.587	agr	3,600.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3550	William E. & Evelyn P.O. Fernandes	8/21/56- 8/20/71	Lots 81, Anahola Lots, Kawaihau, Puna, Kauai	4.48	agr	25.00
3551	Natsuyo Iwamoto	8/21/56- 8/20/71	Lot 7, Wailua Rice & Kula Lots, Wailua, Puna	3.84	agr	82.00
3552	Magoichi Nishimoto	8/21/56- 8/20/71	Lot 3, Wailua Rice & Kula Lots, Wailua, Puna	5.07	agr	90.00
3554	McBryde Sugar Co., Ltd.	8/21/56- 8/20/71	Lot 10, Hanapepe Rice & Kula Lots, Waimea, Kona	11.07	agr	337.00
S-3555	Haruo Kato	8/21/56- 8/20/71	Hanapepe, Kona, Waimea, Kauai	21.043	agr	112.64
3556	Agnes K. Rogers	8/21/56- 8/20/71	Lot 33-A, Gov't. Remnants, Waimea Valley, Kona	0.29	agr	12.00
3557	Toshio Hashimoto	8/21/56- 8/20/71	Lot 25, Hanapepe Rice & Kula Lots, Hanapepe, Waimea, Kona	4.08	agr	96.00
3558	Katherine V. Molale	8/21/56- 8/20/77	Lot 61-A, Anahola Lots, Koolau	0.23	res	36.00
3560	Antone Martin, Jr.	8/21/56- 8/20/77	Kuwaawaa Pasture Reserve, Kalaheo, Kona	183.00	past	375.00
3577	Kilauea Sugar Co., Ltd.	1/ 1/59-12/31/79	Papaa, Hanalei	7.12	r/w	200.00
S-3625	Manuel S. Andrade	3/15/61- 3/14/81	Kalaheo Reservoir No. 6, Kalaheo Homesteads, Koloa, Kona	7.34	past	36.00
S-3626	George B. Fernandes	3/15/61- 3/14/81	Pasture Reserve "A", Kalaheo Homesteads, Kona	33.666	past	537.85
S-3627	Toshiharu Yama & Richard C. Nagao	3/15/61- 3/14/73	Gov't. Land of Wailua, Lihue	9.96	agr	200.00
S-3628	Vernon K. White	3/15/61- 3/14/76	Lots 11-16, Anahola Beach Lots, Anahola, Koolau	2.85	agr	100.00
S-3629	Subramuniya Yoga Order	3/15/61- 3/14/86	Land Adj. to Lot 30, Wailua Homesteads, Wailua, Puna	2.960	rec	180.00
S-3641	William K. Medeiros	8/ 8/61- 8/ 7/81	Lots 47-A & 47-B, Omao Homesteads, Omao, Koloa	6.08	past	180.00
S-3644	Samuel Thronas	7/ 9/61- 7/ 8/71	Lot 24, Wailua Rice & Kula Lots, Wailua, Lihue	13.86	past	750.00
S-3645	Masao Takatsuki	5/11/61- 5/10/81	Par. 2, Wailua Pasture Lands, Wailua, Puna, Kawaihau	8.97	past	251.00
S-3646	Samuel Thronas	5/11/61- 5/10/81	Por. Gov't. Land of Wailua, Wailua, Puna	25.67	past	400.00
S-3649	Francis M. F. Ching & Michael J. K. Ching	5/11/61- 5/10/91	Lot 28, Lawai Homesteads, Lawai, Koloa	7.540	past	421.00
S-3650	August Aguiar	7/ 9/61- 7/ 8/91	Lot 5-B, Kapaa Rice & Kula Lots, Kapaa, Puna	1.87	agr	180.00
S-3651	Harrison Kauai Johnson	7/ 9/61- 7/ 8/81	Lot 34, Kapaa Homesteads, 1st Series Kapaa, Puna	5.75	past	435.00
S-3663	Takeshi & Betty Yamamoto	9/6/61- 9/15/71	Lots 58 & 61, Anahola Lots, Anahola, Koolau	2.65	agr	60.00
S-3664	Kekaha Sugar Co., Ltd.	8/18/61-12/31/68	Old Mana School Lot, Por. Gov't. Land of Kekaha, Kekaha, Waimea	14.93	cane	253.00
S-3665	Richard Vidinha	10/16/61-10/15/81	Lots 15 & 16, Lawai Homesteads, Lawai, Kona	16.45	past	48.00
S-3666	William & Evelyn Fernandes	10/16/61-10/15/91	Lots 33, 34, 35 & 36, and Lots 36-A 38 & 39, Hanalei Homesteads, Halelea	13.64	agr	175.00
S-3667	Tsutaoka Okasako	9/ 1/61- 8/31/81	Lot 173, Kapaa Homesteads, 3rd Series, Kawaihau, Puna	27.40	agr	650.00
S-3668	Lihue Plantation Co., Ltd.	8/18/61- 6/30/71	Gov't. Lands at Kapaa, Wailua, Kawaihau, Puna	28.78	r/w	3,500.00
S-3671	William P. & Mary Jo Wilson	4/14/61- 4/13/81	Kokee State Park, Waimea, Kauai	.47	bus	276.00
S-3674	William E. Fernandes	12/18/61-12/17/86	Lot 25, Wailua Rice & Kula Lots, Wailua, Kawaihau, Puna	4.41	bus	250.00
S-3675	Hiromu & Toneyo Choriki	2/15/62- 2/14/83	Lot 82, Hanapepe Town Lots, Hanapepe, Waimea	0.37	res	600.00
S-3676	Manuel S. Andrade	2/15/62- 2/14/82	Tract 2-A Hanapepe Valley Pasture Lands, Kona, Waimea	46.25	past	180.00
S-3678	Kekaha Sugar Co., Ltd.	12/18/61-12/17/81	Lot 62, Gov't. Remnants, Ili of Neamo, Waimea Valley	3.70	past	48.00
S-3679	William K. Lemn	12/18/61-12/17/91	Lot 66, Anahola Lots, Anahola, Koolau	0.61	res	240.00
S-3680	Lihue Plantation Co., Ltd.	12/18/61-12/17/86	Lot 44, Wailua Rice & Kula Lots, Wailua, Puna	5.40	agr	220.00
S-3690	Manuel S. Andrade	1/27/62- 1/26/82	Pasture Reserve "C", Kalaheo Homesteads, 2nd Series, Kalaheo, Kona	32.55	past	367.48
S-3691	Joseph S. Brun	3/27/62- 3/26/82	Lots A & B, w/Easement 1, Weliweli, Koloa, Kona	73.258	past	264.14
S-3692	August Aguiar	1/27/62- 1/26/82	Lot 1, Kapaa Agr. Lots, Kawaihau, Puna	66.28	past	3,301.00
S-3693	McBryde Sugar Co., Ltd.	1/27/62- 1/26/82	Lots 12-A-2 & 13-A, Hanapepe Rice & Kula Lots, Hanapepe Valley, Waimea, Kona	4.04	agr	104.00
S-3694	Shoichi Nagamine	1/27/62- 1/26/82	Lots 12-A-1, 12-B & 13-B, Hanapepe Rice & Kula Lots, Hanapepe Valley, Kona, Waimea	7.83	agr	190.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3704	James K. Oshita	6/ 1/62- 5/31/82	Lots 11 & 12, Anahola Lots, Kawaihau, Koolau	1.00	agr	51.00
S-3705	Manuel S. Andrade	5/ 2/62- 5/ 1/82	Lot 22, Wailua Rice & Kula Lots, Wailua, Lihue, Puna	8.28	past	200.00
S-3706	Waimea Sugar Mill Co., Ltd.	5/ 2/62- 5/ 1/82	Lot 61, Gov't. Remnant Ili of Halelopo, Waimea Valley, Waimea, Kona	7.41	cane	45.00
S-3707	Manuel Andrade, Jr.	7/ 1/62- 6/30/82	Tract 1, Hanapepe Valley Pasture Land, Waimea, Kona	45.24	past	198.00
S-3711	County of Kauai	11/15/62-11/14/2027	Gov't. Land at Hanapepe, Waimea, Kona, Kauai	10.426	cty	Gratis
S-3713	County of Kauai	11/15/62-11/14/2027	Abandoned WW II Underground tunnel at Puuopae, Waimea, Kekaha & Hanapepe Valley, Kauai		cty	Gratis
S-3733	Konko Kyo Church	2/25/63- 2/24/93	Lot 5, Hanapepe Rice & Kula Lots, Hanapepe, Kona	1.84	ele	240.00
S-3734	Tokiwa Shimonishi	2/25/63- 2/24/83	Lot 54-A, Hanapepe Town Lots, Waimea, Kona	0.10	bus	455.00
S-3755	McBryde Sugar Co., Ltd.	4/26/63- 4/25/83	Lot 9-A, Hanapepe Rice & Kula Lots, Waimea, Kona	7.23	agr	760.00
S-3736	Susumu Nakamura	4/26/63- 4/25/83	Anahola Gov't. Remnant, Parts 1 & 2, Kawaihau, Koolau	3.09	past	122.00
S-3737	Island Holidays, Ltd.	2/25/63- 2/24/83	Wailua, Kawaihau, Puna, Kauai	15.69	bus	1,500.00
S-3795	Hawaiian Telephone Company	11/26/63-11/25/2013	Hanapepe and Puu Ka Pele, Waimea, Kona	1.042	r/w	172.00
S-3797	Richard and Concepcion Vidinha	11/25/63-11/24/88	Kalaheo Pasture Reserve B, Kalaheo Homesteads, 2nd Series, Koloa	9.85	past	60.00
S-3798	George B. Fernandes	11/26/63-11/25/83	Por. Gov't. (Crown) Land of Wailua, Kawaihau, Puna	13.23	past	75.00
S-3799	Hitoshi Miyabara	11/26/63-11/25/83	Lot 8, Hanapepe Rice & Kula Lots, Waimea, Kona	2.43	agr	97.20
S-3800	Noburo Munechika	1/25/64- 1/24/84	Lots 11 & 14, Hanapepe Rice & Kula Lots, Waimea, Kona, Kauai	2.930	agr	355.00
S-3801	Clarence K. Nonaka	1/25/64- 1/24/84	Lot 22, Hanapepe Rice & Kula Lots, Waimea, Kona	7.66	agr	150.00
S-3802	Hanako A. Duarte	1/25/64- 1/24/84	Lot 24, Hanapepe Rice & Kula Lots, Waimea, Kona	6.10	agr	725.00
S-3803	Yuku Ishida	1/25/64- 1/24/74	Lot 83, Anahola Lots, Kawaihau, Koolau	1.33	agr	90.00
S-3804	Toraji & Chuichi Oshima	11/26/63-11/25/83	Lot 68, Anahola Lots, Koolau	1.36	agr	256.00
S-3814	Olokele Sugar Co., Ltd.	4/13/64- 4/12/84	Gov't. Lands, Sections A, B, C & D, Hanapepe, Waimea, Kona	1,888.05	cane	37,900.00
S-3815	Joseph S. Brun & Joseph Rita	6/12/64- 6/11/84	Gov't. Lands, Section E, Hanapepe, Waimea, Kona	287.13	past	810.00
S-3816	Victor K. & Betty Givan	4/13/64- 4/12/84	Lot 153, Parts 1 & 2, Kapaa Homesteads, 2nd Series, No. & So. Olohena Kawaihau	19.15	past	730.00
S-3827	East Kauai Water Co., Ltd.	5/11/64- 5/10/94	Drainage basins of North Wailua, Kapaa, Anahola & Hanalei Rivers, Kapaa, Halelea		wtr	90,000.00
S-3828	Lihue Plantation Co., Ltd.	5/11/64- 5/10/94	Por. Moloaa Forest Reserve, Papaa, Moloaa, Kawaihau	125.00	wtr	2,400.00
S-3829	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	4.64	agr	155.00
S-3830	Robert Y. & Shimayo Y. Hamamura	5/11/64- 5/10/84	Lots 8, 9 & 10, Anahola Lots, Kawaihau	2.21	agr	70.00
S-3831	Kauai Resort Hotel	5/18/64- 5/17/2029	Lot A-2, Parts 1 & 2, Wailua Resort Site, Lihue, Kauai	2.497	bus	10,500.00
S-3832	Ichiji & Masako Matsumura	5/18/64- 5/17/2019	Por. Gov't. (Crown) Land, Kapaa, Kawaihau	0.59	bus	1,890.00
S-3833	Aloha Papaya Co., Ltd.	5/18/64- 5/17/74	Por. Gov't. (Crown) Land, Kapaa, Kawaihau, Puna	1.10	ind	1,400.00
S-3840	Kauai Resort Hotel, Inc.	7/ 6/64- 7/ 5/2029	Lot A-1, Wailua Resort Site, Wailua, Kauai	6.093	bus	18,000.00
S-3841	Wailua Beach Club & Cottage Hotel, Inc.	7/ 6/64 7/ 5/2029	Lots B, C, D, E, Wailua Resort Site, Wailua, Kauai	22.833	bus	31,500.00
S-3842	Bank of Hawaii	7/ 6/64 7/ 5/94	Lots 88-A & 88-B, Hanapepe Town Lots, Kauai	.452	bus	1,500.00
S-3852	U.S.A.	8/20/64- 8/19/2029	Bonham A.F.B., Waimea (Kona), Kauai	189.56	fed	Gratis
S-3863	Kauai County Y.W.C.A.	4/ 1/65- 3/31/2020	Lots 24 & 25, por. of Gov't. (Crown) Lands of Waimea & Kokee Park, Kauai	3.607	rec	125.00
S-3876	Kilauea Sugar Co., Ltd.	1/11/65- 1/10/85	Former Koolau School Lot, Hanalei, Kauai	1.99	agr	50.00
S-3877	John M. Shimonishi	1/11/65- 1/10/85	Lot 6-A, Hanapepe Rice & Kula Lots, Kauai	0.95	agr	40.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3878	Ume N. Oshita	1/11/65- 1/10/85	Lot 80, Anahola Lots (H.H.L.), Anahola, Kawaihau, Kauai	2.357	agr	300.00
S-3879	Kauai Electric Co., Ltd.	1/11/65- 1/10/2030	Hanapepe Transformer Site, Waimea, Kauai	.017	r/w	26.00
S-3880	Olaf E. Thronas	1/11/65- 1/10/85	Lots 32 & 33, Wailua Rice & Kula Lots, Wailua, Kauai	13.830	past	120.00
S-3881	Samuel K. Thronas	2/ 9/65- 2/ 8/85	Lots 23-A & 23-B, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	19.405	past	500.00
S-3882	East Kauai Water Co., Ltd.	1/11/65- 5/10/94	Lot 39, Kapaa Homesteads, 1st Series, Kapaa, Kauai	0.36	res	100.00
S-3883	Charles B. Shimomura	1/11/65- 1/10/85	Lot 58-A, Hanapepe Town Lots, 1st Series, Hanapepe, Waimea, Kauai	.181	bus	350.00
S-3884	Kauai Kai, Inc.	1/11/65- 1/10/2020	Lot 12, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai	.785	bus	2,000.00
S-3885	Manuel Andrade, Jr.	3/19/65- 3/18/85	Lot 7-A, Hanapepe Rice & Kula Lots, Hanapepe, Waimea, Kauai	3.08	agr	528.00
S-3889	Edward C. Shota	3/26/65- 3/25/85	Lots 16, 17 & 18, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	12.300	agr	501.00
S-3890	Minoru Sugita	1/25/65- 1/24/85	Lots 8-A & 8-B, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	8.430	agr	256.00
S-3892	Masao Takatsuki	1/25/65- 1/24/85	Lots 12, 13 & 14, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	6.15	agr	180.00
S-3893	Koon Chow Lai	1/25/65- 1/24/85	Lots 15 & adjoining Gov't. Land, Wailua Rice & Kula Lots, Wailua, Kawaihau, Kauai	16.85	agr	280.00
S-3894	Edward K. Taniguchi	1/25/65- 1/24/85	Lots 2, 3, 26-A, 27-A, 29-A, 30-A, Hanalei Homesteads, Hanalei, Kauai	13.53	past	315.00
S-3895	William E. Fernandes	1/25/65- 1/24/85	Lots 26, 27, 30 & 37, Hanalei Homesteads, Hanalei, Kauai	7.30	agr	150.00
S-3910	Betty Wakasa Ushigome	4/14/65- 4/13/85	Lot 54-B, Hanapepe Town Lots, 1st Series, Hanapepe, Kauai	.10	bus	240.00
S-3911	Kauai Electric Co.	4/14/65- 4/13/2030	Por. of Gov't. (Crown) Land of Wailua & por. of Gov't. Land of N. Oloheua & Waipouli, Lihue & Kawaihau, Puna, Kauai	26.42	r/w	515.00
S-3913	Samuel K. Thronas	4/14/65- 4/13/85	Lots 5 to 16, 5-A to 16-A, Hanalei Homesteads, Hanalei, (Halelea), Kauai	66.70	past	400.00
S-3914	Manuel Andrade, Jr.	4/14/65- 6/30/82	Lot 26, Hanapepe Rice & Kula Lots, Hanapepe, Kauai	7.930	past	45.00
S-3917	U.S.A.	2/ 1/65- 1/31/2030	Kokee Pacific Missile Range Facility, Waimea, Kauai	22.900	fed	600.00
S-3928	U.S.A.	9/ 1/65- 8/31/2030	Kokee, Waimea, Kauai	8.450	fed	Gratis
S-3937	County of Kauai	11/ 1/65-10/31/2030	Parcels A-1, G, H, I, J & K, Hanapepe, Waimea, Kauai	3.151	cty	Gratis
S-3939	Pacific Hawaii Fruit Co., Inc.	12/16/65-12/15/85	Lots 32-A, 33-A, 34-A, 35-A, 38 & 40, Kapaa Homesteads, 1st Series, Kapaa, Kawaihau (Puna), Kauai	4.750	agr	250.00
S-3940	McBryde Sugar Co., Ltd.	11/16/65-11/15/2030	60' wide non-exclusive easement over & across por. of Gov't. (Crown) Lands of Hanalei, Wailua & Kalaheo, Kauai	74.38	r/w	925.00
S-3941	Rehabilitation Unlimited, Kauai	11/16/65-11/15/2020	Parcel B, Wailua Coconut Grove, Wailua, Kawaihau (Puna), Kauai	0.813	bus	220.00
S-3942	Kauai Kai, Inc.	11/16/65-11/15/2020	Lots 10-A & 11-A, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai	.697	bus	1,800.00
S-3943	Joseph H. Chu	11/16/65-11/15/85	Lot 19, Hanapepe Rice & Kula Lots, Waimea, Kauai	1.14	agr	36.00
S-3944	Pacific Hawaii Fruit Co., Inc.	11/16/65-11/15/85	Lots 40-A, 41-A, 64 & 65, Kapaa Homesteads, 1st Series, Kapaa, Puna (Kawaihau), Kauai	3.995	agr	57.00
S-3945	Leroy K.A. Aguiar	12/16/65-12/15/2000	Lot 35, Kapaa Homesteads, 1st Series, Kapaa, Kawaihau (Puna), Kauai	4.11	agr	600.00
S-3946	Pacific Hawaii Fruit Co., Inc.	12/16/65-12/15/85	Lots 2-B, 5 & 6, Wailua Rice & Kula Lots, Wailua, Kawaihau (Puna), Kauai	10.323	agr	655.00
S-3952	U.S.A. (Navy)	12/17/65-12/16/2030	Waimea, Kauai	248.220	fed	Gratis
S-3955	Joseph Prigge	3/19/66- 3/18/86	Lots 39-A & 52, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	2.60	agr	48.00
S-3956	Pacific Hawaii Fruit Co., Inc.	3/19/66- 3/18/2001	Lots 39-A, 49 & 50, Kapaa Homesteads 1st Series Kawaihau (Puna), Kauai	4.41	agr	150.00
S-3957	Joseph Julian & Eleanor L. De Costa	2/17/66- 2/16/2031	Kalaheo, Koloa (Kona), Kauai	.025	r/w	7.50

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-3958	Edwin Martin	3/19/66- 3/18/86	Lot 33, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	9.50	past	400.00
S-3959	Frank D. Silva	3/19/66- 3/18/86	Lot 3, Kapaa Rice & Kula Lots Kawaihau (Puna), Kauai	25.71	past	703.00
S-3960	Hitoshi & Hatsue K. Miyabara	2/17/66- 2/16/86	Lots 18 & 21, Hanapepe Rice & Kula Lots, Kona (Waimea), Kauai	6.983	agr	160.00
S-3969	Shigeo & Eleanor K. Takeuchi	5/26/66- 5/25/86	Lot 21-A, Hanapepe Town Lots, 1st Series, Waimea (Kona), Kauai	.148	bus	600.00
S-3970	Manuel Andrade, Jr.	5/26/66- 5/25/86	Por. of Lots 27 & 28 & all of Lots 29 to 34, Hanapepe Rice & Kula Lots, Waimea (Kona), Kauai	22.65	past	90.00
S-3971	McBryde Sugar Co., Ltd.	5/26/66- 5/25/2031	Pasture Reserve C, Kalaheo Homesteads, 2nd Series, Koloa (Kona), Kauai	0.666	r/w	20.00
S-3972	Pacific Hawaii Fruit Co., Inc.	5/26/66- 5/25/86	Por. of Gov't. (Crown) Land between Kapaa Stream & Kapaa Homesteads 1st & 3rd Series, Kawaihau (Puna), Kauai	33.000	agr	140.00
S-3973	Leialoha Dung	5/26/66- 5/25/2031	Lot 25, Hanapepe Rice & Kula Lots, Waimea (Kona), Kauai	.174	r/w	6.50
S-3974	Patrick & Rosaline T. Lopez, Sr.	5/26/66- 5/25/86	Lots 1, 23, 33-A, 34-A & 35-A, Hanalei Homesteads, Hanalei, Kauai	13.070	past	305.00
S-3975	Pacific Hawaii Fruit Co., Inc.	5/26/66- 5/25/86	Lots 1, 1-A, 2, 2-A, 3, 3-A, 4, 4-A, 5, 5-A, 6, 6-A, 7, 7-A, 10 & 12, Kapaa Homesteads, 1st Series, Kawaihau (Puna), Kauai	26.720	agr	300.00
S-3976	Pacific Hawaii Fruit Co., Inc.	5/26/66- 5/25/86	Lots 8, 8-A, 9, 9-A, 10-A, 11, 11-A, 12-A, 13-A, 14-A, 15-A, 16-A, 17, 17-A, 18, 18-A, 19, 19-A, Kapaa Homesteads, 1st Series, Kawaihau, (Puna), Kauai	23.920	agr	300.00
S-3977	Richard Ueoka & Barbara J. Ueoka	5/26/66- 5/25/2021	Lot 23, Hanapepe Town Lots, 1st Series, Waimea (Kona), Kauai	.16	bus	248.00
S-3987	Peter H. & Helen H. Souza	8/ 1/68- 7/31/88	Lot 2-A, Kapaa Rice & Kula Lots, Puna, Kawaihau, Kauai	.987	past	126.00
S-3988	Joseph Texeira	7/14/66- 7/13/86	Portion of Gov't. Land, Lots 20, 21, 22, 25, 26, 28 & 29-B, Kapaa Homesteads, 1st Series, Kawaihau, Kauai 4-6-03	18.110	agr	500.00
S-3989	Ronald T. Matsumura & Harry Fukushima	8/13/66- 8/12/86	Portion of Gov't. Land, Kapaa Homesteads, 1st Series, Lot 36, Kawaihau, Kauai 4-6-05	6.240	agr	800.00
S-3990	Samuel Thronas	7/14/66- 7/13/86	Portion of Gov't. Land, Hanalei Valley, Halelea, Kauai 5-3-01:3	461.600	past	1,691.00
S-3991	Ernest Palmeira	7/14/66- 7/13/86	Portion of Gov't. Land, Kapaa Homesteads, 1st Series, Lot 13, 14, 15, 16, 30-A, 31, 31-A & 32, Kawaihau, Kauai	15.560	past	120.00
S-3992	A. Duncan MacLean	7/14/66- 7/13/2031	Portion of Gov't. Land, Lawai, Koloa, Kauai 2-5-02	.037	r/w	18.00
S-3993	Ichiji Matsumura & Masako Matsumura	7/14/66- 7/13/2001	Portion of Gov't. Land, Kapaa Homesteads, 1st Series, Lot 37, Kawaihau, Kauai 4-6-05	3.000	agr	630.00
S-3994	Joseph Texeira	7/14/66- 7/13/86	Portion of Gov't. Lands, Kapaa Homesteads, 1st Series, Lots 20-A, 21-A, 22-A, 23, 23-A, 24, 24-A, 25-A, 26-A, 27, 27-A, 28-A, 29-C, 30, Kawaihau, Kauai	14.090	agr	801.00
S-3995	Peter H. Souza & Helen H. Souza	7/14/66- 7/13/86	Portion of Gov't. Land, Kapaa R & K Lots, Lot 2-A-2, Kawaihau, Kauai 4-5-15	10.562	agr	240.00
S-4021	Manuel J. Fernandes	11/17/66-11/16/86	Gov't. Land & Spring Res., Kalaheo Homesteads, Kalaheo, Koloa, Kauai 2-8-67	1.760	past	48.00
S-4022	Hawaiian Telephone Co.	11/17/66-11/16/2031	Portion of Lot 2-A-2, Kapaa Rice & Kula Lots, Kawaihau, Kauai 4-5-15	.156	r/w	6.00
S-4023	Tetsuro Maeda & Yoshio Hiranaka, dba T & Y	11/17/66-11/16/2021	Lot 9, Nawiliwili Harbor Lots, Nawiliwili, Lihue, Kauai 3-2-04:1	.618	bus	1,200.00
S-4030	Henry I. & Margaret K. Nosaka & Wallace K. & Mikie N. Karimoto	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.730	res	89.00
S-4031	William Alexander, Benjamin Alexander & Henry Alexander	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.920	res	118.00
S-4032	F.W. Broadbent, Dora B. Pratt & Alice B. Crabbe	1/ 1/66-12/13/75	Puu Ka Pele, Waimea, Kauai	1.020	res	117.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4034	G.M. Coney, William H. Coney, Harvey A. Hutton, Malcolm G. Hutton & Clarissa G. Gerdes	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.790	res	101.00
S-4035	Yoshinari Shimatsu & Donald Shimatsu	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.99	res	107.00
S-4036	Bishop Trust Co., Ltd., Trustee for Elizabeth Middleton & Barbara H. Davis	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.070	res	144.00
S-4037	George K. Yamamoto & Katherine K.J. Yamamoto	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.910	res	104.00
S-4038	Richard Vierra & Kathleen Vierra, Joseph Vierra & Clara Vierra	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.030	res	125.00
S-4039	Bert O. Wade & Marion C. Wade	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.030	res	118.00
S-4040	Beverly P. Brun & Violet V. Prigge	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.030	res	111.00
S-4041	Joseph DeCosta, Sr. & Jean E. Nadatani	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.010	res	116.00
S-4042	Charles H. Hustace, Sr. & Diane M. Hustace	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.01	res	121.00
S-4043	Hawaiian Association of Seventh-Day Adventists	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.110	res	127.00
S-4044	Manuel & Mary B. Rivera	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.050	res	114.00
S-4045	Tsukasa Miyake & Mitsuyo U. Miyake	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.900	res	109.00
S-4046	Joaquin S. Arruda & Lucy C. Arruda	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.120	res	129.00
S-4047	Ah Wo Ahana & Hatsue Ahana, Calvin Tokita & Phyllis Tokita	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.08	res	124.00
S-4048	Valdemar Knudsen & Helen L. Knudsen	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	3.660	res	271.00
S-4049	Charles T. & Alice J. Wallis	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.050	res	86.00
S-4050	William A. & Marjorie I. Thiis	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.980	res	81.00
S-4051	John F. & Gay Lee Bylander	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.960	res	85.00
S-4052	John S. & Helen E. Sheehan	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.810	res	62.00
S-4053	Charles A. & Rebecca R. Harker	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.790	res	68.00
S-4054	Hans W. & Anna J. Hansen	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.470	res	109.00
S-4055	Hong Min & Violet C.L. Hee	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	2.000	res	197.00
S-4056	W. Harwood Danford & Harwood Danford Williamson	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.820	res	140.00
S-4057	Howard D. Briner & Norma Briner	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.660	res	126.00
S-4058	Olen V. & Mildred P. Andrew	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.710	res	53.00
S-4059	John C. & Dorothy Ann F. Hance	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.840	res	73.00
S-4060	Patricia Smith Rice	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.900	res	138.00
S-4061	Juliet Rice Wichman	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.680	res	51.00
S-4062	John H.R. Plews	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.010	res	78.00
S-4063	Edith Rice Plews	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.460	res	126.00
S-4064	Satoru Kudaishi & Jean M. Kudaishi	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.770	res	54.00
S-4065	George R. Ewart, III	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.44	res	143.00
S-4066	Patricia Smith Hodgins	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.110	res	77.00
S-4067	Sterling E. & Bonnie C. Dunford and William S. Dunford	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.210	res	84.00
S-4068	Lindsay A. & Roberta I. Faye	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.80	res	69.00
S-4069	Alfred J. & Elizabeth K. Toulon & Wilfred J. & Anne K. Baldwin	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.960	res	83.00
S-4070	Thomas R. Gentry & Ada M. Gentry	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.440	res	108.00
S-4071	Kathryn T. Dinham	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.07	res	85.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4072	Arthur R. & Lois L. Glaisyer	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.290	res	25.00
S-4073	George G. & Mary D.C. Silva	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.530	res	39.00
S-4074	Edwin T. & Hong Lin W. Pettevs	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.56	res	40.00
S-4075	Richard and Concepcion Vidinha	1/ 1/66- 12/31/80	Puu Ka Pele, Waimea, Kauai	.550	res	43.00
S-4076	Frank & Miriam G. Rita	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.670	res	53.00
S-4077	Joseph & Violet Rita	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.790	res	56.00
S-4078	Martin & Janine F. Reis	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.440	res	33.00
S-4079	John & Stella Rita, Jr.	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.580	res	47.00
S-4080	Ichiro Okada & Elsie H. Okada	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.530	res	43.00
S-4081	William R. Warren	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.200	res	83.00
S-4082	Nelson K. Hardenbergh	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.420	res	105.00
S-4083	Kenji Ego & Winifred S. L. Ego	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.930	res	72.00
S-4084	Kathryn Hulme & Marie L. Habets	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.510	res	35.00
S-4085	Melvin P. Christian & Annie K. Christian	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.650	res	55.00
S-4086	Wilson M. Pang & Alica A. Pang	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.900	res	69.00
S-4087	Mina M. Marcellino	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.620	res	46.00
S-4088	John R. Laidlaw & Marguerite G. Laidlaw	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.690	res	48.00
S-4089	Irving A. Jenkins & Mary C. Jenkins	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.320	res	86.00
S-4090	Frank O. Ray & Laura-Eloise Ray	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	.400	res	35.00
S-4091	Joe T. Orrick & Betty W.S. Orrick	1/ 1/66-12/31/85	Kokee Camp Site, Kauai	.31	res	29.00
S-4092	Samuel K. Thronas	2/16/67- 2/15/2002	Parcels A & B, Wailua Game Reserve, Wailua, North & South Olohana, Waipouli, Kapaa, Kawaihau, Kauai 4-2-91:1 & 4-4-01:1 Hanapepe, Waimea (Kona), Kauai	1,855.00	past	2,030.00
S-4103	Hawaiian Association of Seventh-Day Adventists	2/14/68- 2/13/2033		.91	ele	713.00
S-4128	Boy Scouts of America, Aloha Council	12/ 1/67-11/30/2022	Waimea Canyon Park, Waimea (Kona), Kauai	29.00	ele	120.00
S-4132	F.W. Broadbent, Dora B. Pratt & Alice B. Crabbe	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.02	res	117.00
S-4135	McBryde Sugar Co.	11/29/67-11/28/2032	Waimea (Kona), Kauai	1.710	r/w	26.00
S-4140	W & N Corporation	2/14/68- 2/13/2033	Lihue (Puna); Kauai	22.160	ind	8,688.00
S-4142	Hawaii Conference, United Church of Christ	1/ 1/66-12/31/85	Kokee Camp site, Kauai	.500	res	35.00
S-4143	James D. Thain	1/ 1/66-12/31/80	Kokee Camp site, Kauai	1.030	res	89.00
S-4144	Donn A. Carswell & Gala F. Carswell	1/ 1/66-12/31/85	Kokee Camp site, Kauai	1.000	res	69.00
S-4145	Yasuo Watanabe	1/ 1/66-12/31/75	Kokee Camp site, Kauai	.830	res	64.00
S-4146	Manual S. Andrade, Jr. & Mae Andrade	1/ 1/66-12/31/75	Kokee Camp site, Kauai	.700	res	49.00
S-4147	Ginevra C. Waterhouse	1/ 1/66-12/31/80	Kokee Camp site, Kauai	.500	res	35.00
S-4148	August & Eliz. H. Camara, Manuel & Pearl L. Camara, Ernest & Katherine P. Camara	1/ 1/66-12/31/80	Kokee Camp site, Kauai	.500	res	41.00
S-4149	Manuel G. Silva & Placida Y. Silva	1/ 1/66-12/31/75	Kokee Camp site, Kauai	.560	res	40.00
S-4150	Ernest G. Silva & Marian H. Silva	1/ 1/66-12/31/85	Kokee Camp site, Kauai	.58	res	43.00
S-4151	Sam H. Tao & Dorothy M. Tao	1/ 1/66-12/31/80	Kokee Camp site, Kauai	.590	res	46.00
S-4152	Joseph A. Soares & Margaret Soares	1/ 1/66-12/31/85	Kokee Camp site, Kauai	.540	res	40.00
S-4153	Conrado & Eufemia C. Edayan	1/ 1/66-12/31/80	Kokee Camp site, Kauai	.47	res	34.00
S-4154	Waichi Ikeda & Elsa Y. Ikeda	1/ 1/66-12/31/80	Kokee Camp site, Kauai	.42	res	36.00
S-4155	William M. Moragne, Jr., & Jean B. Moragne	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.970	res	112.00
S-4156	Hajime Takanishi & Kimiyo O. Takanishi	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.970	res	112.00
S-4157	Carlo Panfiglio & Arthur E. Smith	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.130	res	122.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4158	Virginia C. Rapozo & Emily C. Souza	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.060	res	145.00
S-4159	Hong Shin Hee & Lin Kiu Hee	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.990	res	107.00
S-4160	Maria K. Cox	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.950	res	112.00
S-4161	David T. Silver & Adele L. Silver	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.000	res	122.00
S-4162	Hawaii Methodist Union	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	3.050	res	371.00
S-4163	Hideo L. Nakamura & Shigeyo O. Nakamura	1/ 1/66-12/31/80	Puu Ka Pele, Waimea, Kauai	1.06	res	131.00
S-4164	Masako Y. Kitamura & Hisao Munechika	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.050	res	121.00
S-4165	Daniel Manus, Sr. & C. Manus	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.030	res	120.00
S-4166	Manuel Perreira & Alga H. Perreira	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.820	res	94.00
S-4167	Wayne Sakai & Dennis M. Sakai	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.890	res	96.00
S-4168	Marvin A. Brennecke	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.040	res	140.00
S-4169	Arthur G. Kruse & Mary T. Kruse	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.000	res	121.00
S-4170	Shigeo Nitta & Hisako U. Nitta	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.850	res	103.00
S-4171	Joseph J. DeCosta, Jr. & Marjorie DeCosta	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.000	res	128.00
S-4172	Max F. Yamasaki & Lillian H. Yamasaki	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.000	res	121.00
S-4173	William E. Fernandes & Evelyn P.O. Fernandes	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.130	res	122.00
S-4174	William Vierra & Helen S. Vierra	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.120	res	129.00
S-4175	James K. & Shizue Okada, Yoshimasa & Edith Fujimura	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.150	res	140.00
S-4176	George A. Kruse & Martha S. Kruse	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.000	res	128.00
S-4177	Emily K. Zuttermeister	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.01	res	116.00
S-4178	Choshi Nakaya & Mitsuyo Y. Nakaya	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.050	res	128.00
S-4179	Seichi Yokoyama & Vera Yokoyama	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.950	res	115.00
S-4180	Richard H. Nagoshi, Wallace K. Tasaka & Yuriko N. Tasaka	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.870	res	106.00
S-4181	Sutezo Makai & Hatsue I. Makai	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.790	res	96.00
S-4182	Mervin K. Kaohi, Sr. & Aletha Goodwin Kaohi	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.900	res	103.00
S-4183	Henry T. Tanaka & Michie S. Tanaka	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.960	res	104.00
S-4184	Isaac W. Kaiu & Gladys Y Kaiu	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.980	res	106.00
S-4185	Alec Blackstad & Agnes L. Blackstad	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.110	res	127.00
S-4186	Ichiro Inouye & Akiyo M. Inouye	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	1.000	res	128.00
S-4187	Harry I. Hamada & Agnes K. Hamada	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.820	res	89.00
S-4188	Lawrence E. Jordan & Cheryl M. Jordan	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	.990	res	107.00
S-4198	Clinton Steele	8/ 1/68- 7/31/88	Puna (Kawaihau), Kauai	32.500	past	750.00
S-4199	Amfac, Inc.	11/26/68-11/25/78	Waimea (Kona), Kauai	5.883	ind	5,000.00
S-4200	William E. Fernandes	8/ 1/68- 7/31/2023	Kawaihau (Puna), Kauai	2.035	ind	825.00
S-4208	Richard O'Neal & Helen Olga Hansen O'Neal	1/ 1/66-12/31/75	Lot 51, Kokee Camp site, Kauai	.580	res	50.00
S-4213	Elizabeth H. Buinac	1/ 1/66-12/31/75	Lot 79, Kokee Camp site, Kauai	.54	res	41.00
S-4214	Ruth K. Hanner	1/ 1/66-12/31/85	Puu Ka Pele, Waimea, Kauai	.720	res	89.00
S-4215	Lawrence Goodwin & Annie Goodwin	1/ 1/66-12/31/75	Puu Ka Pele, Waimea, Kauai	1.03	res	117.00
S-4221	Daniel H. Foster & Dorothea Foster	10/ 1/68-12/31/80	Puu Ka Pele, Waimea, Kauai	1.060	res	120.00
S-4222	Kekaha Sugar Co., Ltd.	1/ 1/69-12/31/93	Waimea (including Hawaiian Home Land), Waimea (Kona), Kauai	27,833.57	cane	413,800.00
S-4240	University of Hawaii	4/25/69- 4/24/84	Wailua, Kawaihau (Puna), Wailua	9.83	agr	Gratis
S-4243	Kauai Pacific Associates	5/13/69- 5/12/2034	Wailua Resort Site, Wailua, Lihue, Kauai	9.14	bus	170,000.00
S-4244	Island Holidays, Ltd.	5/13/69- 5/12/2034	Parts 1 & 2 Wailua, Kawaihau, (Puna), Kauai	.09	bus	730.00
S-4245	Hawaiian Trust Co. (will of Jean Faye)		Lot 40, Kokee Camp site, Kokee, Kauai	1.11	res	76.00

No.	Lessee	Term of Lease	Land	Acres	Use	Ann. Rent
S-4250	Honolulu Gas Co., Ltd.	9/ 9/69- 9/ 8/2023	Kauai TMK 3-2-03	1.614	ind	3,770.00
S-4254	Jeronimo Santos and Carolina Mayo Santos	8/12/69- 8/11/2024	Lot 5, Kekaha Town Lots, Kauai TMK 1-3-03:40	.302	bus	515.00
S-4255	Fling A. Traylor	8/12/69- 8/11/89	Lot 62, Kapaa Homesteads, 1st Series, Kapaa, Kauai TMK 4-6-06: 28 & 29	9.170	agr	900.00
S-4256	Kekaha Sugar Co., Ltd.	8/12/69- 8/11/89	Waimea (Kona), Kauai TMK-1-5-01	6.250	wtr	6,000.00
S-4257	Hiroshi Azeka	8/12/69- 8/11/2019	Lots 3 & 4, Kapaa Town Lots, Kawaihau (Puna), Kauai TMK 4-5-09:08	.351	bus	733.00
S-4259	U.S.A. (Army)	6/17/69- 6/16/74	Parcels 1 & 2, Kokee State Park	1.343	fed	Gratis
S-4265	Kauai Electric Co., Ltd.	3/15/66- 3/14/2031	Wailua, Lihue, Kauai TMK 3-9-06:9	.158	r/w	288.00
S-4275	Katsuyoshi & Jane Kurokawa	1/27/70- 1/26/2025	Lot 83, Hanapepe Town Lots, Waimea (Kona), Kauai TMK 1-9-05	.323	bus	632.00
S-4276	Iolani Sportswear, Ltd.	1/27/70- 1/26/2035	Lot 22, Hanapepe Business Lots, Waimea (Kona), Kauai TMK 1-8-08	1.233	bus	1,970.00
S-4277	Jerry Louis Ornellas	1/27/70- 1/26/95	Parcel B-1, Kapaa, Kawaihau (Puna), Kauai	51.240	past	1,550.00
S-4278	Mid Pac Development, Ltd.	1/27/70- 1/26/2020	Kekaha, Waimea (Kona), Kauai TMK 1-2-02	7.224	bus	12,400.00
S-5007	University of Hawaii	6/ 1/67- 5/31/87	Lihue-Koloa Forest Reserve, Koloa, Kauai 2-4-09	.014	ele	Gratis

DIVISION OF STATE PARKS

Table 1. STATE PARK AREAS, ACREAGE, AND USAGE, BY ISLAND AND AREA: ENDING JUNE 30, 1970

Island and State Park Area	Year Estab.	Total Acreage	Developed Acreage	FY 1969-70 Recreation Visits (1,000) ¹
All State Park Areas	—	15,583.7	487.7	9,520
HAWAII	—	1,446.1	206.3	2,075
Akaka Falls State Park	1952	65.4	6.0	153
Hapuna Beach State Park	1967	300.0 ⁴	10.0	288
Hikiau Heiau State Monument	1967	2.0 ⁴	2.0	15
Hulihee Palace State Monument	1968	1.3	1.3	20
Kalopa State Recreation Area	1967	100.0 ⁴	15.0	—
Kilauea State Recreation Area	1966	7.0 ⁴	1.0	1
Lava Tree State Monument	1956	17.1	10.0	46
MacKenzie State Park	1955	13.1	6.0	25
Manuka State Wayside	1952	13.2	8.0	91
Mauna Kea State Park	1962	700.0 ⁴	17.0	66
Wailoa River State Recreation Area	1954	146.0 ⁵	115.0	682
Wailuku River State Recreation Area	1967	81.0 ⁴	15.0	687
MAUI	—	160.2	37.0	1,056
Hale Kii-Piihaha State Monument	1962	10.2	1.0	7
Iao Valley State Park	1961	3.7	3.0	464
Kaunahina State Wayside	1952	7.8	2.0	61
Keanae Valley State Wayside	1952	1.5	.5	52
Launiupoko State Wayside	1965	4.0 ⁴	4.0	181
Poli Poli Spring State Recreation Area	1957	2.0 ⁴	1.0	1
Puaa Kaa State Wayside	1954	5.0 ⁴	1.5	57
Wahikuli State Wayside	1969	6.0 ⁴	6.0	197
Waianapanapa State Park	1966	120.0 ⁴	18.0	36
MOLOKAI	—	233.7	10.0	27
Palaa State Park	1955	233.7	10.0	27
OAHU	—	5,928.7	77.4	3,119
Diamond Head State Monument ²	1962	145.3	9.0	4
Iolani Palace State Monument	1967	10.6	8.0	329
Keaiwa Heiau State Recreation Area	1955	384.0 ⁵	15.0	198
Puu O Mahuka State Monument	1962	4.0	3.0	8
Puu Ualakaa State Wayside	1957	10.0 ⁴	8.0	199
Royal Mausoleum State Monument	1968	3.3	3.0	29
State Capitol	1969	10.0 ⁶	5.0	—
Ulu Po Heiau State Monument	1954	1.4	1.4	4
Waahila Ridge State Recreation Area	1967	40.0 ⁴	15.0	20
Washington Place State Monument	1966	3.1	3.0	—
Nuuanu Pali State Wayside	1964	5.0 ⁴	1.0	2,000 ⁷
Kahana Valley State Park	1970	5,260.0	—	—
Waimanalo Bay State Recreation Area	1970	20.0 ⁶	6.0	67
Magic Island State Recreation Area	1970	32.0 ⁶	—	261
KAUAI	—	7,815.0	157.0	3,268
Kokee State Park	1952	4,640.0	55.0	521
Na Pali Coast State Park	1962	55.0 ⁴	4.0	6
Polihele State Park	1967	140.0 ⁴	20.0	106
Wailua River State Park ³	1954	1,113.6	68.0	2,261
Waimea Canyon State Park	1952	1,866.2	10.0	374

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); Kaunualii (3.9 acres); Fern Grotto (14.6 acres); Boat Basin (11.4 acres); Poliahu (162.2 acres); Lydgate (37.2 acres).

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

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

⁶ Acquired maintenance responsibility; estimated acreage.

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

Table 2. STATE PARK REVENUES, BY SOURCE, 1970.

Income Source	Amount
Total	\$113,551.65
Rentals, recreation residence lots, Kokee and Waimea Canyon State Parks, Kauai	14,419.00
Rentals, vacation cabins and lodgings, State operated, all parks	39,903.59
Lease of concessions, Kokee and Wailua River State Parks, Kauai	49,234.24
Mooring fees, Wailua River State Park Marina, Kauai	2,053.55
Sale of water, all parks	6,393.41
Sale of electricity, Wailua River Recreation Area Pavilions	1,166.56
Commissions and sales, miscellaneous, all islands	381.30

Table 3. STATE PARK AREAS, TOTAL ACREAGE, RECREATION VISITS, EXPENDITURE AND REVENUES BY YEARS—1952-1970

Year ¹	Number of Areas	Acreage ²	Estimated Recreation Visits	Operating Cost Per Visit	Expenditures in Dollars			Program Revenues
					Total	Operating	C.I.P. ³	
1952	5	5,422	NA	NA	NA	NA	NA	NA
1953	7	5,500	76,000	16.4¢	12,458	12,458	—	NA
1954	9	5,739	79,000	24.6¢	19,469	19,469	—	NA
1955	14	5,829	148,000	8.5¢	20,109	12,575	7,534	NA
1956	15	5,846	154,000	8.5¢	28,914	13,102	15,812	NA
1957	16	6,138	164,000	8.2¢	25,473	13,432	12,041	NA
1958	18	6,166	239,000	5.9¢	16,134	14,134	2,000	NA
1959	18	6,166	243,000	9.0¢	24,695	21,712	2,983	NA
1960	18	6,166	267,000	14.1¢	49,445	37,549	11,896	NA
1961	18	6,166	297,000	27.1¢	542,905	80,558	462,347	9,337
1962	21	6,410	489,000	24.5¢	482,150	119,676	362,474	4,557
1963	23	6,410	666,000	26.2¢	387,918	174,764	213,154	11,684
1964	22	6,412	1,196,000	16.9¢	492,666	202,184	289,482	20,433
1965	22	7,514	1,893,000	10.3¢	860,307	195,506	664,801	21,207
1966	27	7,514	2,710,000	9.5¢	2,256,056	256,824	1,999,232	24,428
1967	34	7,536	3,204,000	10.0¢	1,904,582	320,187	1,584,395	34,650
1968	36	7,541	4,767,000	7.8¢	2,365,088	373,339	1,991,749	50,905
1969	38	8,231	6,142,000	7.8¢	2,820,857	479,371	2,341,486	83,038
1970	41	15,084	9,520,000	6.8¢	3,283,580	647,757	2,635,823	113,552

NA—Not available.

¹ Year ended June 30.

² Parks for which boundaries are not yet established are not included prior to June 30, 1969

³ Capital improvement program including land acquisition

Table 4. STATE PARK EXPENDITURE AND REVENUES BY ISLANDS: YEAR ENDING JUNE 30, 1970

Island	Operating Cost Per Visit	Expenditures in Dollars			Program Revenues ¹
		Total	Operating	C.I.P.	
Hawaii	9.2¢	556,331	190,953	365,378	19,998
Maui	6.3¢	655,451	66,759	588,692	21,072
Molokai	49.6¢	3,359	992	2,367	—
Oahu ²	7.5¢	1,480,042	233,781	1,246,261	—
Kauai	4.8¢	588,397	155,272	433,125	72,100

¹ Not included; Commissions and Sales, miscellaneous, all islands.

² Includes Honolulu administration office.

STATE PARK PUBLICATIONS

The following is a list of publications for the first part of 1970:

- 70-1 THE ARCHAEOLOGY OF EWA
The Ahupua'a of Halawa
Halawa Interchange Survey
by Deborah Cluff
- 70-2 THE ARCHAEOLOGY OF HANA
The Ahupua'a of Honokalani and Waikiu
Preliminary Survey of Waianapanapa State Park
by Richard J. Pearson
and
Notes on "A formal Classification of Hawaiian
Archaeological Features" by Robert J. Hommon

DIVISION OF WATER AND LAND DEVELOPMENT

Table 1. 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
Aiea Stream, Oahu*	Sec. 205 of the 1948 Flood Control Act as amended
Waialae Nui and Kapakahi Streams, Oahu*	"
Wailupe Stream, Oahu*	"
Waimalu Stream, Oahu*	"
Palolo-Manoa Stream, Oahu*	P.L. 81-516
Kaneohe-Kailua area, Oahu*	P.L. 89-298
Iao Stream, Maui*	P.L. 85-516
Kahoma Stream, Hawaii*	P.L. 86-645
Waipio Stream, Hawaii*	P.L. 87-874
Kalihi Stream, Oahu*	P.L. 90-483
Kahaluu Watershed, Oahu**	P.L. 83-566 as amended
Honolua Watershed, Maui**	"

*Corps of Engineers

**Soil Conservation Service

B. Construction of Flood Control Projects

The following projects qualified for federal assistance and construction of these projects was completed:

Project	Authority
Puukapu Watershed, Hawaii**	P.L. 83-566 as amended
Kuliouou Stream, Oahu*	Sec. 205 of the 1948 Flood Control Act as amended

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

Project	Authority
Kona Watershed, Hawaii**	P.L. 83-566 as amended
Waianae Watershed, Oahu**	"

C. Flood Plain Information Study and Flood Mapping

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

Kaaawa, Oahu
Anahola, Kauai
Kihei, Maui

The following area is being studied:
Waialua, Oahu

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

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

3. 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 for the following areas:

Kahoma Stream, Lahaina, Maui

The maps for the following areas are being prepared:

Kealahala Stream, Oahu
Wailua River, Kauai
Makaha, Oahu
Kalihi-Moanalua, Oahu
Kalauao, Oahu
Kahuku, Oahu

4. Under the authority of the National Flood Insurance Act of 1968, as amended, flood insurance at reasonable premium rates can be purchased through cooperating private insurance firms in the following areas:

Hilo, Hawaii
Island of Oahu

The following area has submitted an application to the Federal Insurance Administrator for participation in the national flood insurance program:

Island of Maui

Table 2. LALAMILO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
1969					
July	11,868,450	190	\$ 427.50	815.81	\$ 1,243.31
August	10,823,690	196	441.00	744.04	1,185.04
September	13,764,390	196	441.00	928.92	1,369.92
October	14,791,850	196	441.00	993.88	1,434.88
November	12,297,150	236	787.50	839.11	1,626.61
December	5,553,510	196	441.00	398.25	839.25
1970					
January	1,574,500	196	441.00	118.20	559.20
February	10,040,870	196	441.00	696.43	1,137.43
March	11,302,920	196	441.00	779.82	1,220.82
April	7,583,220	204	459.00	534.77	993.77
May	9,535,600	204	459.00	663.94	1,122.94
June	11,708,490	204	459.00	803.69	1,262.69
Total	120,844,640		\$5,679.00	\$8,316.86	\$13,995.86

Table 3. MOLOKAI IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
1969					
July	38,062,000	6,824	\$ 6,835.05	\$ 3,736.96	\$ 10,572.01
August	63,252,000	6,826	6,838.55	5,299.04	12,137.59
September	63,178,000	6,977	6,919.95	5,373.04	12,292.99
October	55,231,000	6,978	7,004.65	4,359.12	11,363.77
November	26,964,000	6,985	7,018.02	2,999.84	10,017.86
December	35,687,000	6,985	7,011.25	3,121.82	10,133.07
1970					
January	11,416,000	6,986	7,012.90	880.16	7,893.06
February	3,748,000	6,986	7,012.35	247.52	7,259.87
March	13,605,000	6,988	7,016.75	1,565.36	8,582.11
April	46,721,000	6,833	6,844.05	5,249.04	12,093.09
May	59,304,000	6,837	6,849.00	4,736.88	11,585.88
June	78,935,000	6,840	6,851.75	6,350.32	13,202.07
Total	496,103,000		\$83,214.27	\$43,919.10	\$127,133.37

Table 4. WAIMANALO IRRIGATION SYSTEM—MONTHLY BILLINGS

	Water Sold (Gallons)	Acreage Served	Service Charges	Water Charges	Total Charges
1969					
July	16,101,974	921.208	\$ 2,303.15	\$ 1,288.20	\$ 3,591.35
August	19,556,624	921.208	2,303.15	1,564.55	3,867.70
September	15,070,038	921.208	2,303.15	1,205.61	3,508.76
October	14,027,233	921.208	2,303.15	1,122.18	3,425.33
November	5,675,154	921.208	2,303.15	454.03	2,757.18
December	2,881,659	921.208	2,303.15	230.55	2,533.70
1970					
January	145,862	921.208	2,303.15	11.67	2,314.82
February	3,908,407	921.208	2,303.15	312.66	2,615.81
March	12,030,292	921.208	2,303.15	962.42	3,265.57
April	9,044,408	921.208	2,303.15	723.56	3,026.71
May	11,824,671	921.208	2,303.15	945.97	3,249.12
June	18,048,269	921.208	2,303.15	1,443.87	3,747.02
Total	128,314,591		\$27,637.80	\$10,265.27	\$37,903.07

DIVISION OF WATER AND LAND DEVELOPMENT

Table 5. CONSTRUCTION PROJECTS AWARDED, UNDER CONSTRUCTION OR COMPLETED
(For Fiscal Year 1969-70)

Job No.	Description	Construction Cost	Starting Date	Completion Date	Contractor
31-HL-19	Realignment of Banyan Drive, Hilo, Hi.	\$ 906,264.00	3-18-68	7-31-69	Jas. W. Glover, Ltd.
19-L-4R	Pump & Pipelines, Hanapepe Water System Hanapepe, Kauai, Hawaii	244,899.63	1-27-69	5-11-70	Mark Construction, Inc.
1-OL-19	Shafter Flats Industrial Development, Unit III, Honolulu, Oahu, Hawaii	97,844.50	5-19-69	11-14-69	Pacific Contractors, Inc.
50-KL-9	Pump & Pipelines, Waimea Water System, Waimea, Kauai, Hawaii (Schedule II)	51,400.00 ¹	4- 1-70	11-26-70*	Mark Construction, Inc.
50-KL-9	Pump & Pipelines, Waimea Water System, Waimea, Kauai, Hawaii (Schedule I)	39,777.60 ¹	4- 1-70	11-26-70*	E. F. Nilson, Inc.
41-OM-21	Waimanalo Core Development, Sewage Pump Station, Force Main and Interceptor Waimanalo, Oahu, Hawaii (Schedule I)	391,219.00 ¹	4-13-70	2- 6-71*	Haw'n. Dredging & Const. Co.
41-OM-21**	Waimanalo Core Development, Sewage Pump Station, Force Main and Interceptor, Waimanalo, Oahu, Hawaii (Schedule II)	424,617.60 ¹			Okada Trucking Co., Ltd.
1-OL-22**	Food Distribution Center, 1st Increment For Armstrong, Honolulu, Oahu, Hawaii	744,720.75 ¹			Okada Trucking Co., Ltd.
8-HW-24	Tank, Pumps & Pipeline, Moeauoa to Hono- kohau, Kona Water Project, Kona, Hi.	135,953.41	9-11-67	11-24-69	J. M. Tanaka Const., Inc.
48-HW-6	50 M.G. Waikoloa Reservoir, South Kohala Water Project, South Kohala, Hawaii	686,749.16	6-17-68	5-12-70*	Yamada & Sons, Inc.

Job No.	Description	Construction Cost	Starting Date	Completion Date	Contractor
3-9W-16	Kualapuu Reservoir, Molokai Irrigation Project, Molokai, Hawaii	1,287,158.61	8-26-68	11- 3-69	J. A. Thompson & Son, Inc.
3-9W-22	Lining Kualapuu Reservoir, Molokai Irrigation Project, Molokai, Hawaii	1,118,526.49	10-28-68	11-24-69	Wisdom Rubber Indus., Inc.
15-HW-9	12" Transmission Main, Kawaihae Water System, Unit III, Kawaihae, Hawaii	108,198.50	1-13-69	8-25-69	Yamada & Sons, Inc.
8-HW-32	8" Pipeline Along Kuakini Highway, Kona Water Project, N. Kona, Hawaii	235,625.50	3- 3-69	11-24-69	Yamada & Sons, Inc.
13-KW-9	Pipeline for Lawai Water System, Lawai, Kauai, Hawaii	7,599.46	4-12-69	11-28-69	John P. Rapozo
8-HW-33	16-Inch Transmission Main, Kailua to Honokahau, Honokahau Water Project, South Kona, Hawaii	399,131.50	5-21-69	5-22-70	J. M. Tanaka Const., Inc.
8-HW-29	Pipeline Along Mamalahoa Highway, Honaunau to Hookena, Kona Water Project, South Kona, Hawaii	228,946.00 ¹	6- 9-69	3- 5-70*	Yamada & Sons, Inc.
51-KW-4	8-Inch Pipeline, Haena Water System, Haena, Kauai, Hawaii	71,992.50	6- 9-69	12- 9-69	E. F. Nilson, Inc.
8-HW-31	Drilling & Pump, Kahaluu Well "C" Kona Water Project, Kona, Hawaii	203,873.00	6-27-69	4-10-70*	Layne International, Inc.
3-9W-24	Furnishing of Front End Loader, Molokai Irrigation System, Kaunakakai, Molokai	7,075.00	8- 1-69	12- 1-69	Edw. R. Bacon of Hawaii, Ltd.
8-HW-34	12-Inch Transmission Main, Honokahau to Keahole, Honokahau Water Proj., Kona, Hi.	530,981.95	8-18-69	5-14-70	Yamada & Sons, Inc.
3-9W-23	Kualapuu Reservoir Fencing, Molokai Irrigation Project, Molokai, Hawaii	70,415.00	9- 2-69	2-19-70	Richard K.W. Tom, Inc.
35-MW-7	Exploratory Drilling—Phase I, West Maui Water Project, West Maui, Hawaii	41,906.40 ¹	12- 1-69	9-26-70*	Continental Drilling Co.
48-HW-12	Drilling Well & Installing Pump, Kawaihae Water System, South Kohala Water Project Kawaihae, Hawaii	161,230.00 ¹	12-19-69	4-17-70*	Layne International, Inc.
12-KW-9	Drilling Well 9-1(B) and Installing Pump Wailua-Kapaa Water System, Wailua, Kauai	46,195.00 ¹	3-23-70	7-20-70*	Roscoe Moss Company
3-9W-25	Mokulele Pipeline, Molokai Irrigation Project, Molokai, Hawaii	54,893.20 ¹	4- 6-70	10- 2-70*	Molokai Rock & Equip., Inc.
48-HW-9**	Waikoloa Reservoir Fencing, So. Kohala Water Project, So. Kohala, Hawaii	15,272.60 ¹			J. F. Shea Co., Inc.
2-HW-12X	Modification of Manholes, Lalamilo Irrigation Project, Molokai, Hawaii	7,750.00	(Informal Bids)		Yamada & Sons, Inc.
8-HW-37**	Well, Pump and Controls, Kona Water Project, Kahaluu, North Kona, Hawaii (Schedule I, II, and IV)	234,330.00 ¹			Layne-Craddick Wayter Sys., Inc.
8-HW-37**	Well, Pump and Controls, Kona Water Project, Kahaluu, North Kona, Hawaii (Schedule III)	8,903.75 ¹			Corps Construction, Ltd.
12-KW-10**	12-Inch Pipeline Along Kuhio Highway, Wailua-Kapaa Water System, Wailua, Kauai, Hawaii	45,712.00 ¹			E. F. Nilson, Inc.
17-MW-21**	Drilling Exploratory Well, Kihei, Maui, Hawaii	64,970.00 ¹			Roscoe-Moss Co.
22-HW-15**	Drilling Exploratory Well, Naalehu, Kau, Hawaii	72,830.00 ¹			Roscoe-Moss Co.
51-KW-6**	Drilling 12-Inch Well, Kekaha Water System, Kekaha, Kauai, Hawaii	28,470.00 ¹			Roscoe-Moss Co.
3-9W-19	Molokai Water System, Office Bldg., Molokai Irrigation Project, Molokai, Hi.				
39-HP-9	Additional Buildings & Tank—Unit III, Mauna Kea State Park, Pohakuloa, Hi.	384,334.95	3- 3-69	8- 9-70*	Stewart-Berg (JV)
23-HP-5R	Park Development—Unit I, Kalopa Forest Recreation Area, Hamakua, Hawaii	212,994.27	5- 5-69	3-25-70	Yokoyama-Ramos (JV)
57-HP-9	Waiolama Footbridge for Wailoa River State Park, Hilo, Hawaii	96,720.00	6- 2-69	12- 3-60	Glenn Construction Corp.
36-MP-6	Additional Buildings—Unit II, Waiianapanapa State Park, Hana, Maui, Hi.	122,948.23	11-20-69	9-15-70*	Service Contracting Co.
30-KP-24	Asphalt Concrete Paving at Opaekaa Lookout, Wailua River State Park, Wailua, Kauai, Hawaii	4,561.20	7-16-69	8-11-69	Haw'n Bitumuls & Paving Co.
5-OP-2	Park Development—Unit I, Waahila Ridge State Recreation Area, Hon., Hi.	4,540.00 ¹	9-15-69	9- 8-70*	Richard K. W. Tom, Inc.
24-KP-13	Construction of Puu O Kila Road, Kokee State Park Complex, Waimea, Kauai, Hi.	20,391.32	9-15-69	9- 8-70*	Ralph S. Inouye Co., Ltd.
23-HP-7	Park Development—Unit I, Hapuna Beach State Park, Lalamilo, Hawaii	76,971.00	8-27-69	2-18-70	E. F. Nilson, Inc.
36-MP-8	Additional Buildings—Unit III, Waiianapanapa State Park, Hana, Maui, Hi.	148,948.13	12-15-69	9-10-70*	Matsuo Yokoyama, Contractor
30-KP-25	Sewerage System, Pumping Station and Force Main, Wailua River State Park, Wailua, Kauai, Hawaii	101,788.30	3-30-70	11- 4-70*	Hicks Construction Co., Inc.
		62,752.50 ¹	3-30-70	8-26-70*	E. F. Nilson, Inc.

Job No.	Description	Construction Cost	Starting Date	Completion Date	Contractor
23-HP-6	Well, Pump and Controls, Hapuna Beach State Park, Lalamilo, Hawaii	79,085.00 ¹	3-30-70	7-27-70*	Layne International, Inc.
45-OP-10	Grading, Magic Island Park, Honolulu, Oahu, Hawaii	36,449.30	3-31-70	6-10-70	Urban Construction, Inc.
24-KP-14X	Furnishing Asbestos-Cement pipe, Kokee State Park, Waimea, Kauai, Hawaii	6,117.09	5- 1-70	(Informal Bid)	Amfac, Inc.
36-MP-11	Picnic Shelter & Tables, Wahikuli State Wayside, Lahaina, Maui, Hawaii	21,590.00	6-29-70	9-26-70*	Masao Aotaki, General Contr.
23-HP-9**	Rainbow Falls Improvements, Wailuku River State Recreation Area, Hilo, Hi.	58,392.50 ¹			Jas. W. Glover, Ltd.
45-OP-9	Landscaping and Park Facilities, Magic Island Park, Honolulu, Oahu, Hawaii		7-21-70	4-16-71*	Pacific Contractors, Inc.
36-9P-7	Park Development—Unit I, Palaaau State Park, Molokai, Hawaii				
9-OF-4	Waimanalo Drainage Improvements, Waimanalo, Oahu, Hawaii	132,621.75	10 7-68	1-12-70	W. T. Chang Contractors, Inc.
9-OF-5	Drainage Improvements at Prospect and Pensacola Streets, Honolulu, Oahu, Hawaii	53,027.50 ¹	3-31-70	8-27-70*	W. T. Chang Contractors, Inc.
25-HM-3	Materials for Prefabricated Building, Forestry Headquarters, Hilo, Hawaii	21,615.63	4-21-69	7- 7-69	Harry H. Otaki Contractor

* Contract completion date.

** Contract award only.

¹ Contract bid amount.