

***HAWAII WATER PLAN***

# **STATE WATER PROJECTS PLAN**

***Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii***

**Review Draft  
February 1992**

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# **STATE WATER PROJECTS PLAN**

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*Commission on Water Resources Management  
Department of Land and Natural Resources  
State of Hawaii*

December 1991

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## **SECTION 1 - INTRODUCTION**

### **1.1 BACKGROUND**

#### **1.1.1 Legislative History**

The State Constitution, Article XI Section 7 mandates that the State of Hawaii is responsible to project, control, and regulate the use of Hawaii's water resources for the benefit of its people. Pursuant to this mandate, Act 45, the State Water Code, was signed into law on July 1, 1987 by the Fourteenth Legislature. The Act is now codified as Chapter 174C, Hawaii Revised Statutes.

#### **1.1.2 State Water Code**

The State Water Code calls for the establishment of a six member Commission on Water Resource Management to have exclusive jurisdiction and final authority relating to the implementation and administration of the Code. To guide the Commission in executing its general powers, duties, and responsibilities, the Code requires the formulation of a Hawaii Water Plan.

#### **1.1.3 Hawaii Water Plan**

The Hawaii Water Plan shall serve as a continuing long-range guide for water resource management. The Hawaii Water Plan shall consist of four parts (or plans):

- (1) Water resource protection
- (2) County water use and development
- (3) State water projects
- (4) Water quality

The State Water Code requires that the above elements be prepared and integrated into one master plan which shall be known, as previously stated, as the Hawaii Water Plan. By statute, Section 174C-32, HRS, the Hawaii Water Plan shall be completed and adopted by the Commission prior to July 1990.

### Water Resources Protection Plan

The Commission on Water Resources Management shall prepare a Water Resources Protection Plan which shall include the following:

- (1) The designation of hydrologic units statewide and their hydrologic characteristics.
- (2) A master inventory describing the nature and location of water resources in the state by hydrologic units, current water uses statewide, and water quality data as provided by the Department of Health's Water Quality Plan.
- (3) Requirements for beneficial instream uses and environmental protection, desirable uses worthy of preservation by permit, and undesirable uses for which permits may be denied.
- (4) Programs to conserve, augment, and protect water resources throughout the State.

The study shall ultimately include the means and methods of conserving and augmenting the State's water resources.

### County Water Use and Development Plan

Each of the four counties shall prepare and adopt by ordinance a Water Use and Development Plan (WUDP). The WUDP would generally set forth the allocation of water to land use in each respective county.

In general, the WUDP of each county shall cover four basic subject areas:

1. Description of county resources and economy;
2. Inventory of current water usage and developments;
3. Future plans for land use and associated water needs;
4. Program of water developments to meet future needs.

Water Use and Development Plans shall be prepared in a manner consistent with the following conditions:

1. Each WUDP will be consistent with the Water Resource Protection Plan and the Water Quality Plan;
2. Each WUDP will be consistent with the respective county land use plans and policies, including the general plan, regional development plans, and



- zoning ordinance as determined by each respective county;
3. Each county WUDP will also be consistent with the State land use classification and policies;
  4. The cost of updating and maintaining and WUDPs will be borne by the counties; State water capital improvement funds appropriated to the counties will be deemed to satisfy Article VIII, Section 5 of the State Constitution.

### State Water Projects Plan

The State Water Projects Plan, as specified in the State Water Code, shall include:

- (1) "The status of state water and land developments and their existing water use requirements for domestic, industry, agriculture, aquaculture, hydropower, water reclamation, and recharge.
- (2) Future land uses and related water needs.
- (3) Statewide plans for water developments including recommended and alternative plans, costs, adequacy of plans, and relationship to the water resource protection plan and the water quality plan."

The State Water Projects Plan shall review current and future state water programs and projects to insure orderly authorization and development of the state's water resources. The Department of Land and Natural Resources has been designated to develop the State Water Projects Plan.

### Water Quality Plan

The Department of Health shall prepare a State Water Quality Plan for all existing and potential sources of drinking water. The Water Quality Plan shall set forth the water quality criteria to be used in designation of water management areas.

## **1.2 OBJECTIVE OF THE STATE WATER PROJECTS PLAN**

The primary objective of the State Water Projects Plan is to provide a framework for the planning and implementation of State water development program. The State Water Projects Plan should be consistent with the Water Resources Protection Plan and the Water Quality Plan, and be coordinated with the Counties' Water Use and Development Plans.

### **1.3 ELEMENTS OF THE STUDY**

#### **1.3.1 Inventory of Existing Systems**

The initial phase of the study involves the compilation of available information of existing water systems owned and/or operated by the State of Hawaii. An inventory of existing State water systems was conducted to assess the extent of the State's current water-related operations.

#### **1.3.2 Inventory of Proposed Projects**

An inventory of proposed State projects was taken to project the future water requirements associated with State sponsored programs. Projects with potentially significant impact on water resources were identified and included in the inventory.

#### **1.3.3 Assessment of Future Needs**

Upon completion of the inventory phase of the study, an assessment of the future water requirements of the selected projects was performed. Estimated water demands were determined using the best available information. It should be noted that this is an initial effort to quantify the future water requirements and the values derived herein should be reevaluated as the specific projects become more well defined.

#### **1.3.4 State Water Development Plan**

The projected water requirements for State projects were determined for the various hydrologic units to provide insight as to where future water demands are most significant. The State project projections combined with the Counties' water use projections should give an indication of potential critical areas requiring more detailed evaluation.

## **SECTION 2 - EXISTING STATE WATER SYSTEMS**

### **2.1 GENERAL**

The vast majority of existing State facilities including schools, office buildings, airports, harbors, housing projects and institutions are served by water systems owned and operated by the respective counties. The County water agencies are specifically organized to manage, maintain and operate water systems and are usually more capable of efficiently providing water service. However, in areas where the Counties do not have distribution systems, other purveyors, including State, Federal or private agencies, must provide water service to their respective facilities.

An inventory of existing State owned and operated water systems was conducted to assess the extent of the State's current water-related operations. Information on existing water uses and sources registered by the State were also compiled and are presented herein.

### **2.2 REGISTERED STATE WATER SOURCES**

#### **2.2.1 Water Use Registration Program**

In accordance with the Administrative Rules of the State Water Code, Chapter 174C, Hawaii Revised Statutes, all users of water, in the State of Hawaii either from wells or stream diversion works, are required to report information regarding their water use. Usage-related information include the location of the water source, the manner, purposes, and time in which the water source is used and operated, the rate and volume of water withdrawn or diverted, and the method used to measure and control the water which is taken.

The registration of all existing users in the State was completed in May 1989 by the Commission of Water Resource Management through the Department of Land and Natural Resources, Division of Water Resource Management. From the compiled lists, all diversions and wells registered by State agencies were extracted and summarized as part of this study.

#### **2.2.1 Stream Diversions**

A "Stream Diversion" is defined as "the act of diverting, pumping or otherwise removing water from a stream into a channel, ditch, pipeline, or other conduit." Based on the list

of registered diversions, the State of Hawaii currently owns and/or operates 48 stream diversions. The locations of the various stream diversions are shown in Figures 2.1 thru 2.5. A listing of the State owned/operated diversions is included in Appendix A. The water collected from existing State diversion works is used primarily for agricultural operations. Other uses include potable water supply, generally for remote areas, e.g. parks and recreation areas. Since diversion works involve surface water sources, the collected water generally require treatment before it is considered safe for human consumption.

### 2.2.3 Wells

A "Well" is defined as "any excavation or opening in the ground, or an artificial enlargement of a natural opening drilled, tunneled, dug, or otherwise constructed for the location, exploration, development, injection, or recharge of ground water and by which ground water is drawn or is capable of being withdrawn or made to flow." The State currently owns and/or operates 78 existing or proposed wells. The locations of the registered State wells are shown in Figures 2.6 thru 2.10. A listing of the State owned/operated wells (both existing and proposed) is included in Appendix B.

Water from the State wells are used for various applications. Principal uses include potable water supply and irrigation. Miscellaneous uses include cooling water, landscaping, aquaculture, and wetland maintenance.

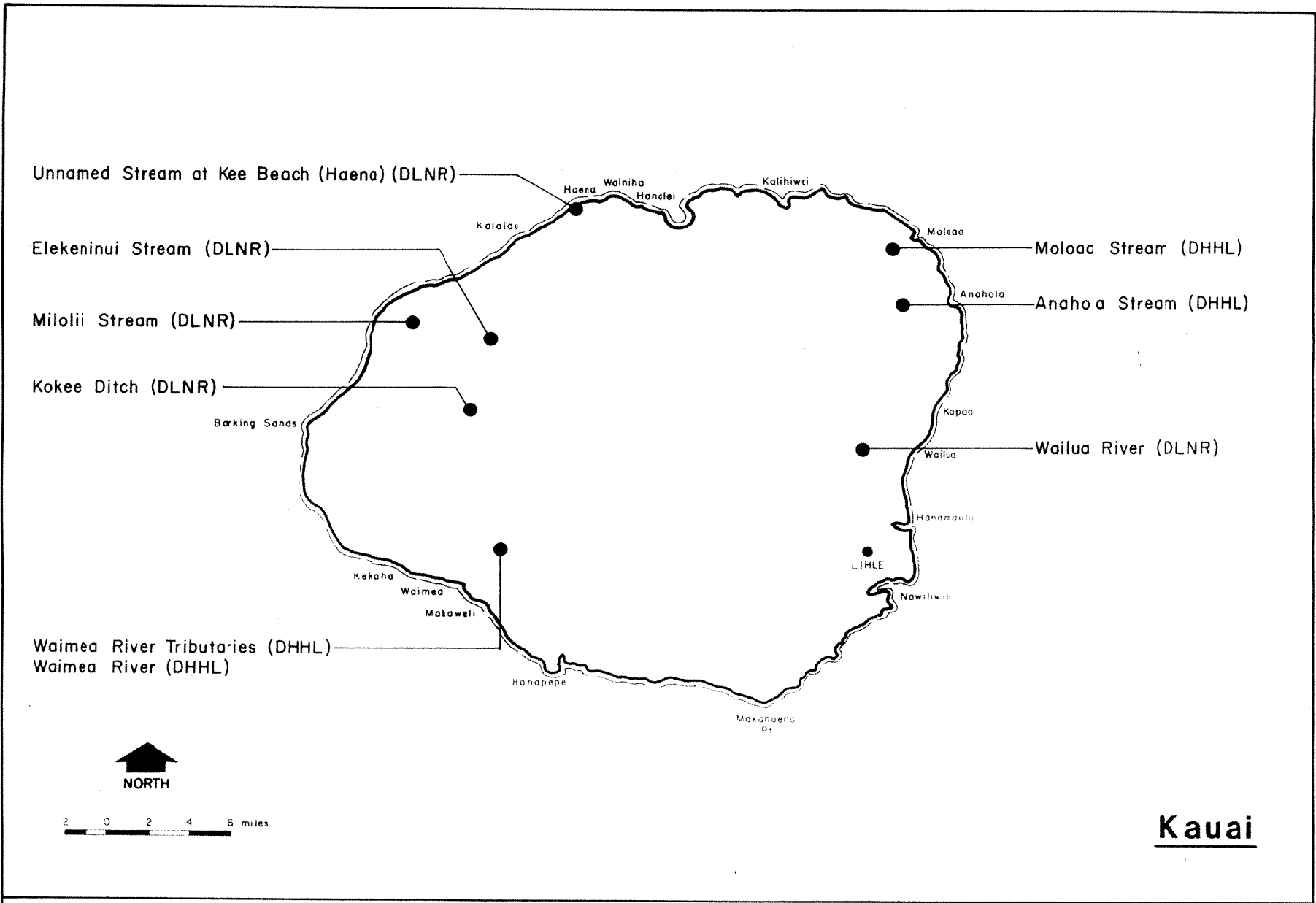
## 2.3 DESCRIPTION OF STATE OPERATED WATER SYSTEMS

Based on information compiled in this study, the State currently owns and operates 19 known water systems. (See Figure 2.11) Of these, sixteen (16) are public water systems, used for potable water. The remaining three (3) systems primarily support agricultural-related operations, either irrigation or livestock water supply.

### 2.3.1 Agricultural-related Water Systems

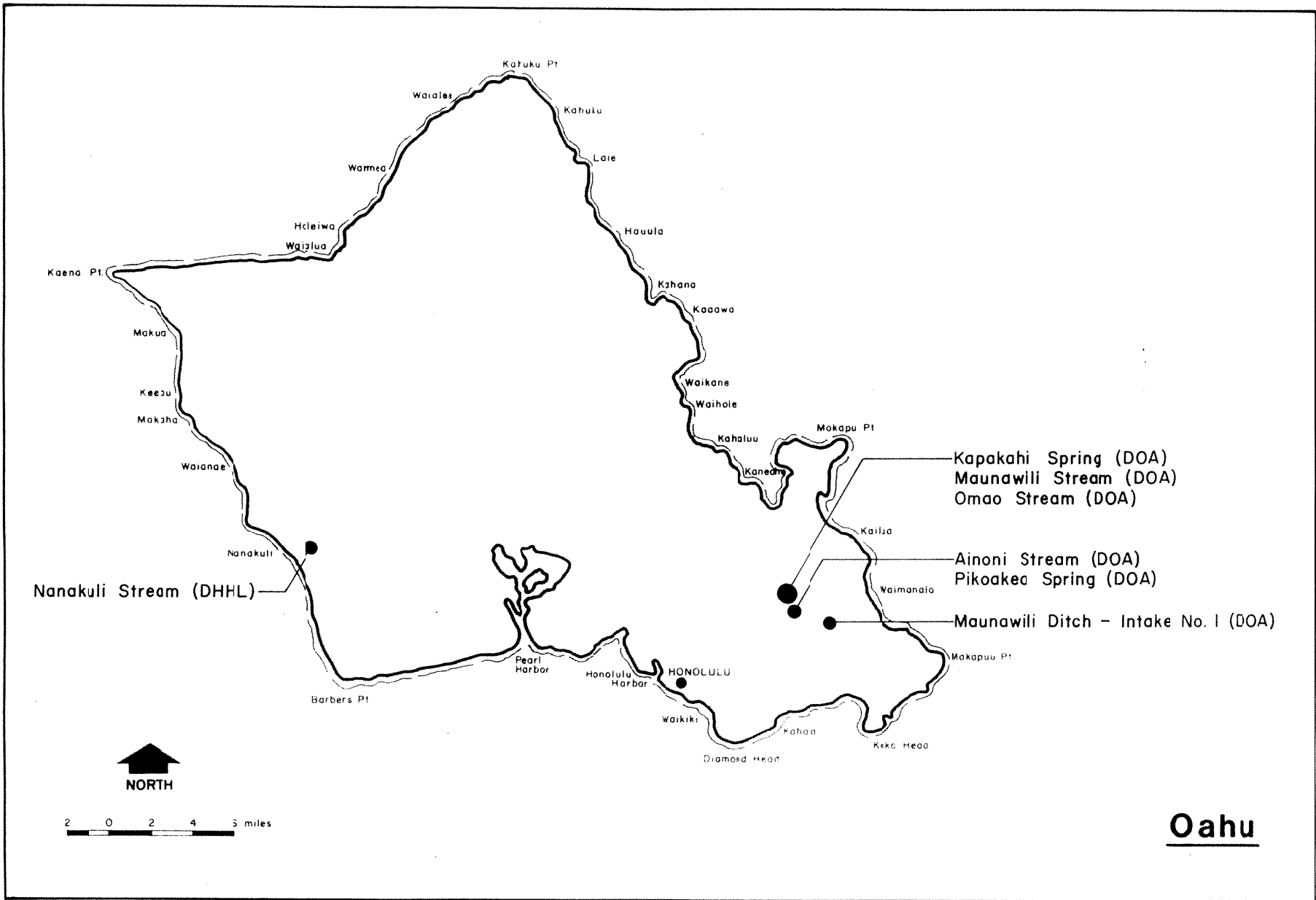
#### 2.3.1.1 Major Irrigation Systems

The State of Hawaii presently operates three major irrigation systems. The three systems are (1) the Molokai Irrigation System on the island of Molokai, (2) the Waimanalo Irrigation System on the island of Oahu, and (3) the Waimea Irrigation System on the island of Hawaii. These systems are currently managed, maintained and operated by the Department of Agriculture. (The Department of Land & Natural Resources, Division of Water and Land Development was formerly responsible for the systems.) The major irrigation systems, including the annual water sales and average acreage served, are listed in Table 2.1.



EXISTING REGISTERED STATE DIVERSIONS - ISLAND OF KAUAI

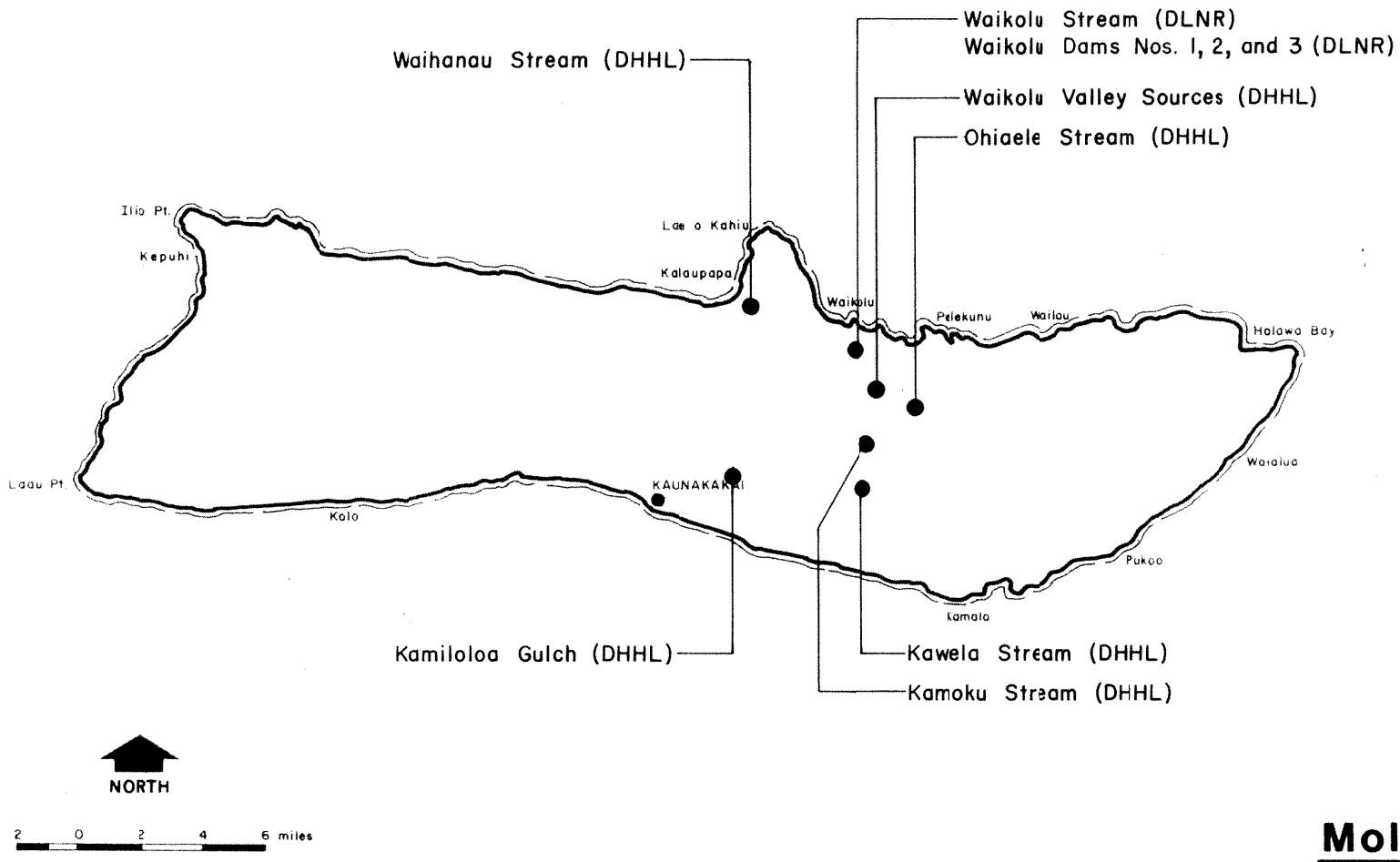
FIG. 2.1



**Oahu**

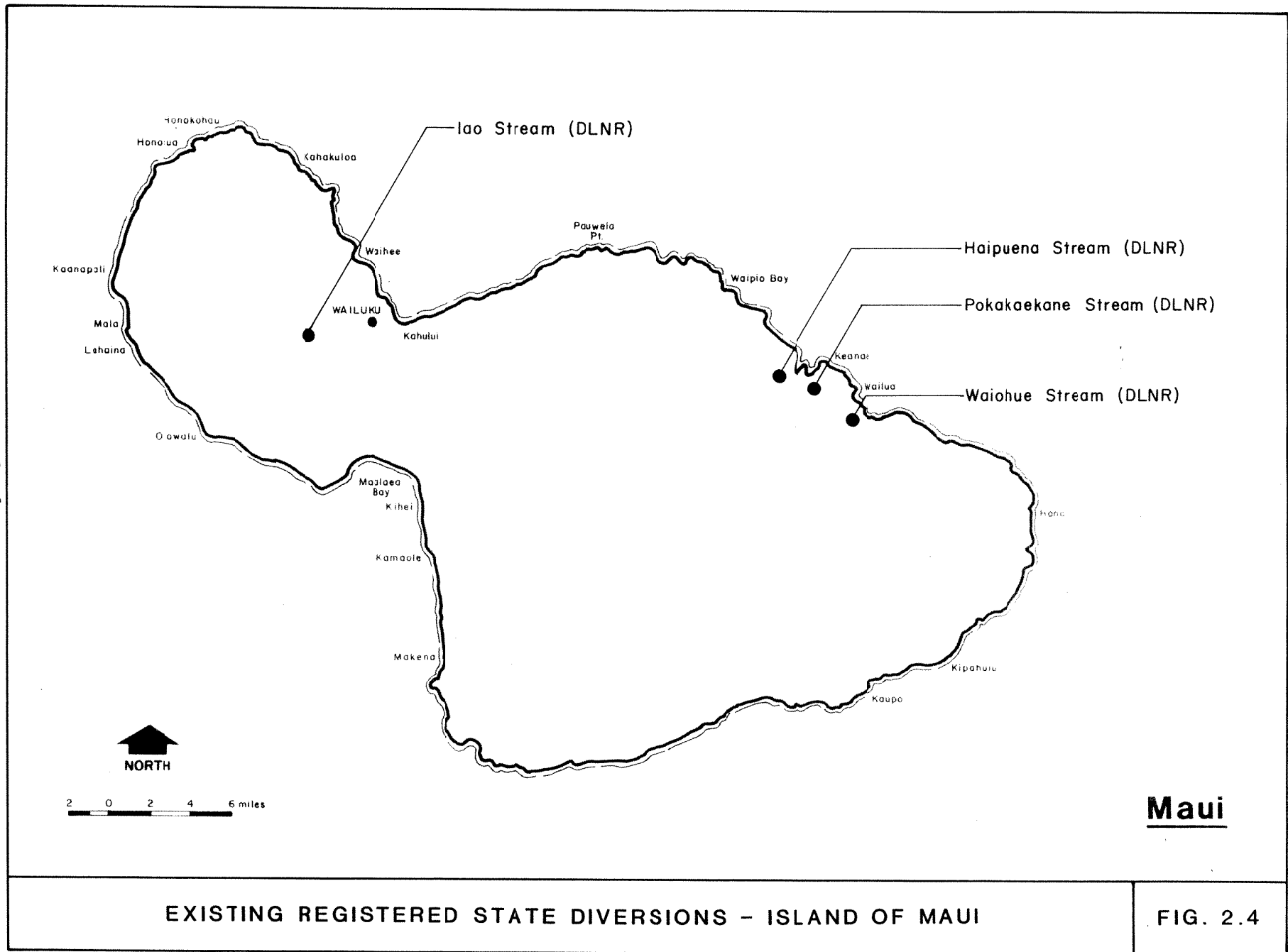
EXISTING REGISTERED STATE DIVERSIONS - ISLAND OF OAHU

FIG. 2.2



EXISTING REGISTERED STATE DIVERSIONS - ISLAND OF MOLOKAI

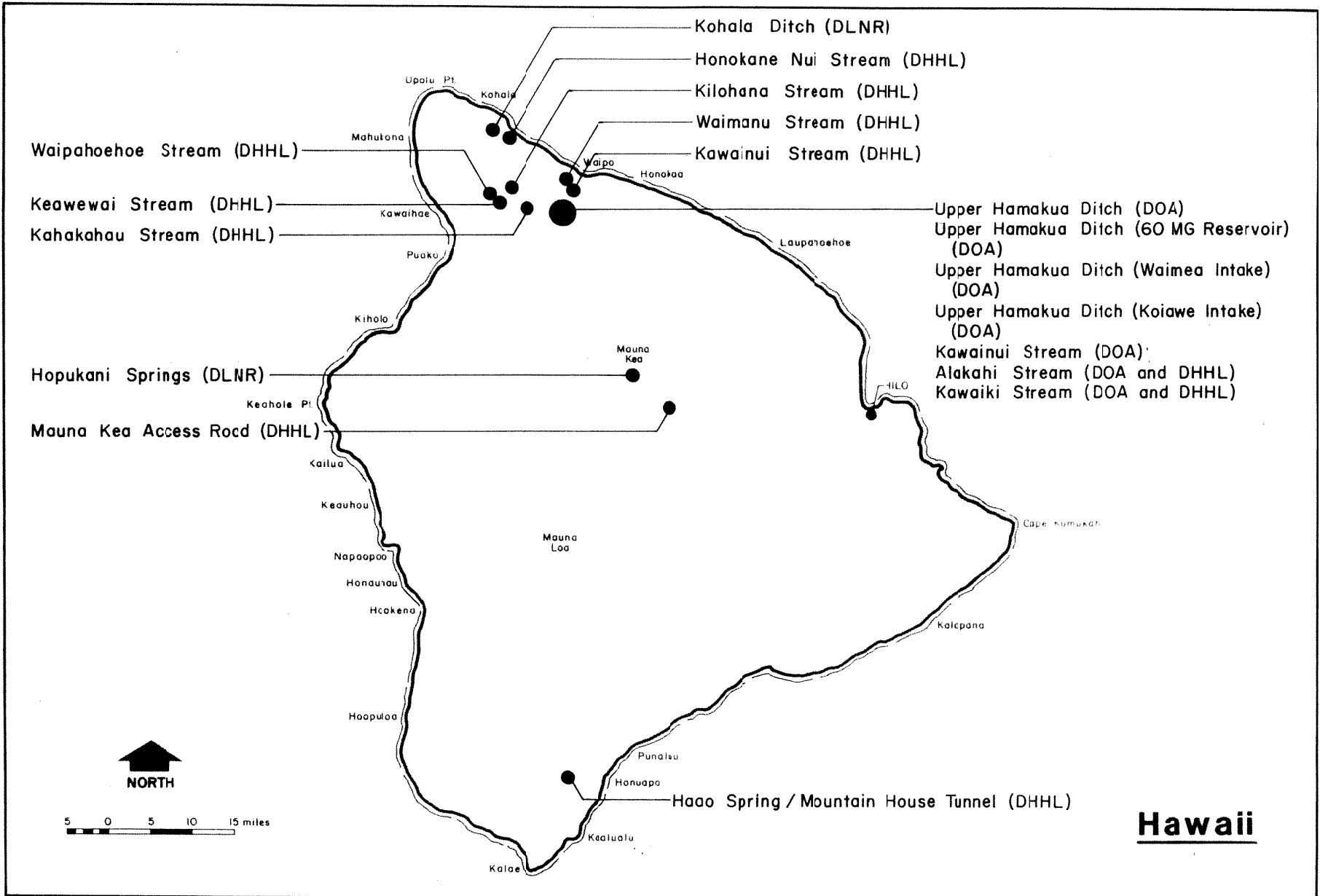
FIG. 2.3



EXISTING REGISTERED STATE DIVERSIONS - ISLAND OF MAUI

FIG. 2.4

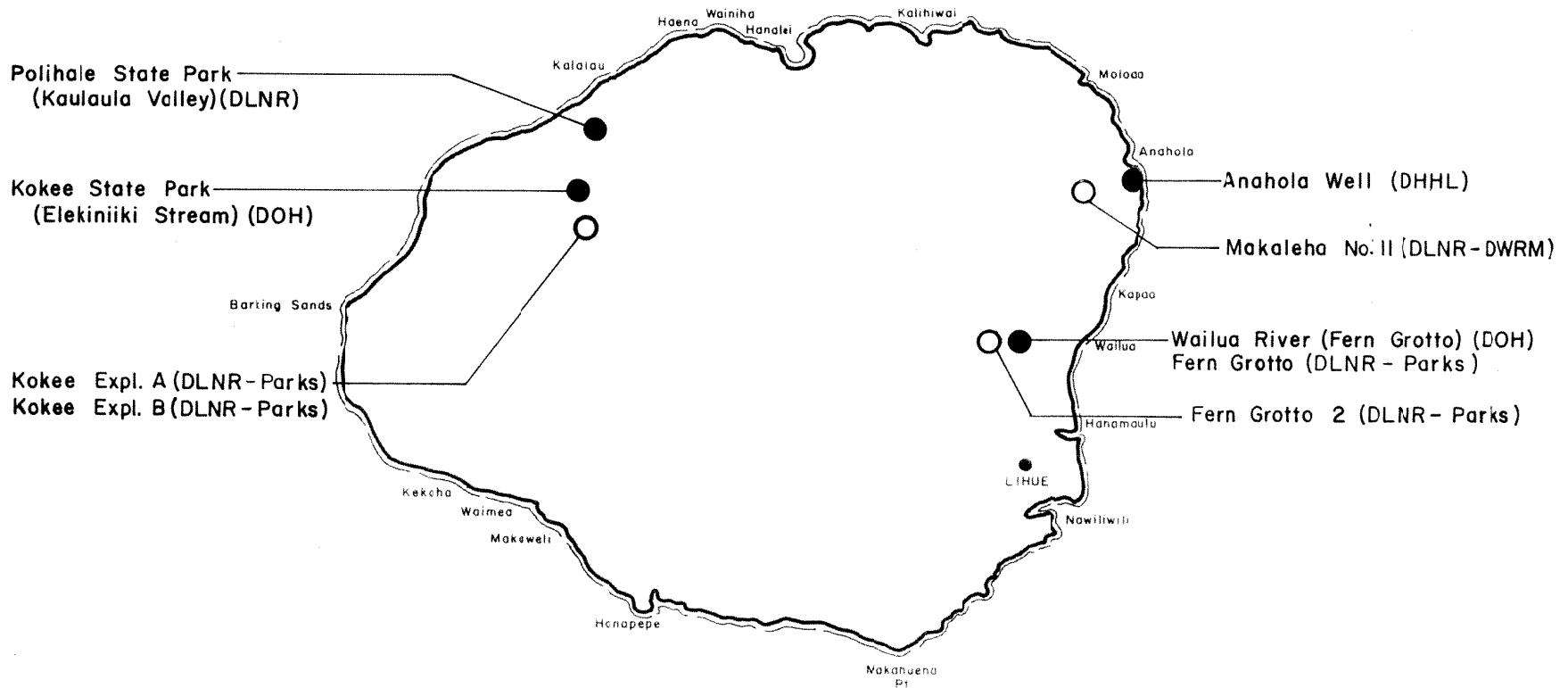






EXISTING REGISTERED STATE DIVERSIONS - ISLAND OF HAWAII

FIG. 2.5

**Hawaii**



  
 NORTH

  
 2 0 2 4 6 miles

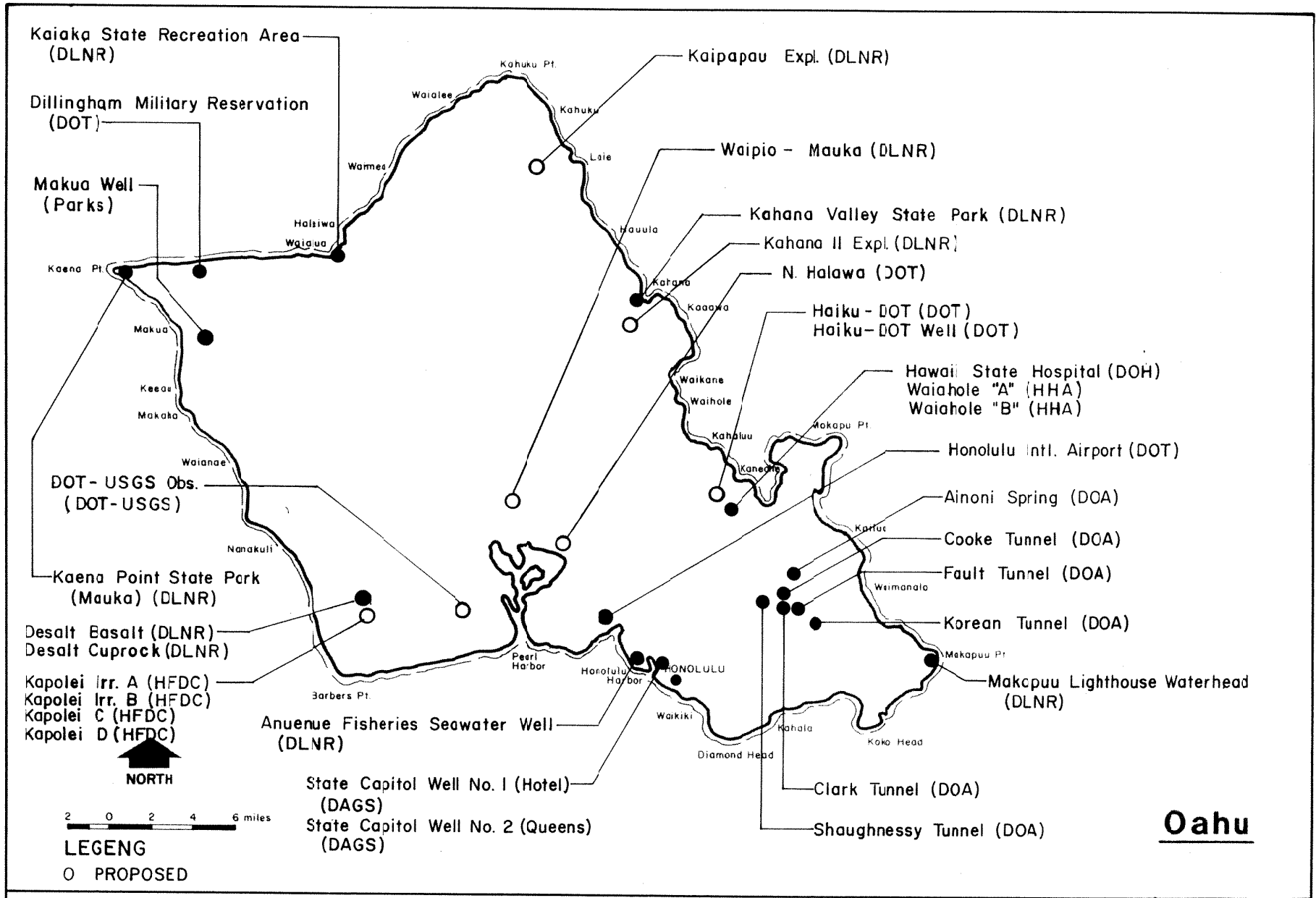
**LEGEND**  
 O PROPOSED

# Kauai

EXISTING REGISTERED STATE WELLS - ISLAND OF KAUAI

FIG. 2.6

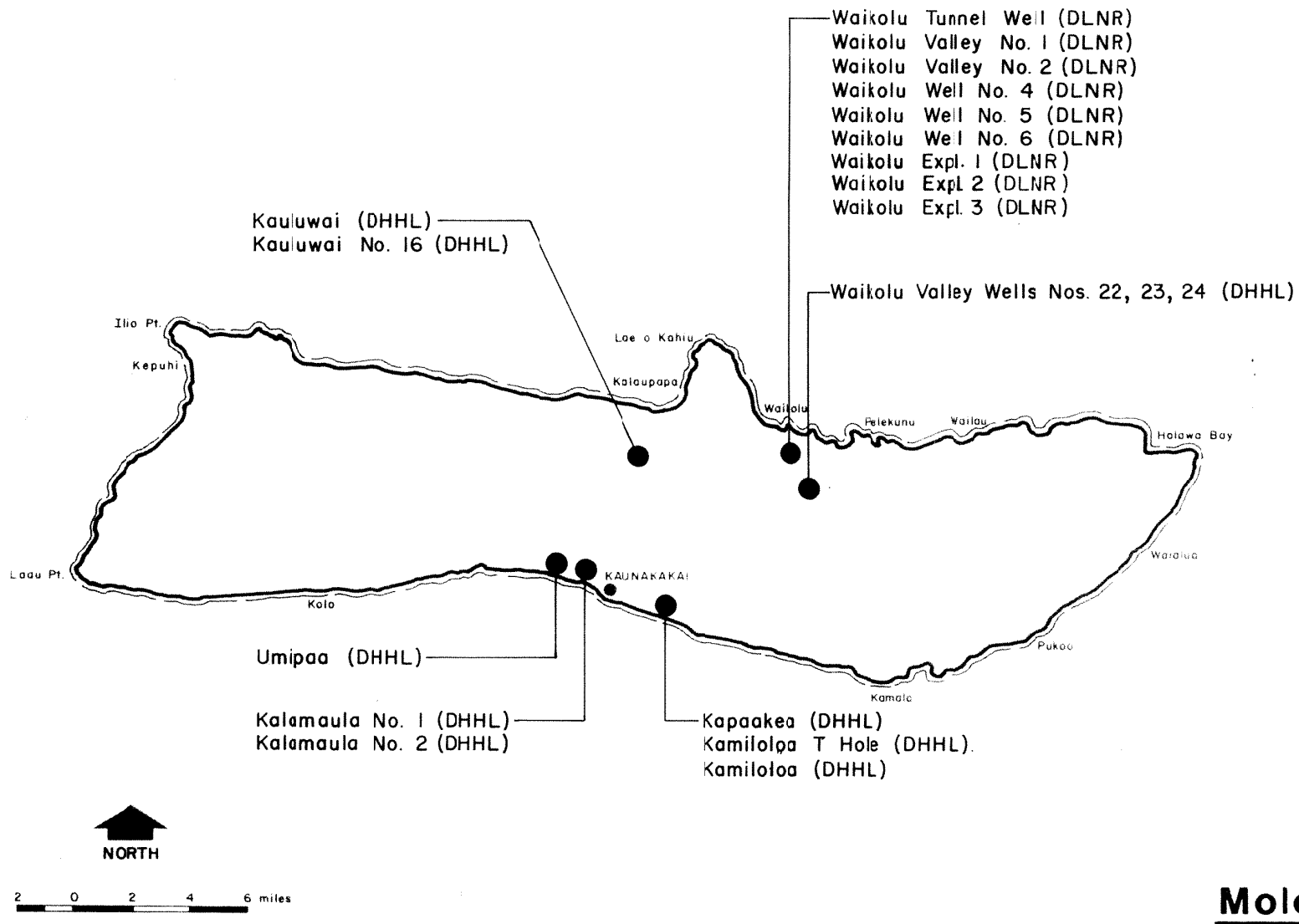
2-9



EXISTING REGISTERED STATE WELLS - ISLAND OF OAHU

**Oahu**

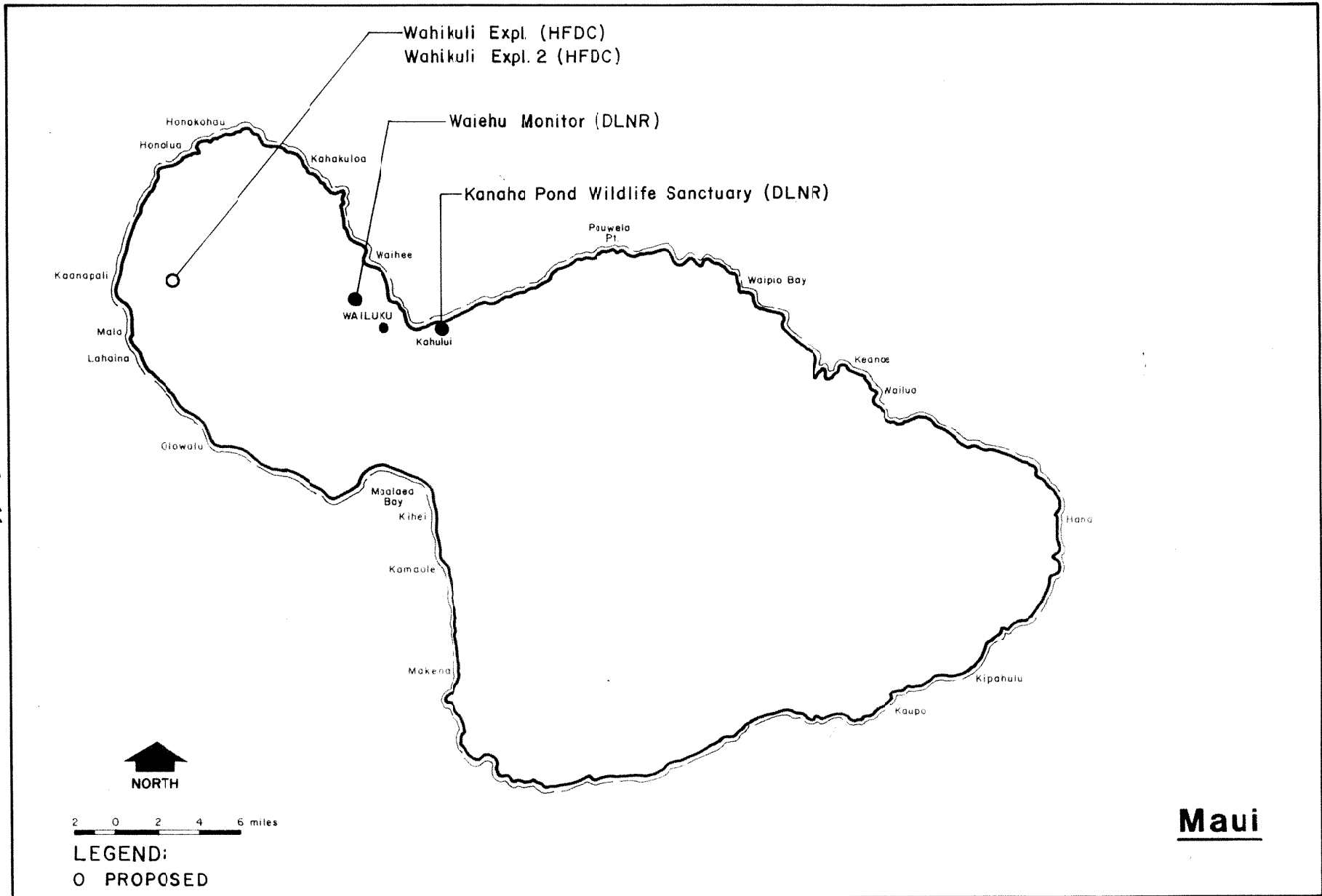
FIG. 2.7



**Molokai**

**EXISTING REGISTERED STATE WELLS - ISLAND OF MOLOKAI**

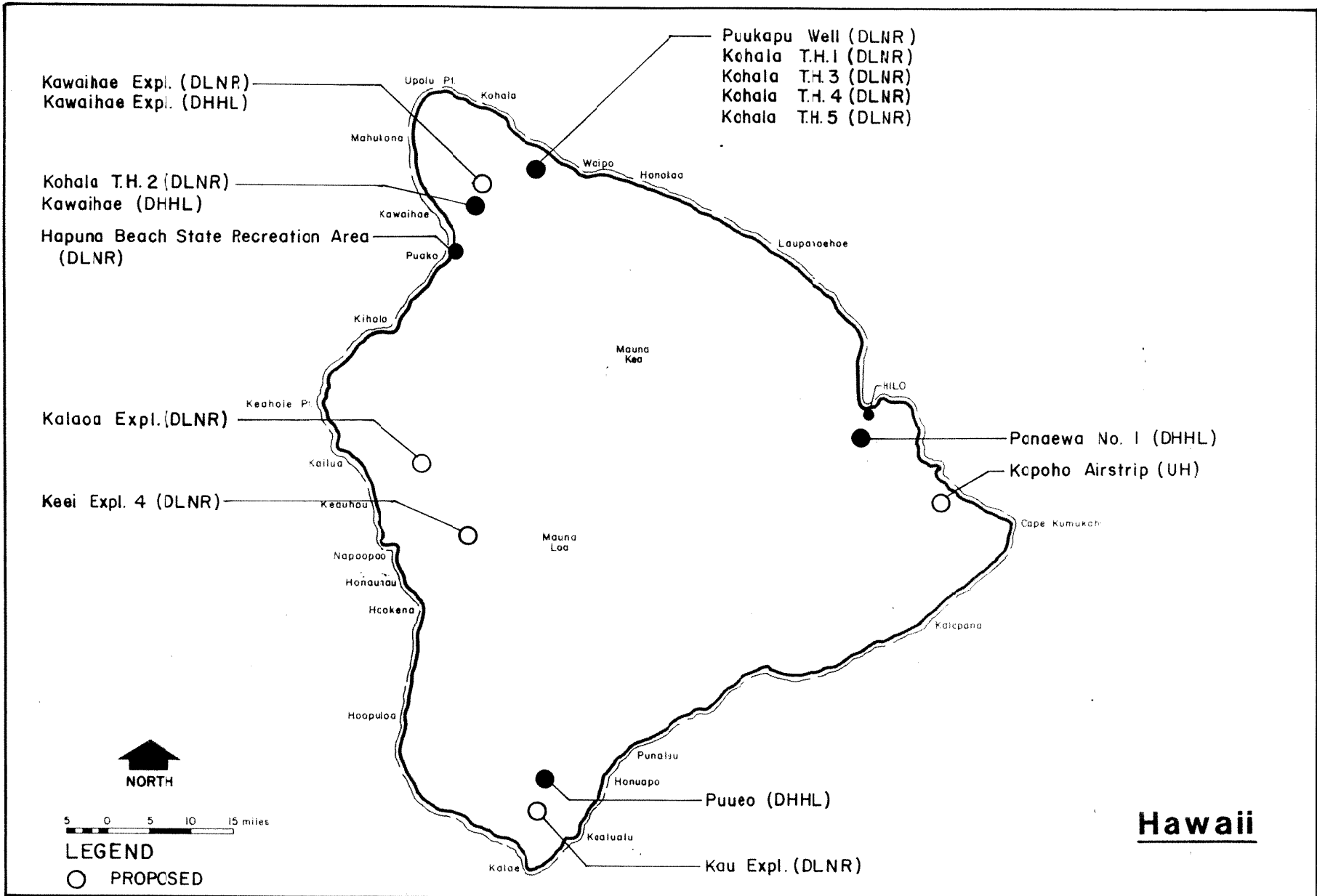
**FIG. 2.8**



**Maui**

EXISTING REGISTERED STATE WELLS - ISLAND OF MAUI

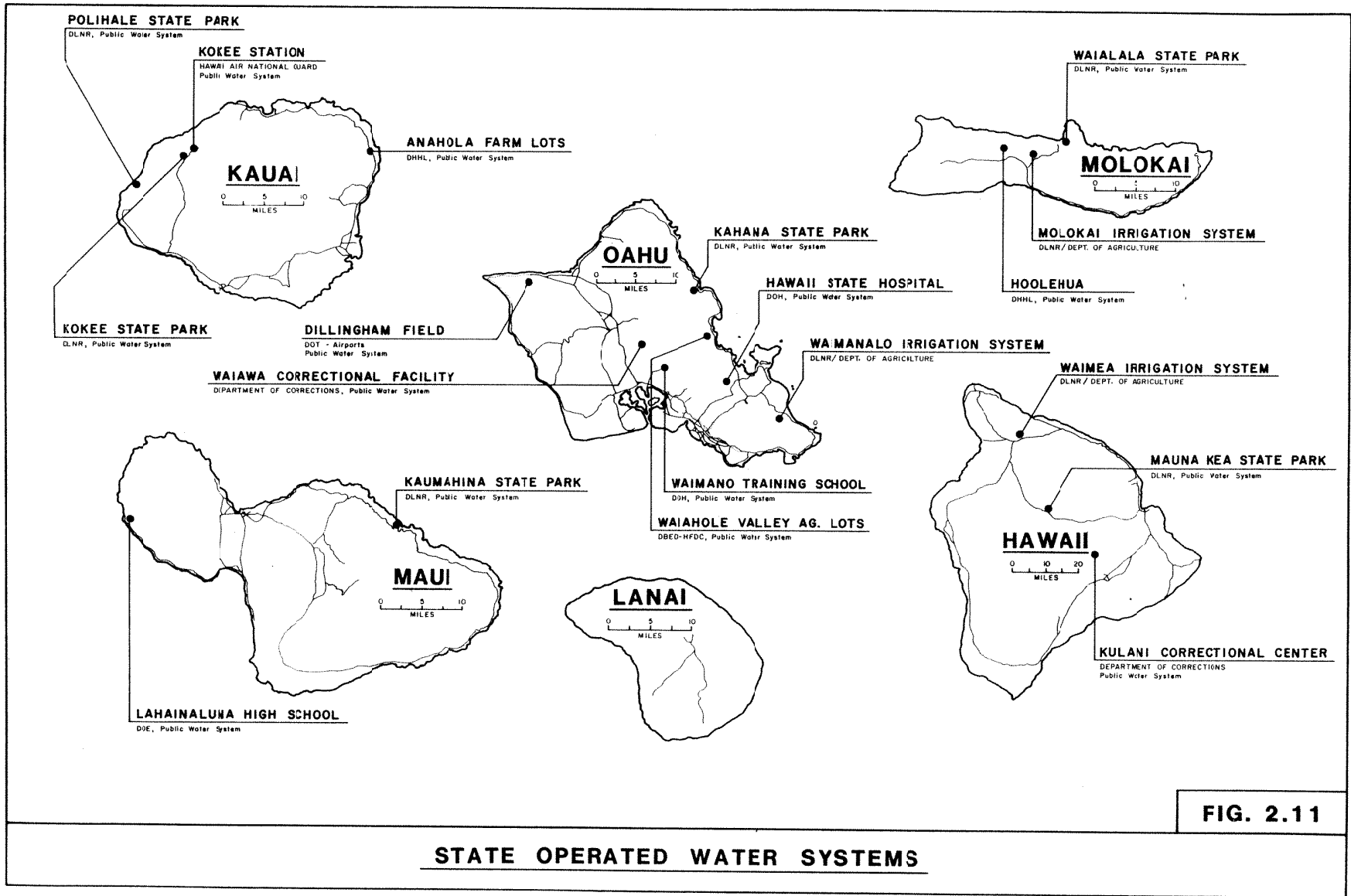
FIG. 2.9



# Hawaii

EXISTING REGISTERED STATE WELLS - ISLAND OF HAWAII

FIG. 2.10



**FIG. 2.11**

**STATE OPERATED WATER SYSTEMS**

TABLE 2.1 - MAJOR STATE OPERATED IRRIGATION SYSTEMS

FISCAL YEAR	MOLOKAI IRRIGATION SYSTEM		WAIMANALO IRRIGATION SYSTEM		WAIMEA IRRIGATION SYSTEM							
	WATER SOLD (MG)	AVE ACRES SERVED	WATER SOLD (MG)	AVE ACRES SERVED	LALAMILO SECTION		PUUKAPU SECTION		DHHL SECTION		TOTAL	
					WATER SOLD (MG)	AVE ACRES SERVED	WATER SOLD (MG)	AVE ACRES SERVED	WATER SOLD (MG)	AVE ACRES SERVED	WATER SOLD (MG)	AVE ACRES SERVED
1982-1983	806.88	3720	122.62	974	266.46	278	36.09	92	24.41	93	326.96	463
1983-1984	1011.54	3854	135.58	974	358.94	278	55.83	94	49.30	98	464.07	470
1984-1985	1185.27	3999	72.12	974	297.73	278	69.79	99	56.85	99	424.36	476
1985-1986	1029.00	4084	76.90	974	301.53	277	49.80	99	40.30	101	391.63	477
1986-1987	1089.63	4372	65.14	974	300.59	278	40.55	108	26.99	101	368.13	487
1987-1988	1241.06	4563	64.17	971	341.71	278	37.91	106	27.28	103	406.90	487
AVERAGE AVE (MGD)	1060.56 2.91	4099	89.42 0.24	973	311.16 0.85	278	48.33 0.13	100	37.52 0.10	99	397.01 1.09	477



### Molokai Irrigation System

Since early 1900, many studies were conducted which recommended the development of the abundant water sources of windward Molokai for use in the semi-arid central plain and western slopes of Molokai. In 1955, a study of the Molokai Irrigation Project was made by the U.S. Bureau of Reclamation, and the resulting report, published in 1957, concluded that the project was engineeringly and economically feasible, with direct annual benefits exceeding the annual costs by a ratio of 2.6 to 1.0. With the attainment of statehood in August 1959, the provisions of the Federal Small Reclamation Projects Act of 1956 were extended to Hawaii through the Hawaii Omnibus Bill. As the Molokai Irrigation Project then qualified for a loan under this Act, the Department of Land and Natural Resources updated the Bureau of Reclamation's report and subsequently applied for a Federal loan. The project at that time was estimated to cost \$9.9 million.

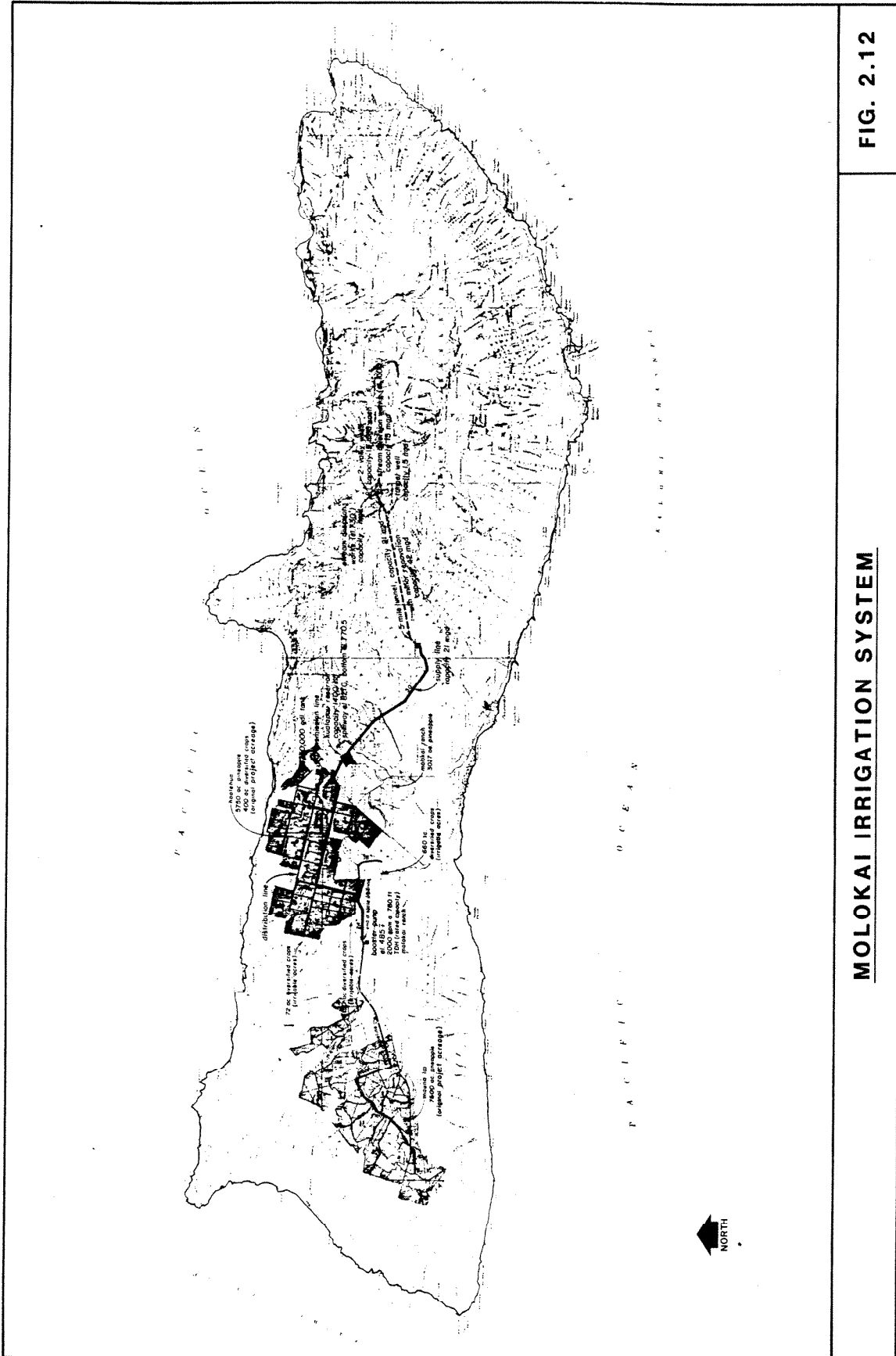
At the time of the loan application, the Molokai Tunnel was being constructed with State funds. The application for the Federal loan was approved and the implementation of the balance of the project plan, including the construction of a supply conduit, transmission and distribution lines, and a storage reservoir, was completed with State appropriations and a Federal loan of \$4.5 million.

The primary facilities of the Molokai Irrigation System were completed in 1967, at which time the system became operational. Subsequently, additional facilities were constructed to increase the supply of water and extend the service area. The Molokai Irrigation System is shown in Figure 2.12.

### Waimanalo Irrigation System

The Waimanalo Irrigation System is located at Waimanalo, District of Koolau, on the northeasterly or windward coast of the island of Oahu. The system was developed for sugar cane irrigation by the Waimanalo Sugar Company, beginning in 1878 and ending in 1947. The system has been operated by the State (previously Territorial) government since November 1953. The Waimanalo Irrigation system serves approximately 1000 acres of land, much of which are referred to as the Waimanalo Farm Lots and the Waimanalo Agricultural Park. Also served by the system is the University of Hawaii Experimental Farm.

The primary source of water to the Waimanalo Irrigation System is the Maunawili Ditch which collects water from high-level tunnels, springs and streams in Maunawili Valley. Water is transported to Waimanalo through the Aniani Nui tunnel. The distribution and collection system including ditches, pipelines and



**MOLOKAI IRRIGATION SYSTEM**

**FIG. 2.12**

reservoirs have recently been upgraded to improve the reliability of the system. The average water production of the system is 0.18 mgd. The Waimanalo Irrigation System is shown in Figure 2.13.

### Waimea Irrigation System

The Waimea Irrigation System is located near Puukapu, in the Hamakua District on the northeast or windward coast of the island of Hawaii. The source of water for this system is the Kohala Mountain Watershed, and the major conveyance from this watershed is the Upper Hamakua Ditch. The Upper Hamakua Ditch which is a series of lined and unlined ditches, flumes and tunnels, primarily intercepts the Kawainui, Kawaiki and Alakahi Streams. The Koiawe and Waima Streams as well as other smaller tributaries also contributes runoff into the system.

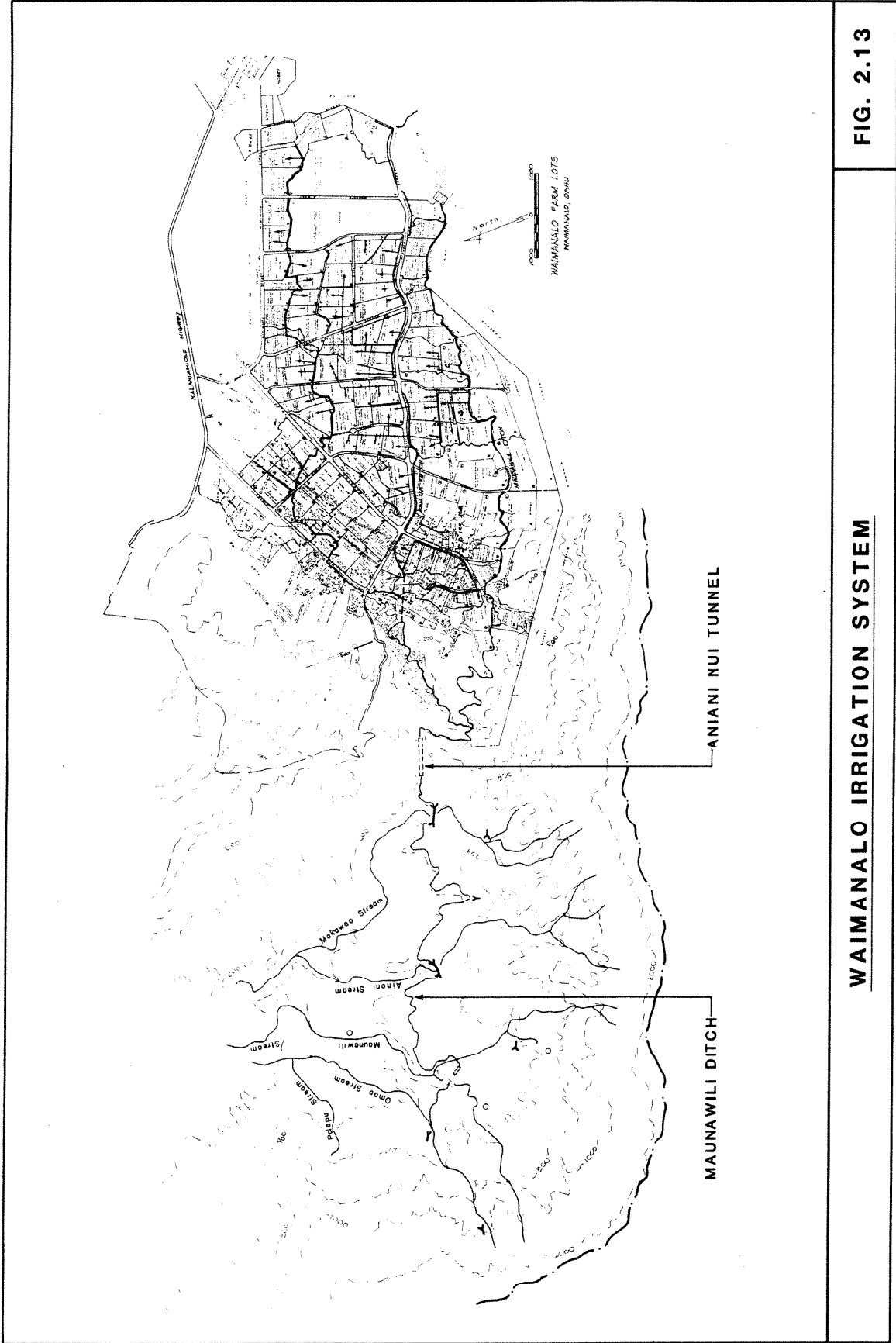
The Upper Hamakua Ditch was originally constructed by the Hawaii Irrigation Company to provide water for sugar cane plantations along the Hamakua Coast. The Hawaii Irrigation Company operated and maintained the ditch until 1948. The control of the ditch subsequently fell under the jurisdiction of the State's Department of Land and Natural Resources, Division of Water and Land Development (formerly Hawaii Irrigation Authority) for its irrigation operations and the County of Hawaii's Department of Water Supply for the Ahualoa-Honokaa domestic water system (the Puu Pulehu Reservoir). The County abandoned the Puu Pulehu Reservoir storage in 1977. The control of the Waimea Irrigation System as well as the two other major irrigation systems, is presently under the State Department of Agriculture. The system currently serves the Lalamilo Farm Lot Subdivision, the Puukapu Homesteads, and the Hawaiian Homelands Lots. The Waimea Irrigation System is shown in Figure 2.14.

## 2.3.2 Potable Water Systems

### 2.3.2.1 Public Water Systems

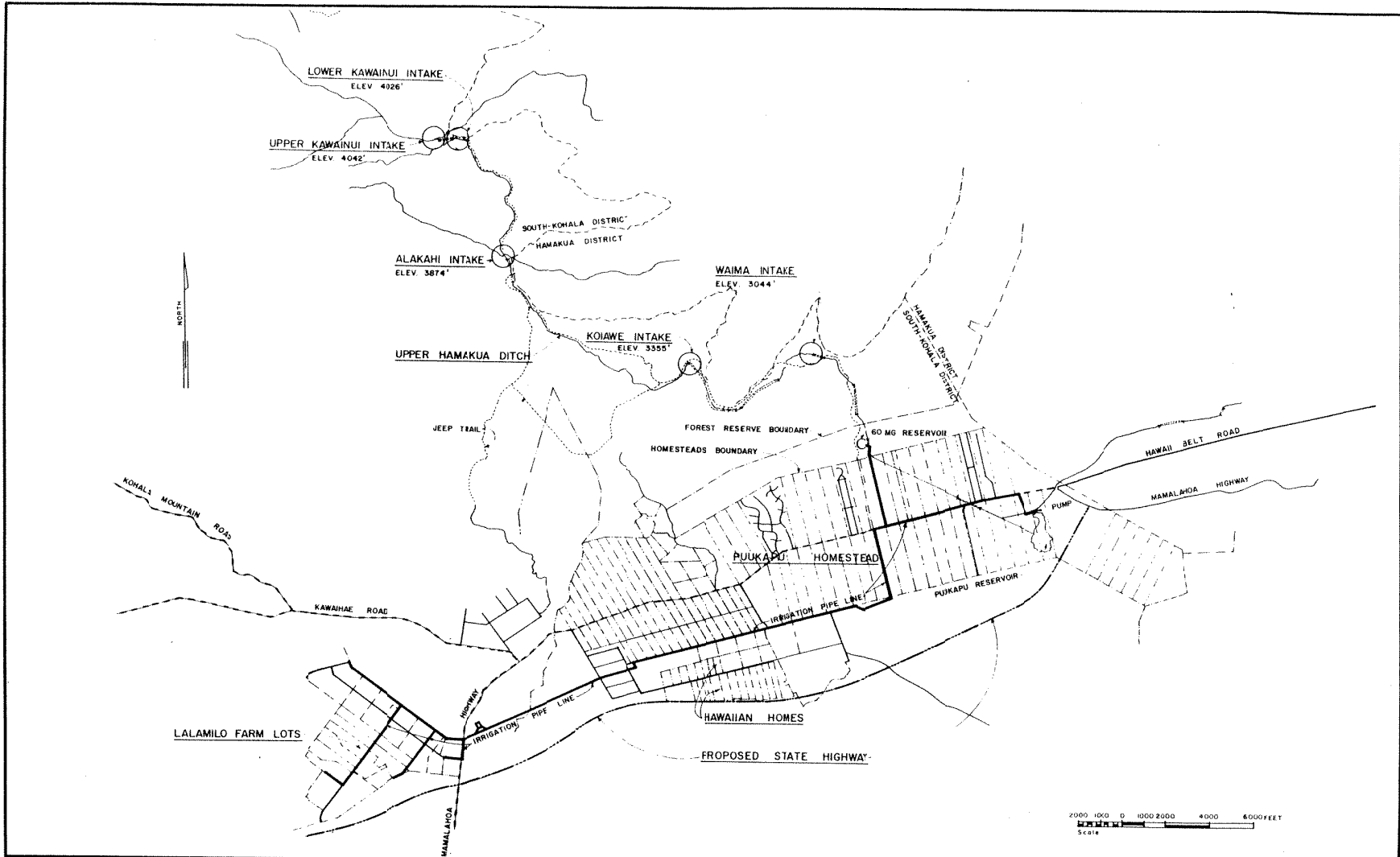
The State of Hawaii currently operates sixteen (16) public water systems (see Table 2.2). Public water systems are defined as those systems that either have 15 or more service connections or regularly serve an average of 25 or more people daily for at least 60 days each year. Public water systems are subject to State Department of Health (DOH) and National Environmental Protection Agency (EPA) regulations to ensure compliance with Safe Drinking Water Act (SDWA) requirements.

Of the sixteen State public water systems, five are supplies at State park facilities serving primarily visitors or intermittent users. Five of the public water systems serve as water supplies to institutional users; (1) Hawaii State Hospital (2) Waimano Training School,



**FIG. 2.13**

**WAIMANALO IRRIGATION SYSTEM**



**WAIMEA IRRIGATION SYSTEM**

**FIG. 2.14**

**TABLE 2.2 - ACTIVE PUBLIC WATER SYSTEMS OPERATED BY STATE AGENCIES**

<u>SYSTEM NAME</u>	<u>AGENCY</u>	<u>POPULATION SERVED</u>	<u>SOURCE TYPE</u>
<b>ISLAND OF HAWAII</b>			
Kulani Correctional Center	Department of Public Safety	204	Surface
Maunakea State Park	DLNR-Division of State Parks	25	Ground
<b>ISLAND OF KAUAI</b>			
Anahola Farm Lots	Department of Hawaiian Home Lands	32	Ground
Kokee State Park	DLNR-Division of State Parks	1000	Surface
Kokee Station	Hawaii Air National Guard	200	Ground
Poli Hale State Park	DLNR-Division of State Parks	1000	Ground
<b>ISLAND OF MAUI</b>			
Kaumahina State Park	DLNR-Division of State Parks	300	Surface
Lahainaluna High School	Department of Education	798	Surface
<b>ISLAND OF MOLOKAI</b>			
Hoolehua	Department of Hawaiian Home Lands	1700	Ground
Waialala	DLNR-Division of State Parks	500	Ground
<b>ISLAND OF OAHU</b>			
Dillingham Field	Department of Transportation	1800	Ground
Hawaii State Hospital	Department of Health	2000	Ground
Kahana State Park	DLNR-Division of State Parks	128	Ground
Waiahole Valley	Department of Budget & Finance-HFDC	300	Ground
Waiawa Correctional Facility	Department of Public Safety	200	Surface
Waimano Training School	Department of Health	235	Ground

(3) Waiawa Correctional Facility, (4) Lahainaluna High School, and (5) Kulani Correctional Center. Three of the public systems are primary community water supplies; two for Hawaiian Home Lands developments, (1) Anahola Farm Lots on Kauai, and (2) Hoolehua on Molokai, and one for Department of Budget and Finance Housing Finance and Development Corporation project at Waiahole Valley on Oahu. The Dillingham Field and Kokee Station water systems serves intermittent users at the respective facilities.

### 2.3.3 Other State Water Systems

The State of Hawaii has jurisdiction over other smaller water systems. However, documentation of these small systems, which include such small uses as drinking fountains at State park facilities or stream diversions for irrigation of small farm lots, are very limited. The Water Use Registration Program provides the most current data regarding any known State operated water sources and also provides some indication of their respective water systems.

## **SECTION 3 - PROPOSED WATER-RELATED STATE PROJECTS**

### **3.1 GENERAL**

The State of Hawaii, in its effort to satisfy the many needs of the public, has numerous projects scheduled for implementation by the various state agencies. In order to anticipate the future water requirements of proposed state projects, an inventory of state programmed projects requiring water was compiled. The various state agencies were contacted for their proposed project listings and schedules if available. The collected data were reviewed and sorted to obtain a listing of projects that may have significant water requirements. In general, projects involving new housing developments, agriculture/irrigation projects and major facilities or major expansions were considered as having significant impact on water resources.

### **3.2 INVENTORY OF PROPOSED WATER-RELATED PROJECTS**

#### **3.2.1 Methodology**

The project data obtained from the various State agencies were entered onto a "STATE PROJECT DATA SHEET". A sample form is shown in Figure 3.1. The form was used to standardized the format of information collected and also to quickly determine any missing elements of required project information. The information was then input into a computerized database to enable systematic sorting and extraction of data. Data sheets, with the collected agency information, were then printed and distributed to the various agencies for review, comment and ammendment. Upon receipt of comments from the various agencies, the database was revised and updated.

#### **3.2.2 Evaluation of Collected Data**

The data obtained from the various State agencies varied in content, detail and format with respect to water related information. The information collected during this update was significantly more complete than was available during the initial effort. It was evident that agency awareness of the importance of water planning increased, and that the data will continue to be more consistent and complete in future updates.

A significant improvement in the data collected was the scheduling information for the various projects. A conscious attempt to obtain timeline information allowed more



**STATE WATER PROJECTS PLAN**  
**STATE PROJECT DATA SHEET**

PROJECT NAME: \_\_\_\_\_

DEPARTMENT: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COUNTY: \_\_\_\_\_

ISLAND: \_\_\_\_\_

HYDROLOGIC AREA: \_\_\_\_\_

SOURCE TYPE:     GROUND                       SURFACE                       BRACKISH

PRIMARY USE:     POTABLE                       IRRIGATION                       OTHER

WATER SUPPLIER: \_\_\_\_\_

**PROJECT DATA**

PROJECT AREA (ACRES) :                      \_\_\_\_\_

DEMAND PER ACRE (GPD) :                      \_\_\_\_\_

NUMBER OF UNITS :                              \_\_\_\_\_

DEMAND PER UNIT :                              \_\_\_\_\_

**AGENCY ESTIMATE**

EXISTING DEMAND :                              \_\_\_\_\_

ESTIMATED ULTIMATE DEMAND :                      \_\_\_\_\_

**PROJECTIONS**

PROJECTED PERCENT OF ULTIMATE DEMAND

YEAR	1990	1995	2000	2005	2010
	_____	_____	_____	_____	_____

**FIGURE 3.1 - SAMPLE DATA ENTRY FORM**

detailed projection of water demands. In addition to the identification of areas where high demands are proposed, the urgency of the demands could also be indicated.

Estimated water requirements for the various proposed projects were generally not available from the agencies unless specific engineering or planning studies were made for the specific projects. For those projects which did not have agency developed water requirements, an estimated value was determined using standard planning methods. The methods used are described later in this section.

### **3.3 PROPOSED WATER-RELATED PROJECTS BY STATE AGENCIES**

The project data collected and compiled in this study are summarized in tabular form in Appendix D. Specific project data sheets were generated from the computerized database but are not included in this report. General descriptions of the projects proposed by the various agencies follows.

#### **3.3.1 Department of Accounting and General Services**

The Department of Accounting and General Services (DAGS) functions as a State facilities planning and engineering agency, servicing other State departments and agencies that require technical support. Among the various agencies serviced by DAGS are the Department of Education, Department of Health, the Judiciary, Department of Public Safety, the University of Hawaii and the Aloha Stadium. Projects for these and other departments are listed under their respective headings. The projects listed for the Department of Accounting and General Services are several proposed Civic Center Projects being developed primarily by DAGS. The projects are shown in Figure 3.2.

#### **3.3.2 Department of Agriculture**

Major water-related projects by the Department of Agriculture (DOA) are associated with the development or expansion of agricultural parks. The State agricultural park program was initiated to provide Hawaii's farmers with essential land and water resources to ensure economically viable farm operations with long term tenure and security from urbanization pressures, and to promote economies in farm production and distribution through common facilities and activities. In general, the program seeks to support Hawaii's diversified agricultural industries.

The DOA proposes several new agricultural parks as well as expansion of existing complexes. In addition to agricultural park projects, the DOA also operates three major irrigation systems. With the ever increasing demand for reliable agricultural water sources, the DOA also proposes to improve these systems. The proposed DOA agricultural park and irrigation system projects are shown in Figure 3.3.

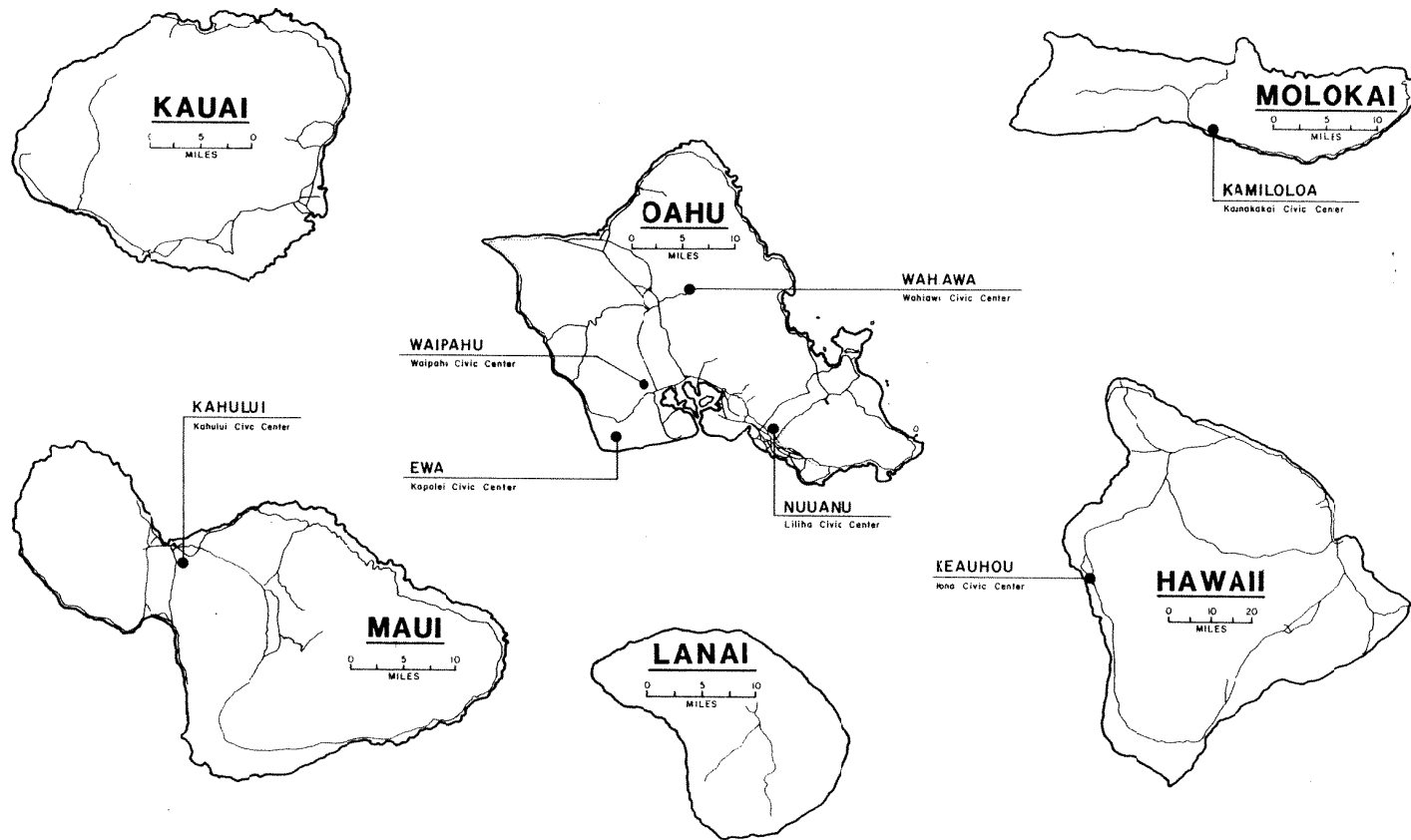


FIG. 3.2

**PROPOSED PROJECTS FOR THE DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES**

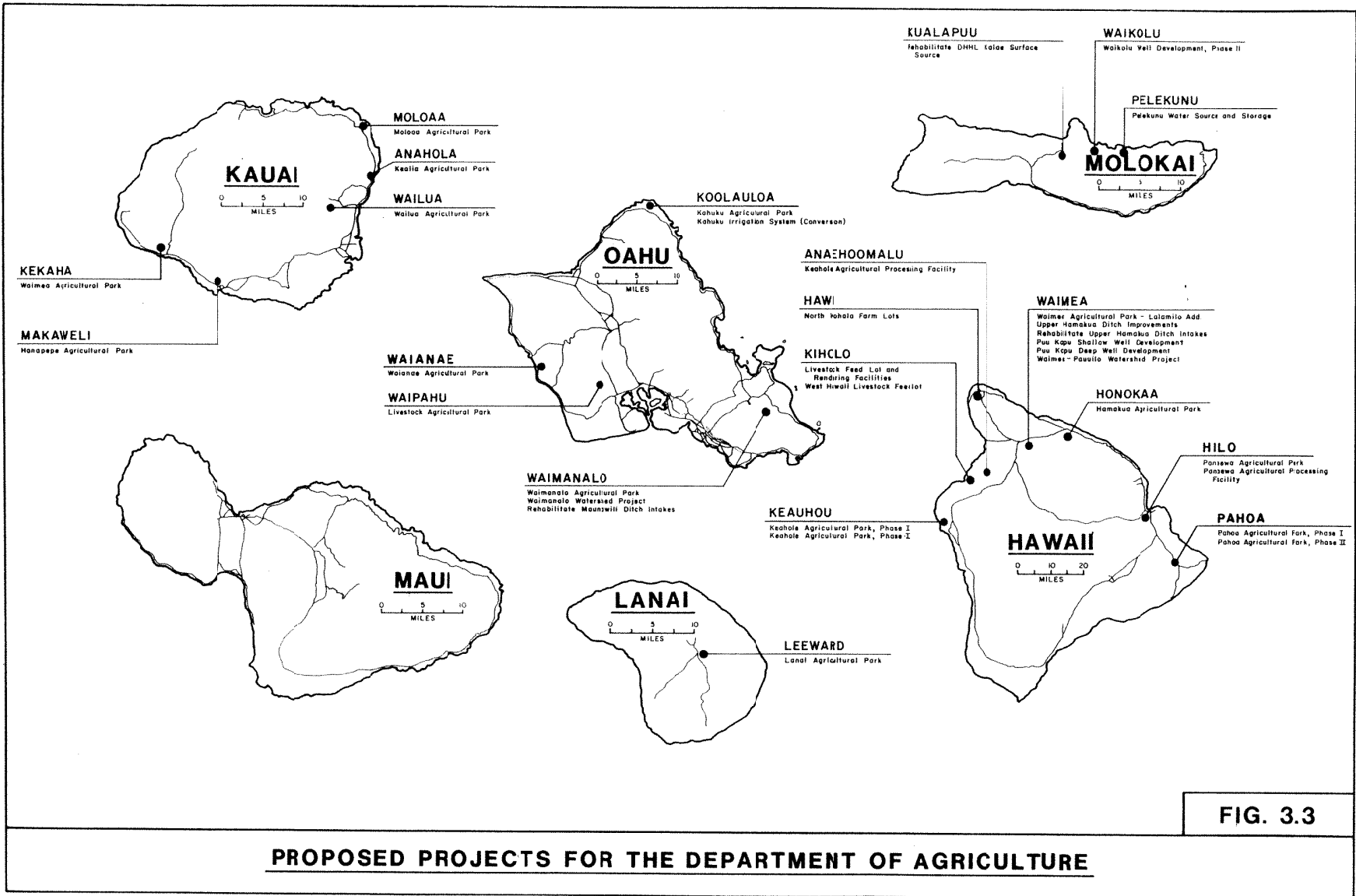


FIG. 3.3

**PROPOSED PROJECTS FOR THE DEPARTMENT OF AGRICULTURE**

### 3.3.3 Department of Budget & Finance

The Housing Finance and Development Corporation (HFDC), currently operating within the Department of Budget and Finance, is the primary State agency delegated to rectify the affordable housing shortage experienced throughout the State. HFDC has assembled an extensive list of proposed projects to assist in relieving the shortage of affordable housing units. Proposed projects include both rental units and sale units. Large project districts are also proposed in areas where demand for housing is extremely critical. General locations of the various projects are shown in Figure 3.4.

Three of the HFDC projects stand out as having significant impact on the local infrastructure, primarily because of the proposed magnitude (number of units) of the developments. The three major projects are (1) Kealakehe Master Plan, in South Kona, island of Hawaii with 3900 units, (2) Lahaina Master Plan on the island of Maui with 4800 units, and (3) Kapolei Village in the Ewa District, island of Oahu with over 5000 units. A summary listing of all proposed HFDC projects and respective unit counts are included in Appendix D.

### 3.3.4 Department of Business, Economic Development and Tourism

The Department of Business, Economic Development and Tourism (DBEDT) is involved with exploring and pursuing opportunities for the State of Hawaii to broaden and diversify its economic base. Among the major projects proposed by the DBEDT are the Aloha Tower Development, the Kakaako Redevelopment Project, the Honolulu Waterfront Project and the Waikiki Convention Center. These and other DBEDT projects are shown in Figure 3.5.

### 3.3.5 Department of Defense

The Department of Defense (DOD) plans to improve many of its existing facilities and training sites. In addition to its existing facilities, the DOD is in the process of establishing a new Veterans cemetery. The proposed Department of Defense projects are shown in Figure 3.6.

### 3.3.6 Department of Education

The Department of Education (DOE) Facilities and Staff Services Branch has developed a Facilities Program to provide educational facilities that are well placed, sufficient in number, flexible, functional, and creatively designed and also to insure that the facilities accommodate population increases in growing residential areas, support the educational program, and promote the health and safety of the students, employees and the public. In an effort to achieve these objectives the DOE has projected its future facilities requirements as part of its Capital Improvements Program.

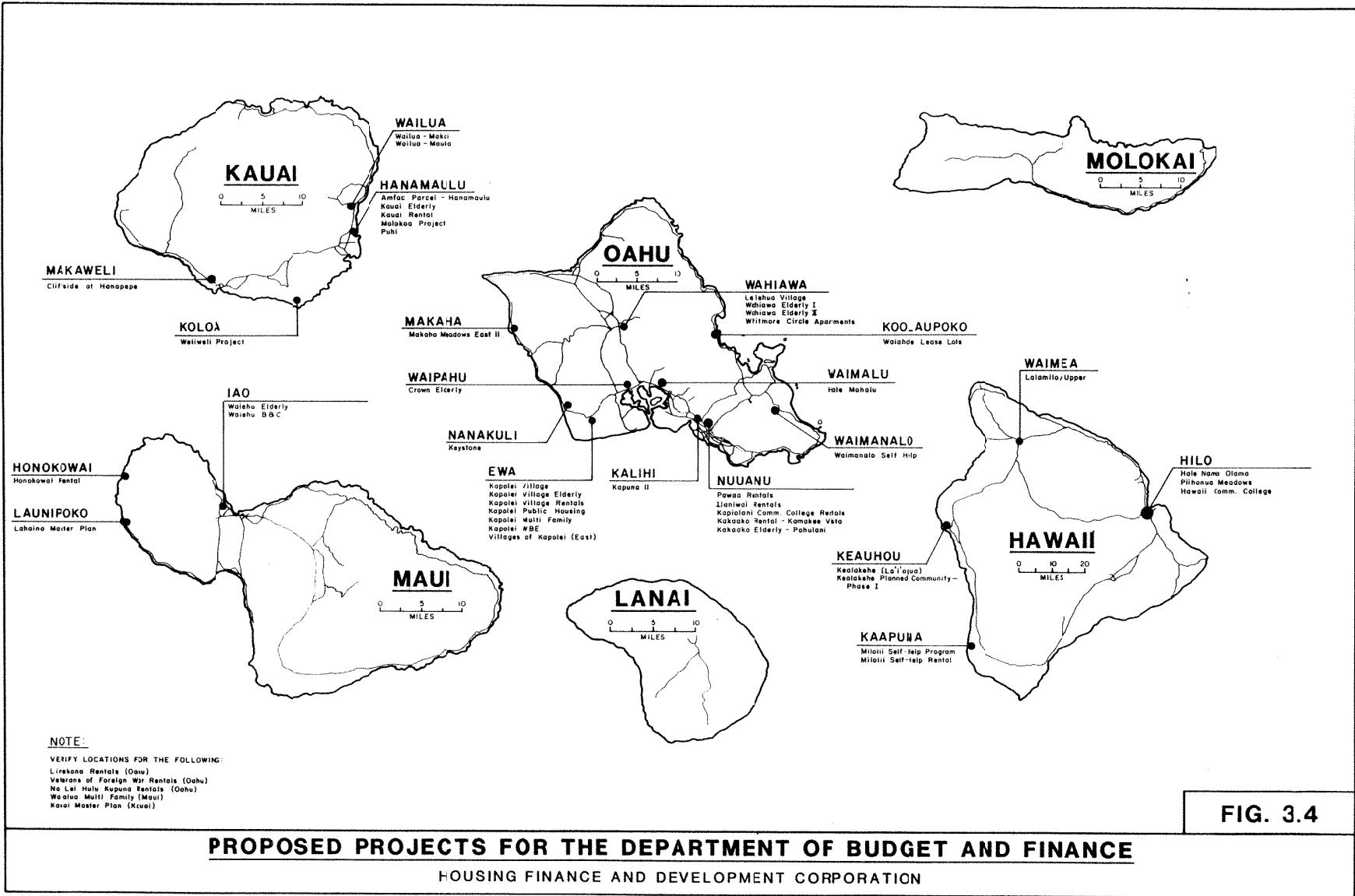


FIG. 3.4

**PROPOSED PROJECTS FOR THE DEPARTMENT OF BUDGET AND FINANCE**

HOUSING FINANCE AND DEVELOPMENT CORPORATION

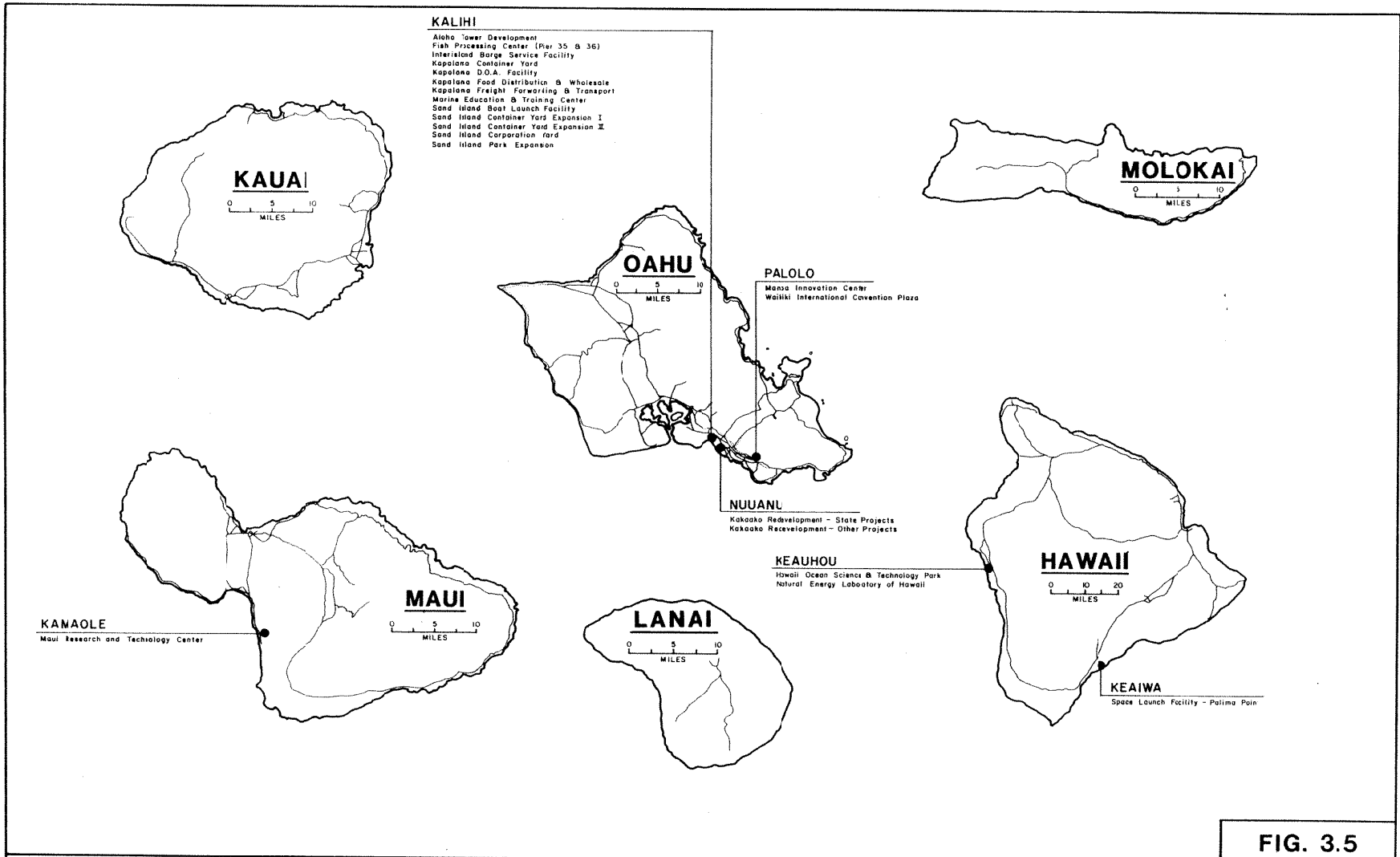
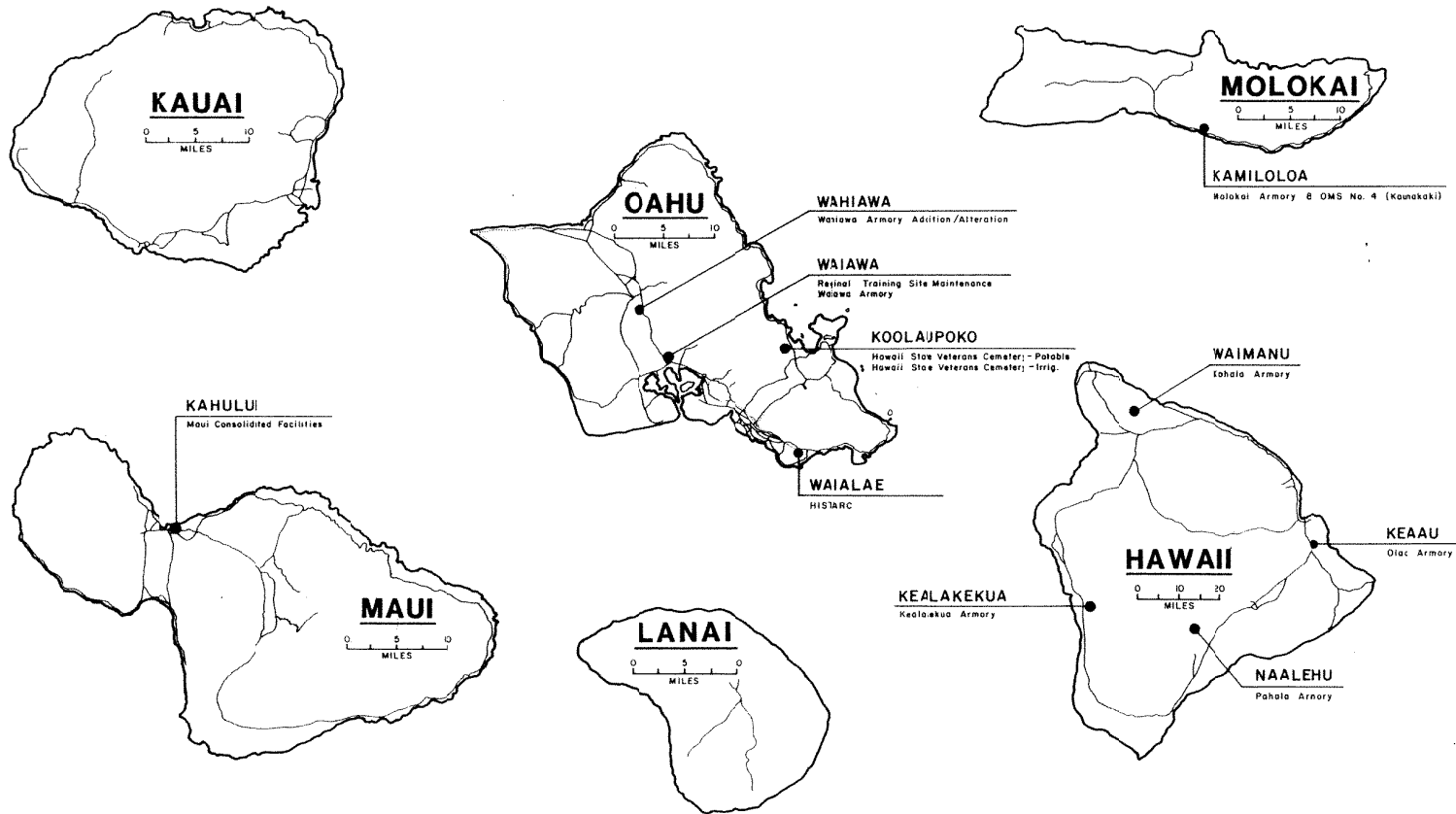


FIG. 3.5

PROPOSED PROJECTS FOR THE DEPT. OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM



**NOTE:**  
 Oahu Armories - 1 Sites (Locations to be determined)

**FIG. 3.6**

**PROPOSED PROJECTS FOR THE DEPARTMENT OF DEFENSE**



The DOE anticipates a potential shortage of classrooms based on the projected growth in enrollment. In addition to expansion of existing school facilities, the construction of 50 new schools by the year 2010. The new school facilities are generally in areas of projected population growth and should be in concert with projected statewide growth patterns. The locations of the proposed school facilities are shown in Figure 3.7.

### 3.3.7 Department of Hawaiian Home Lands

The Department of Hawaiian Home Lands (DHHL) is delegated with the administration of lands that have been set aside for the benefit of qualified native Hawaiians. Qualified native Hawaiians are eligible to receive homestead leases and financial assistance from the DHHL. DHHL manages about 190,000 acres of land, of which over 30,000 acres are presently in homestead use. In its effort to provide additional homestead lots to qualified applicants, DHHL has proposed an extensive Capital Improvements Program. The program projects the development of nearly 10,000 lots over the next 10 years. The proposed DHHL projects are shown in Figure 3.8.

### 3.3.8 Department of Human Services

The Hawaii Housing Authority (HHA) of the Department of Human Services (DHS) plans to develop several affordable rental projects throughout the State. The DHS projects which also include the Office of Youth Services' Youth Correctional Facility are shown in Figure 3.9.

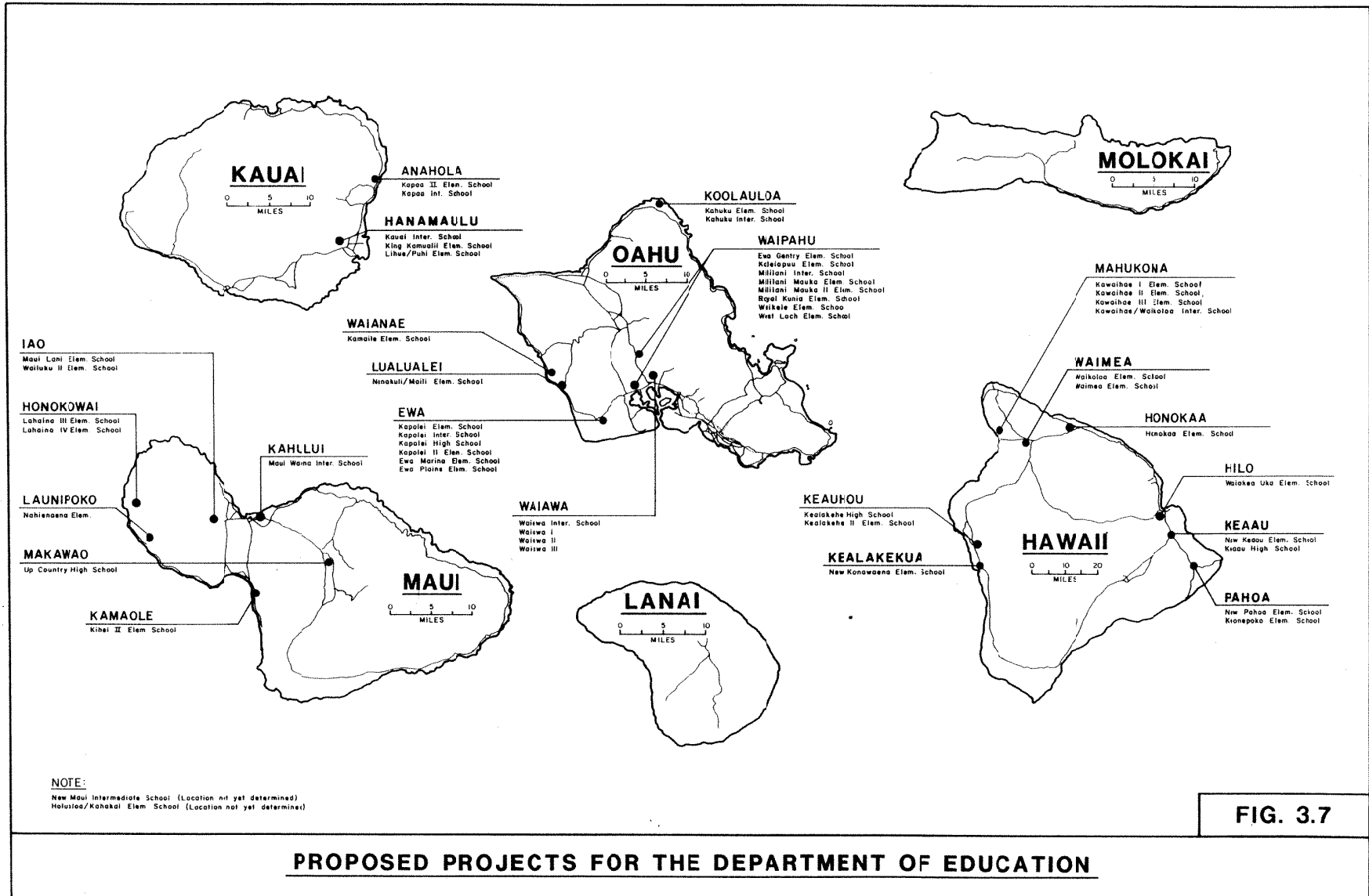
### 3.3.9 Department of the Judiciary

The Department of the Judiciary which operates the State's court systems proposes four new facilities. These projects are shown in Figure 3.10.

### 3.3.10 Department of Land & Natural Resources

The Division of Water Resources Management (DWRM) is the primary agency involved in the exploration and management of water resources in the State. Among its many responsibilities, DWRM's Capital Improvements Program include the drilling of exploratory wells, well pump testing, and the master planning of water systems. Primary beneficiaries of DWRM's efforts include the various county water departments as well as other State agencies (e.g. Department of Agriculture and Department of Hawaiian Home Lands). DWRM generally responds to the needs and requests of the various counties and state agencies as their water resource requirements are determined.

Other divisions within DLNR include the Division of Aquatic Resources, the Aquaculture Development Program, the Division of State Parks, and the Division of Land Management. Proposed projects for DLNR are shown in Figure 3.11.



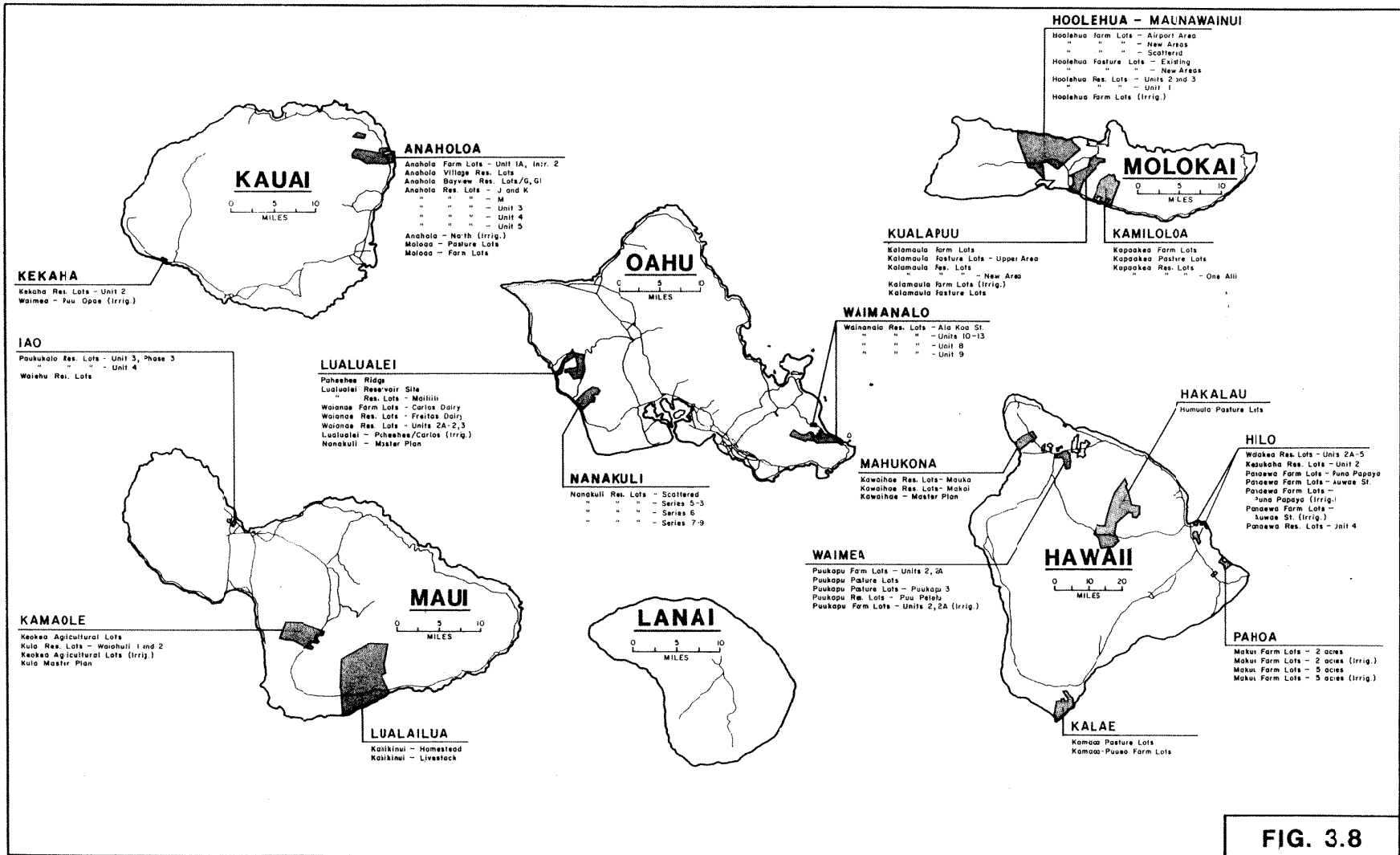
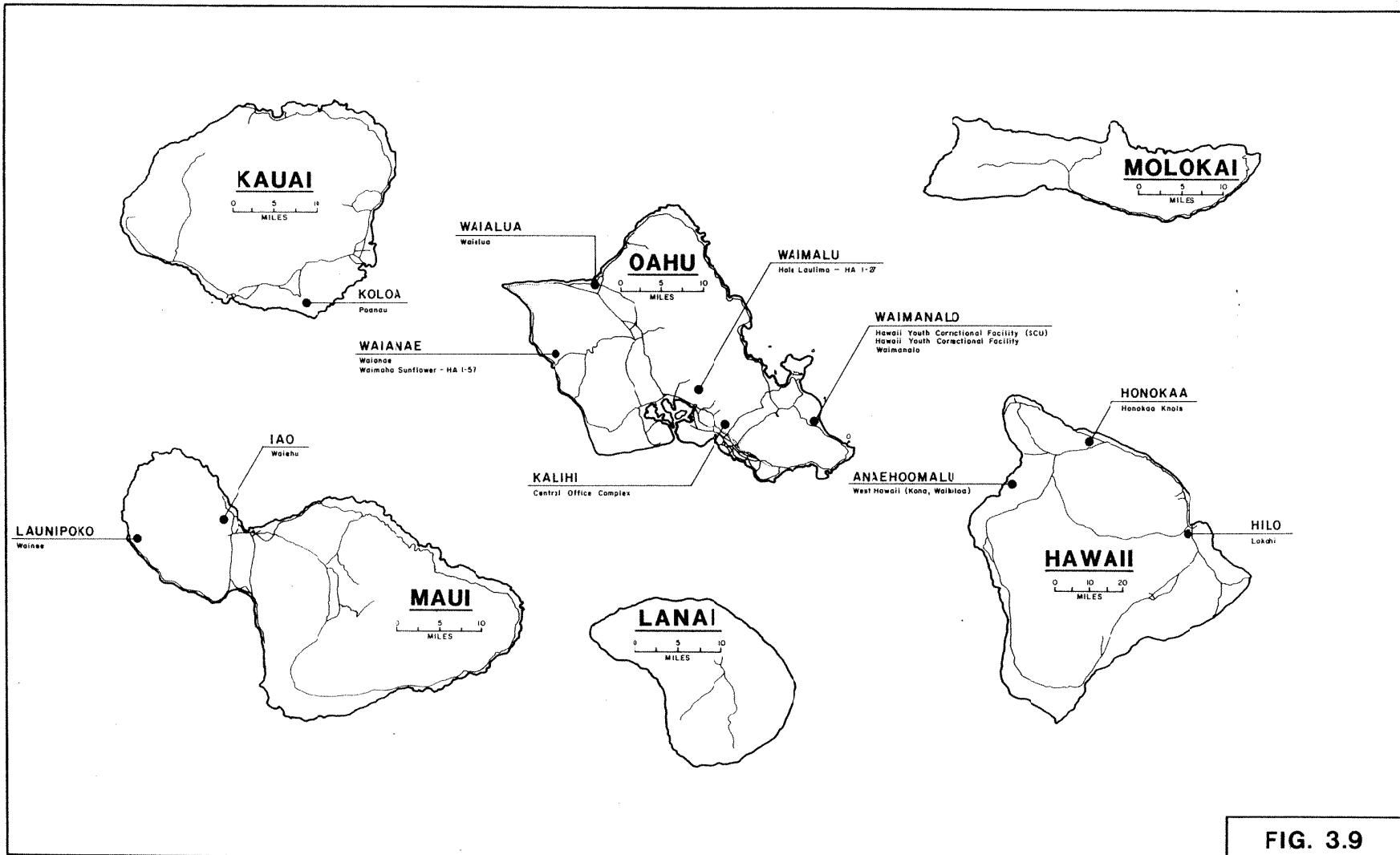


FIG. 3.8

PROPOSED PROJECTS FOR THE DEPARTMENT OF HAWAIIAN HOME LANDS



**FIG. 3.9**

**PROPOSED PROJECTS FOR THE DEPARTMENT OF HUMAN SERVICES**  
**HAWAII HOUSING AUTHORITY**

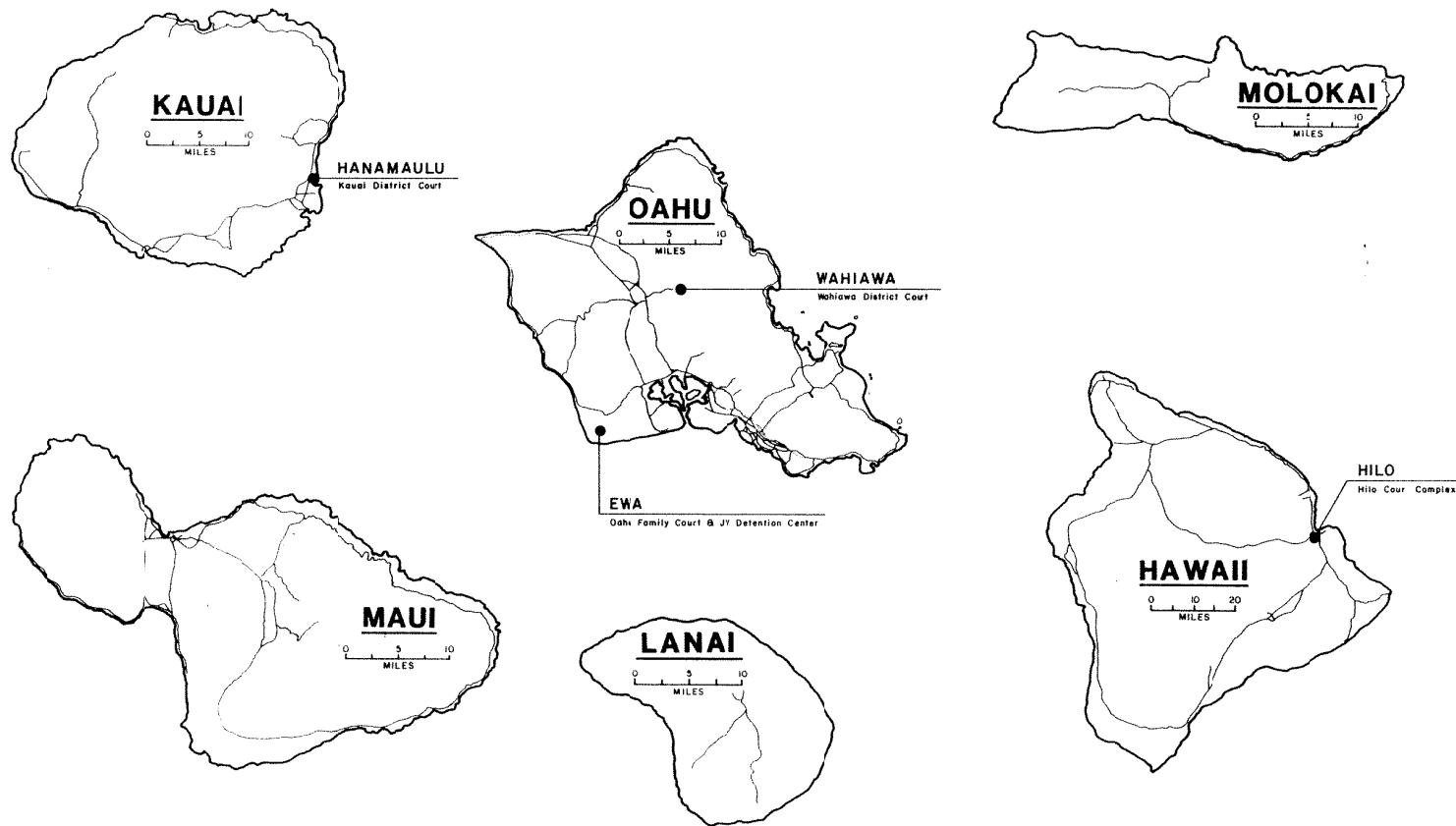


FIG. 3.10

**PROPOSED PROJECTS FOR THE DEPARTMENT OF JUDICIARY**

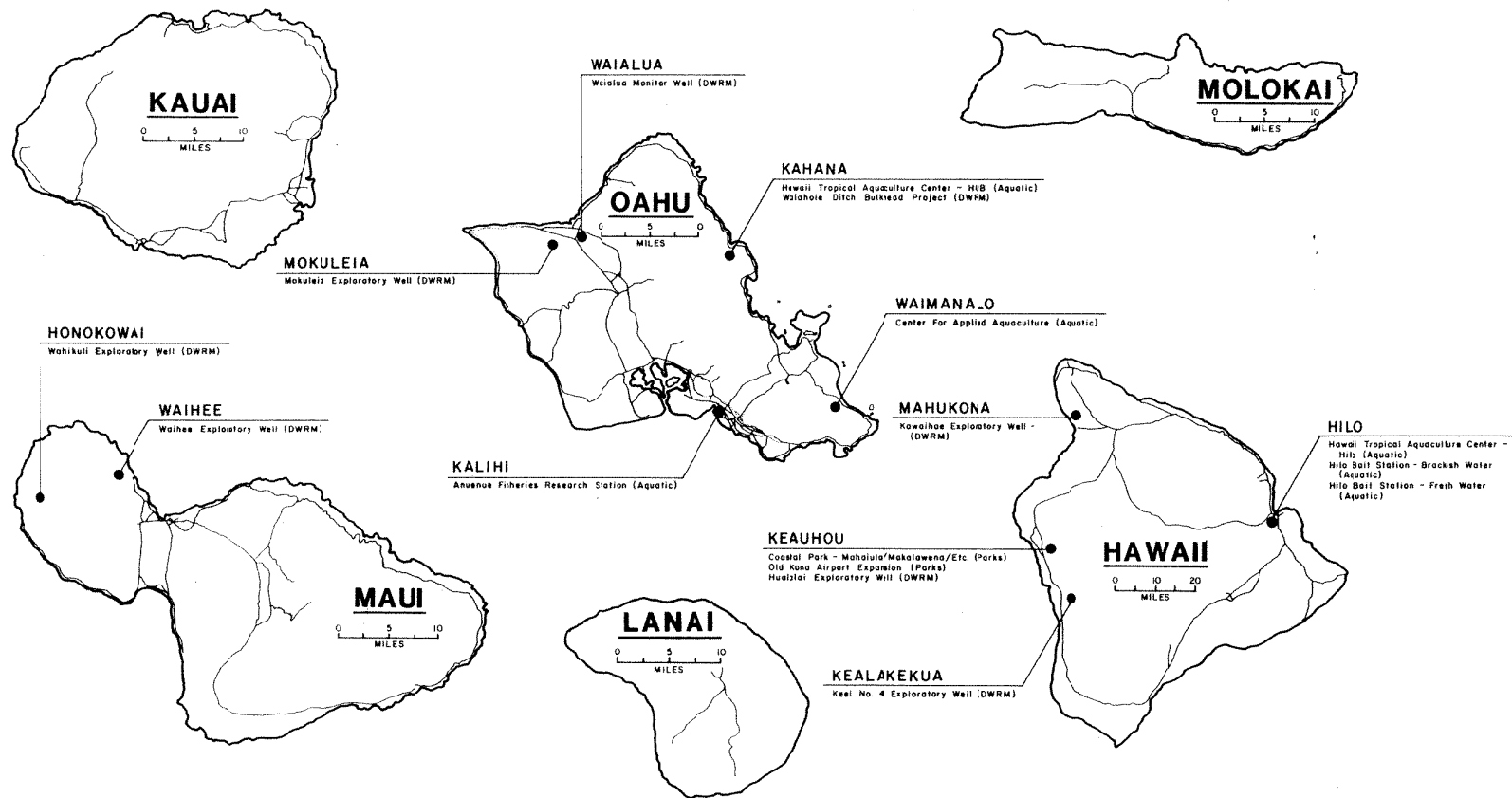


FIG. 3.11

**PROPOSED PROJECTS FOR THE DEPARTMENT OF LAND AND NATURAL RESOURCES**

### 3.3.11 Department of Public Safety

The Department of Public Safety manages the operations of the various State correctional institutions and proposes the expansion and upgrade of all its facilities. The proposed projects of the Department of Public Safety are shown in Figure 3.12.

### 3.3.12 Department of Transportation

The Department of Transportation (DOT) is responsible for all major State-owned transportation facilities including airports, harbors, and highways. The need for additional and/or expanded transportation facilities increases as resident and visitor populations continue to grow. The general location of the various new projects or proposed facilities expansions are shown in Figure 3.13.

#### Airports Division

The Airports Division oversees the operations of nine airport complexes throughout the State. No new airport installations are currently proposed, but all of the existing facilities project increased activity and facility expansions.

#### Harbors Division

The Harbors Division proposes three new harbor facilities as well as expansion of most of its existing harbor complexes. The new harbor facilities are (1) Barbers Point Harbor and (2) Keehi Lagoon Recreation Area on Oahu, and (3) Kawaihae Boat Harbor on the island of Hawaii.

#### Highways Division

Water requirements for Highways Division projects are primarily associated with landscaping of roadside or median areas of the highway facilities. The general policy of the Highways Division is to incorporate "drought tolerant" plant materials along their facilities. The intent is to select plants which can survive at the facility location without irrigation, utilizing only the natural occurring rainfall. Generally irrigation is only required to initially establish the landscaping. However, certain projects where visual impacts are important and more extensive landscaping are proposed are expected to require permanent irrigation systems.

### 3.3.13 University of Hawaii

Projects associated with the University of Hawaii System that are included in this study are primarily expansion of existing facilities of the University's Agricultural Extension

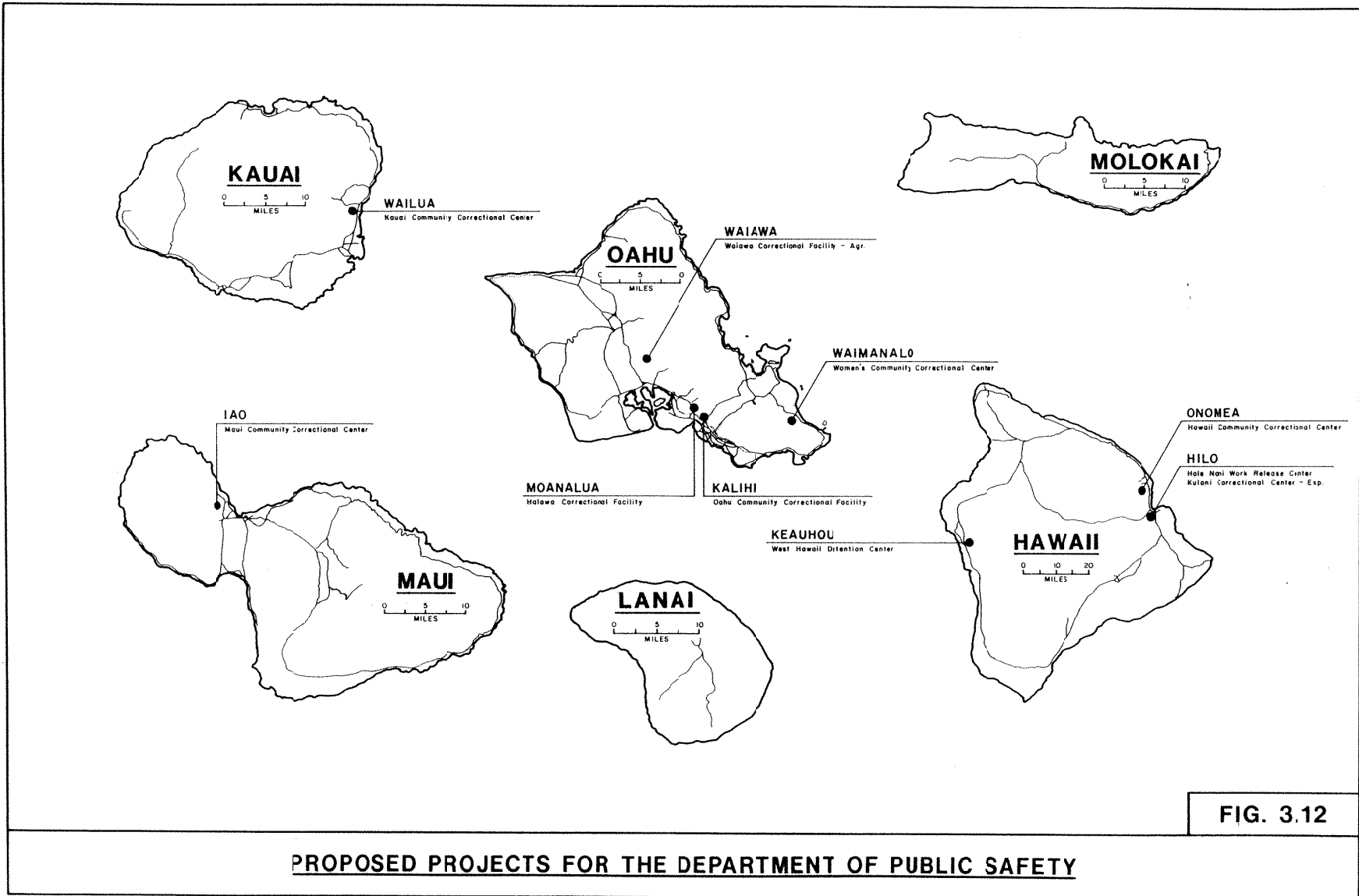


FIG. 3.12

PROPOSED PROJECTS FOR THE DEPARTMENT OF PUBLIC SAFETY



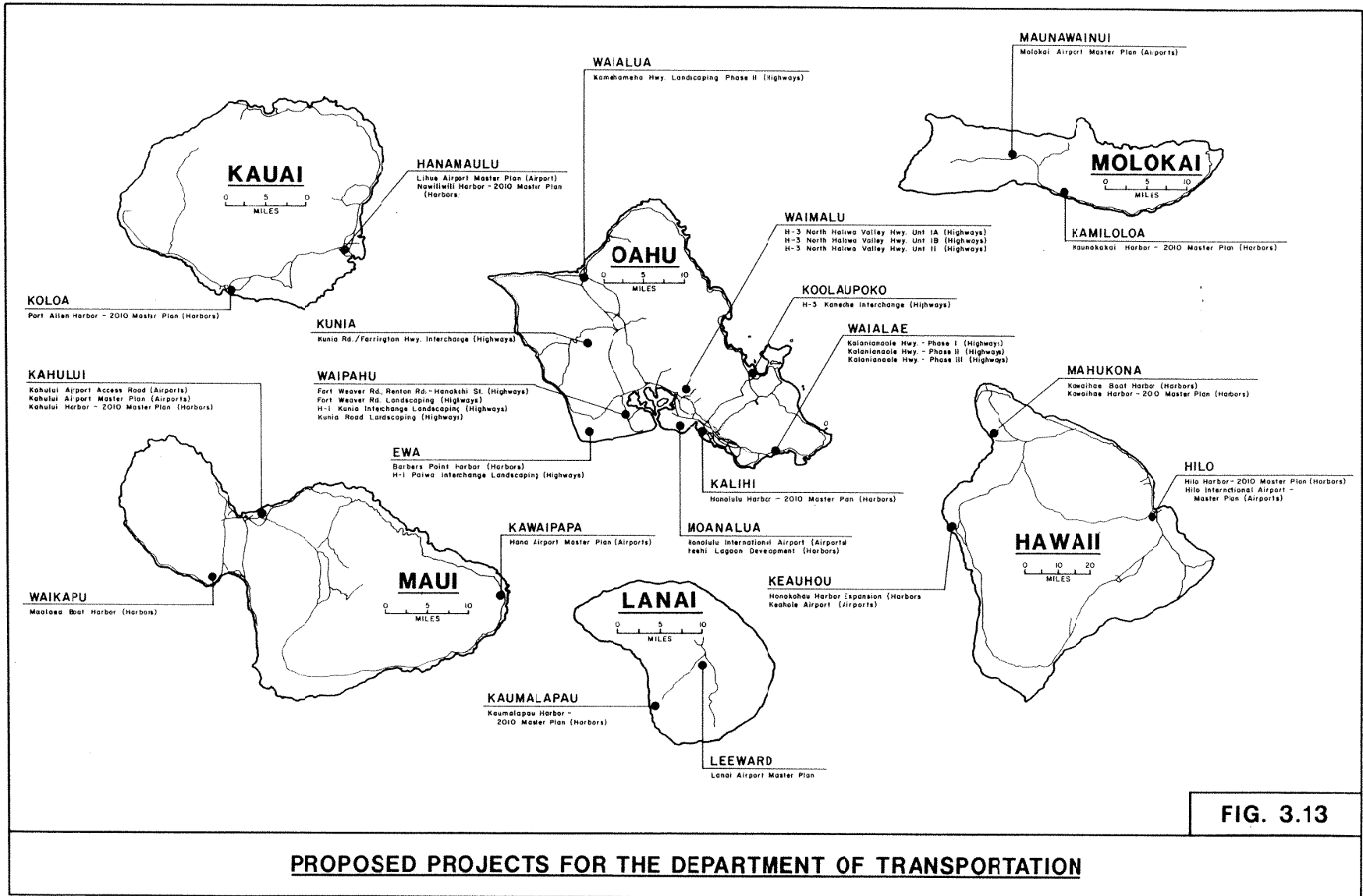


FIG. 3.13

**PROPOSED PROJECTS FOR THE DEPARTMENT OF TRANSPORTATION**

Service. The major new project to be developed by the University is the West Oahu Campus. This project is still in its early planning stages and the data presented are based on preliminary planning information. The UH projects for which data was obtained are shown in Figure 3.14.

### **3.4 SUMMARY OF PROJECTED WATER REQUIREMENTS**

#### **3.4.1 Estimating Project Demands**

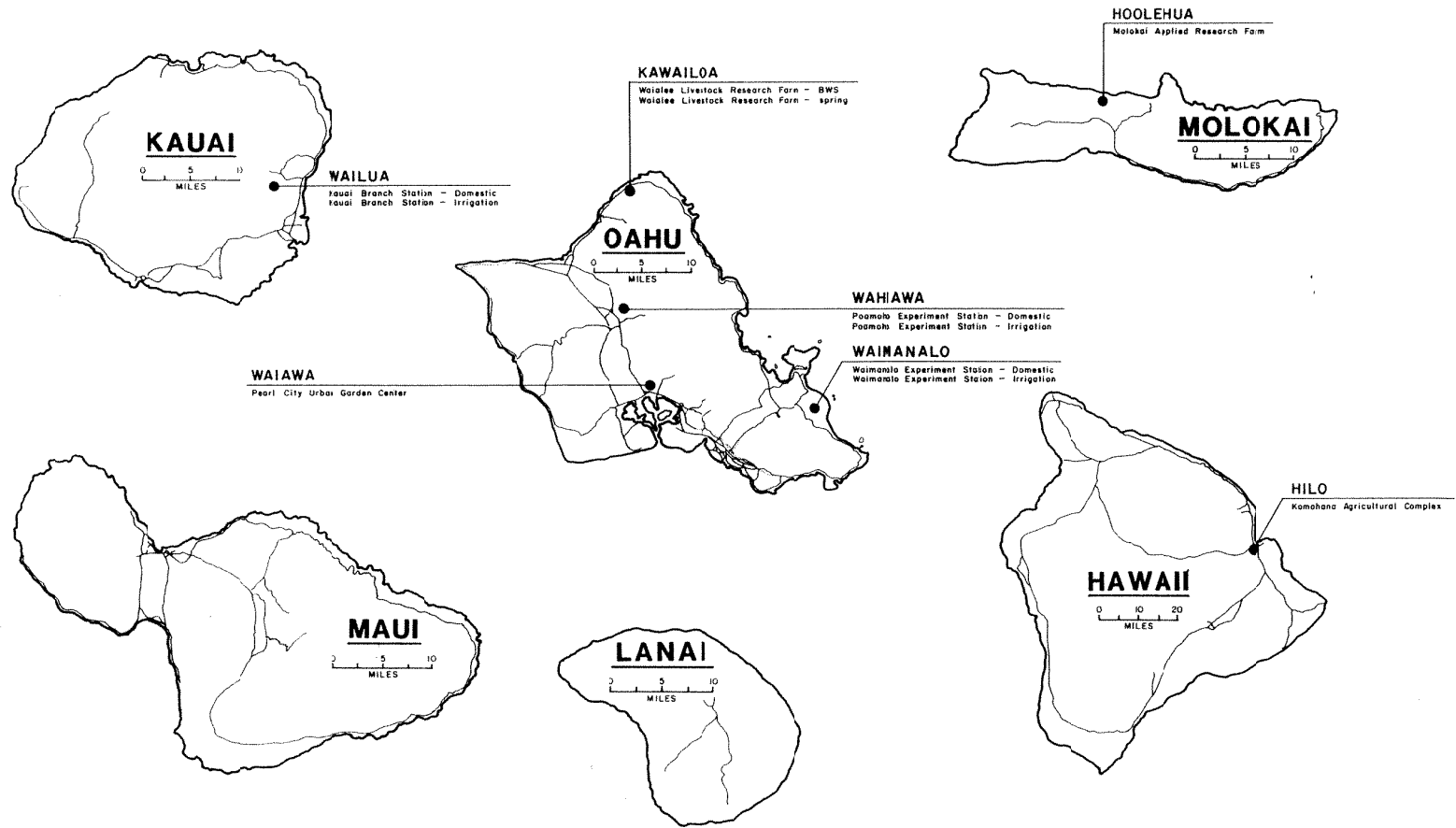
As indicated earlier, water requirements for proposed projects were generally not defined, especially when projects were in the early stages of planning. Unless specific studies were performed to determine a project's water requirements, only rough estimates can be provided. In order to generate meaningful estimates, standard water demand guidelines were used. Domestic consumption guidelines (Table 3.1) developed by the various county water departments were applied to estimate the water demand for the individual projects. The information required to compute water demands include either unit count, population estimate, or project area.

The ultimate demand used for the water demand projections was selected for each project in the following manner. If an agency determined value was provided, that figure was used as the ultimate demand. If no agency value was provided, then the ultimate demand value was computed using the Standard guidelines specified for the project's location (utilizing the County which would have jurisdiction over the specific project).

The rationale used to support this procedure is that since most state projects will be serviced by the Counties' water systems, the computation of water demand should be consistent with their accepted planning methods. Water demand estimates derived in this study should be considered as rough estimates based on the best available information and should be adjusted as more detailed information is developed as the specific projects become more well defined.

#### **3.4.2 Compilation of Water Demand Estimates**

The ultimate demand values are summarized in Appendices E and F. The projects are grouped by Department in Appendix E and by Hydrographic areas in Appendix F. Also included in Appendix G are the listings of projects requiring irrigation water, thus identifying projects which may utilize water of less than potable quality.



**NOTE:**  
 U of H - West Oahu Campus (Planning process beginning)

**FIG. 3.14**

**PROPOSED PROJECTS FOR THE UNIVERSITY OF HAWAII**

**DOMESTIC CONSUMPTION GUIDELINE**  
**AVERAGE DAILY DEMAND\***

<b><u>ZONE</u></b>	<b><u>HAWAII</u></b>	<b><u>KAUAI</u></b>	<b><u>MAUI</u></b>	<b><u>OAHU</u></b>
<b>RESIDENTIAL:</b>				
Single Family or Duplex	400 gal/unit	500 gal/unit	600 gal/unit or 3000 gal/acre	500 gal/unit or 2500 gal/acre
Multi-Family Lcw Rise	400 gal/unit	350 gal/unit	560 gal/unit or 5000 gal/acre	400 gal/unit or 4000 gal/acre
Multi-Family High Rise	400 gal/unit	350 gal/unit	560 gal/unit	300 gal/unit
<b>COMMERCIAL:</b>				
Commercial/Industry Mix	3000 gal/acre --	3000 gal/acre 500 gal/acre	6000 gal/acre 140 gal/1000 sf	3000 gal/acre 100 gal/1000 sf
Commercial/Residential Mix	--	3000 gal/acre	140 gal/1000 sf	120 gal/1000 sf
<b>RESORT (To include hotel for Maui only)</b>	400 gal/unit	350 gal/unit	350 gal/unit or 17000 gal/acre	350 gal/unit or 4000 gal/acre
<b>LIGHT INDUSTRY:</b>	4000 gal/acre	4000 gal/acre	6000 gal/acre	4000 gal/acre
<b>SCHOOLS, PARKS:</b>	4000 gal/acre or 60 gal/student	2500 gal/acre plus 20 gal/student	1700 gal/acre or 60 gal/student	4000 gal/acre or 60 gal/student
<b>HOSPITAL:</b>			1800 gal/acre	
<b>AGRICULTURAL:</b>			5000 gal/acre	

\* Where two or more figures are listed for the same zoning, the daily demand resulting in higher consumption use shall govern the design unless specified otherwise.

**SOURCE:** "WATER SYSTEM STANDARDS", County of Kauai DOW, C&C of Honolulu BWS, County of Maui DWS, and County of Hawaii DWS, Volume I, 1985.

**TABLE 3.1 - COUNTIES' GUIDELINES FOR WATER CONSUMPTION**

## **SECTION 4 - PROPOSED STATE WATER PROJECTS DEVELOPMENT PLAN**

### **4.1 GENERAL**

The previous sections list the various state projects, existing and proposed, with their existing and projected water demands. The vast majority of these projects are, and will continue to be, serviced by County water systems. Therefore, development funding for water for these State projects will primarily consist of a proportional cost for new source development and distribution system expansions to County systems.

The Division of Water Resources Management (DWRM) of the Department of Land and Natural Resources (DLNR) is the State agency that is charged with water source exploration. In most cases, DWRM will dedicate tested sources, and sometimes transmission systems, to the County water agencies for inclusion into the County systems.

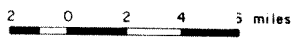
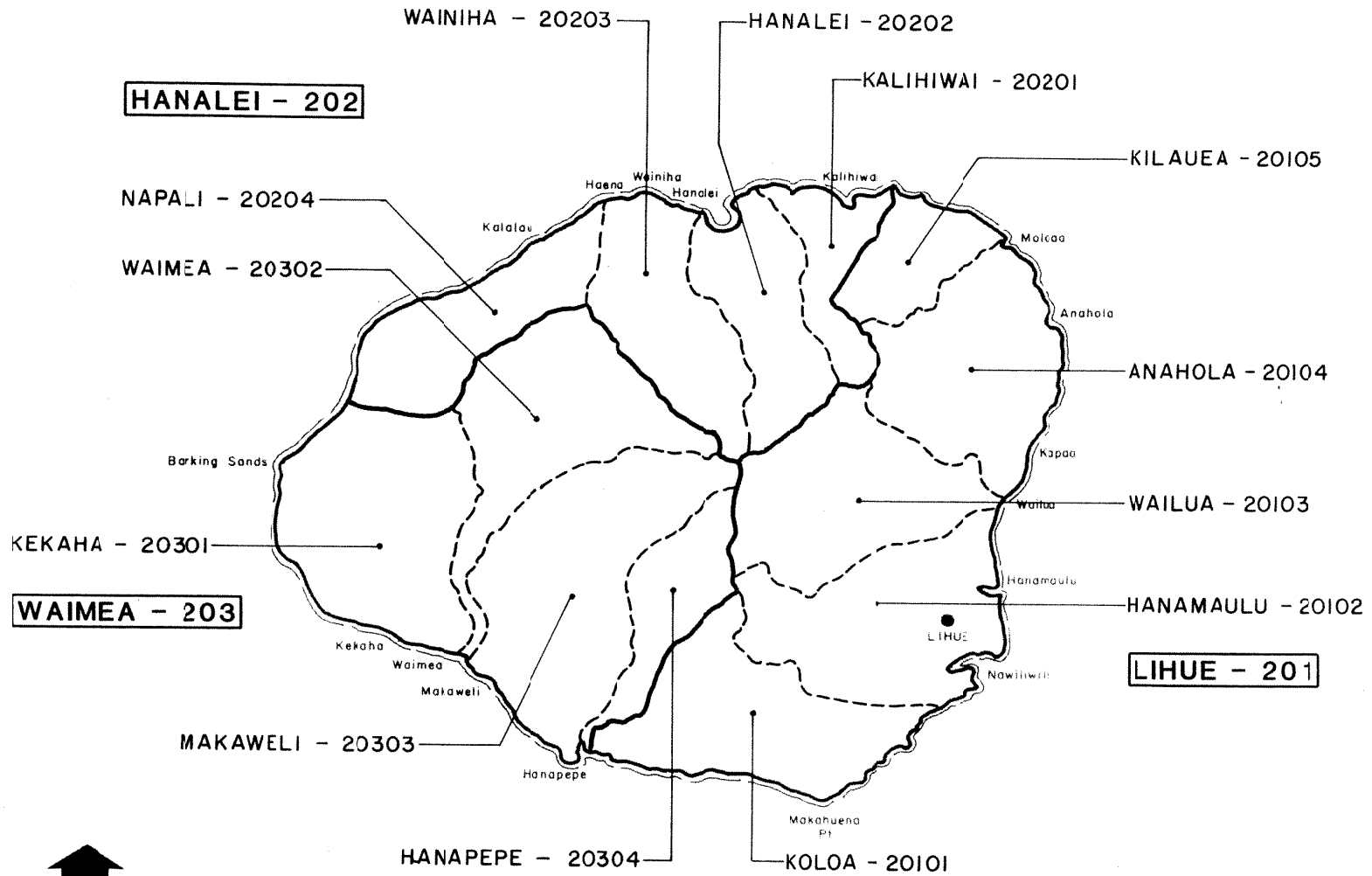
#### **4.1.1 Hydrologic Units**

As recommended by the State Water Code, the geographic boundaries used for the development of regional plans coincide with the hydrologic units established in the Water Resources Protection Plan. For illustrative purposes, Figures 4.1 through 4.6 show the general boundaries of the various hydrologic sectors and aquifer systems established for each of the six major island in the Water Resources Protection Plan.

### **4.2 ASSESSMENT OF REGIONAL WATER NEEDS**

#### **4.2.1 Regional Comparisons**

Appendix F lists all the state projects by hydrologic unit. Figure 4.7 illustrates the projected water demand totals for proposed State projects for each hydrologic sector, statewide for the 20-year planning period (shown in five year increments). Sectors 201 (Lihue), 301 (Honolulu), 302 (Pearl Harbor), 306 (Windward Oahu), 402 (Central Molokai), 404 (Northeast Molokai) and 803 (West Mauna Kea) show projected State project water demand totals equal to or exceeding 10 MGD by the Year 2010. More detailed inspection and analyses of the compiled data revealed that many of these areas will require substantial amounts of irrigation water, particularly on the island of Molokai. Figures 4.8 and 4.9 show the breakdown of irrigation and non-irrigation water demands

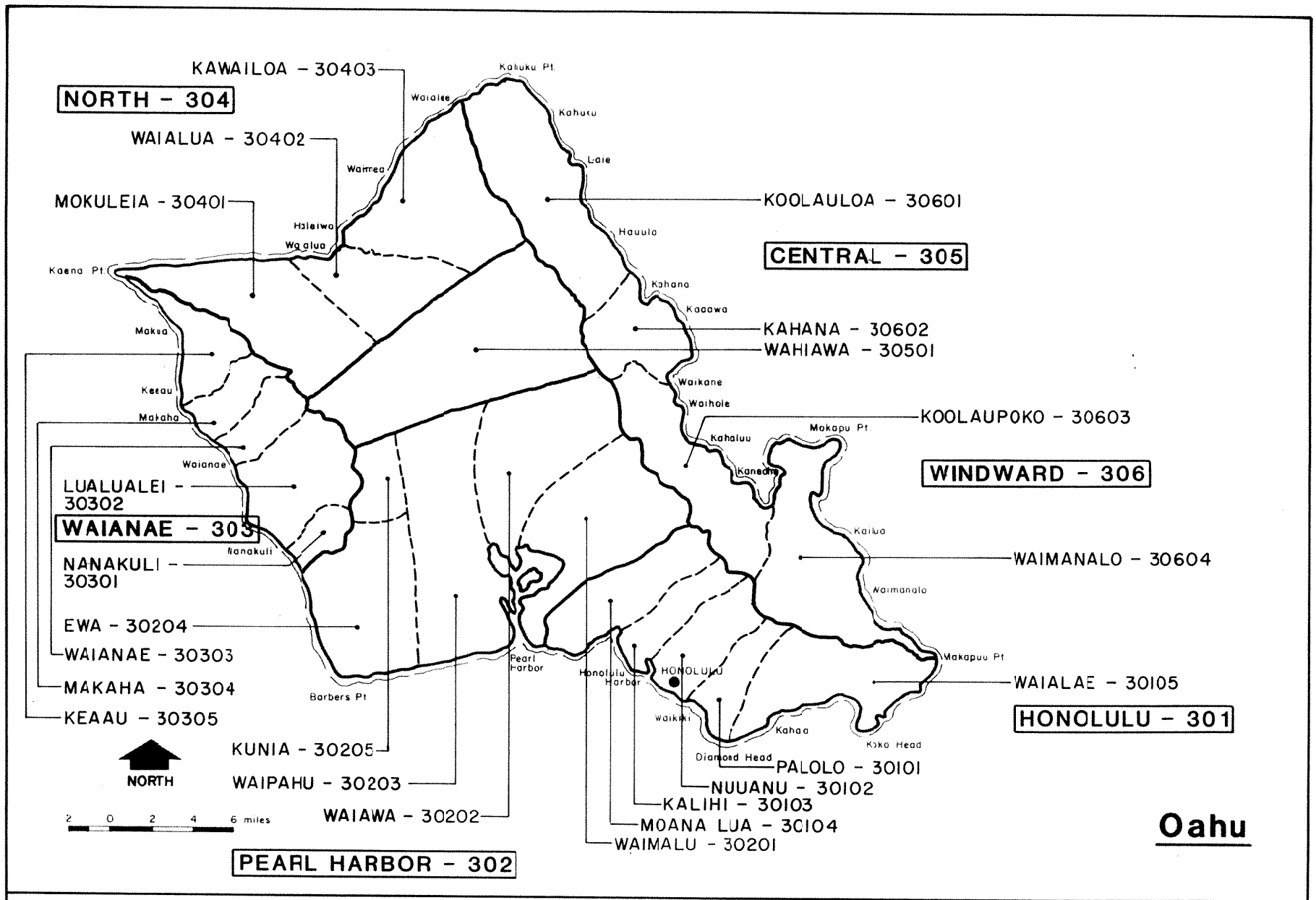


**Kauai**

HYDROLOGIC UNITS - ISLAND OF KAUAI

FIG. 4.1

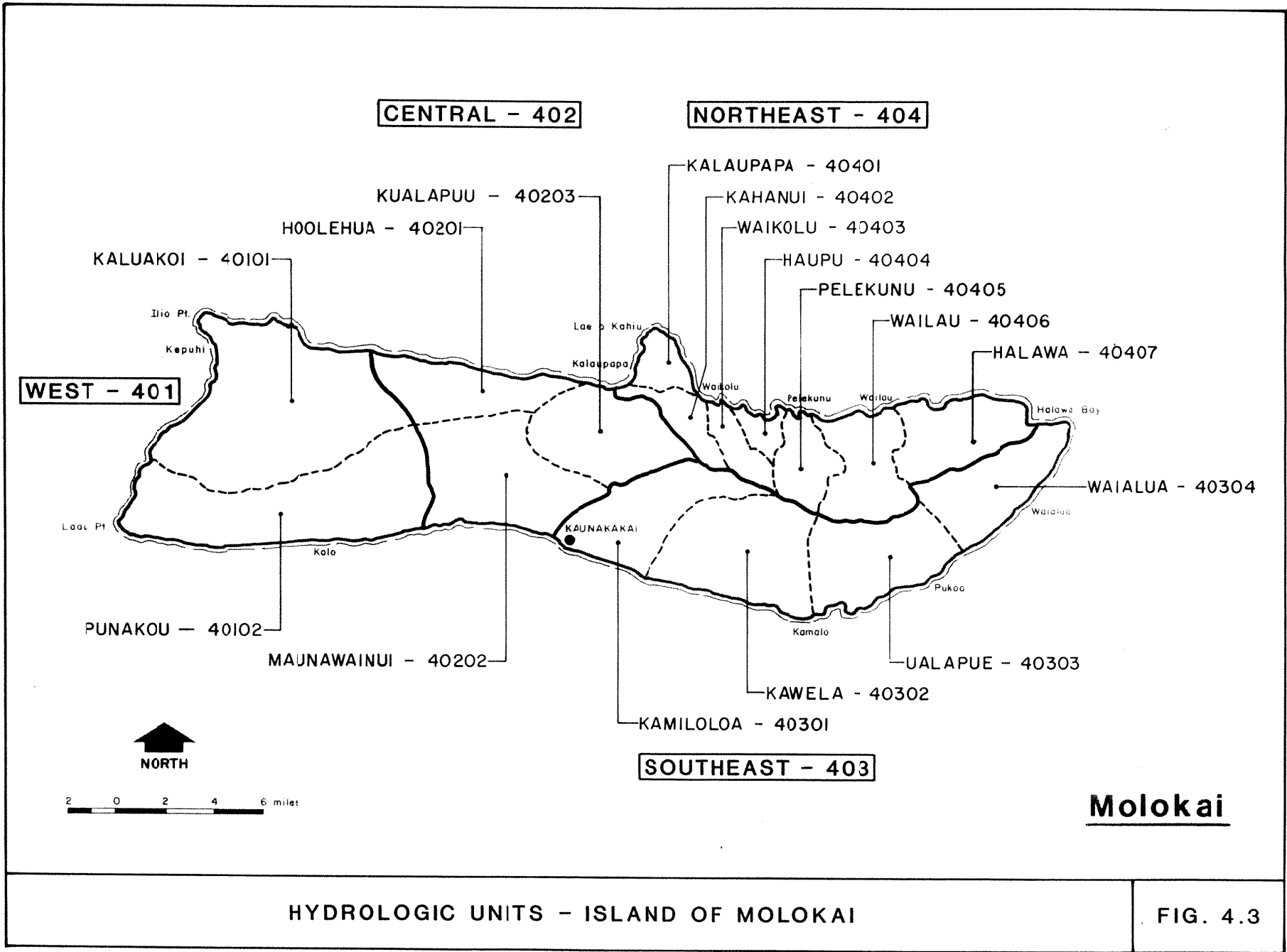
4 - 3



HYDROLOGIC UNITS - ISLAND OF OAHU

FIG. 4.2

4-4



HYDROLOGIC UNITS - ISLAND OF MOLOKAI

FIG. 4.3



**KAA - 503**

**MAHANA - 502**

**CENTRAL - 501**

**KANAO - 504**

PAOMA - 50203

MAUNALEI - 50202

HONOPU - 50301

WINDWARD - 50101

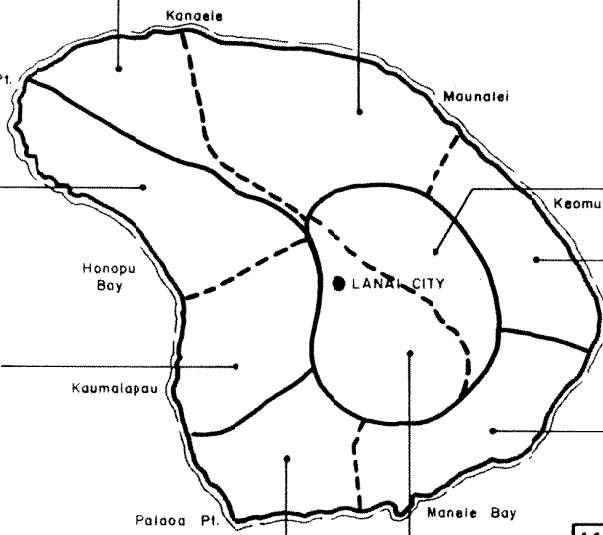
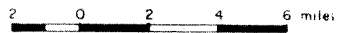
KAUMALAPAU - 50302

HAUOLA - 50201

MANELE - 50402

LEALIA - 50401

LEEWARD - 50102

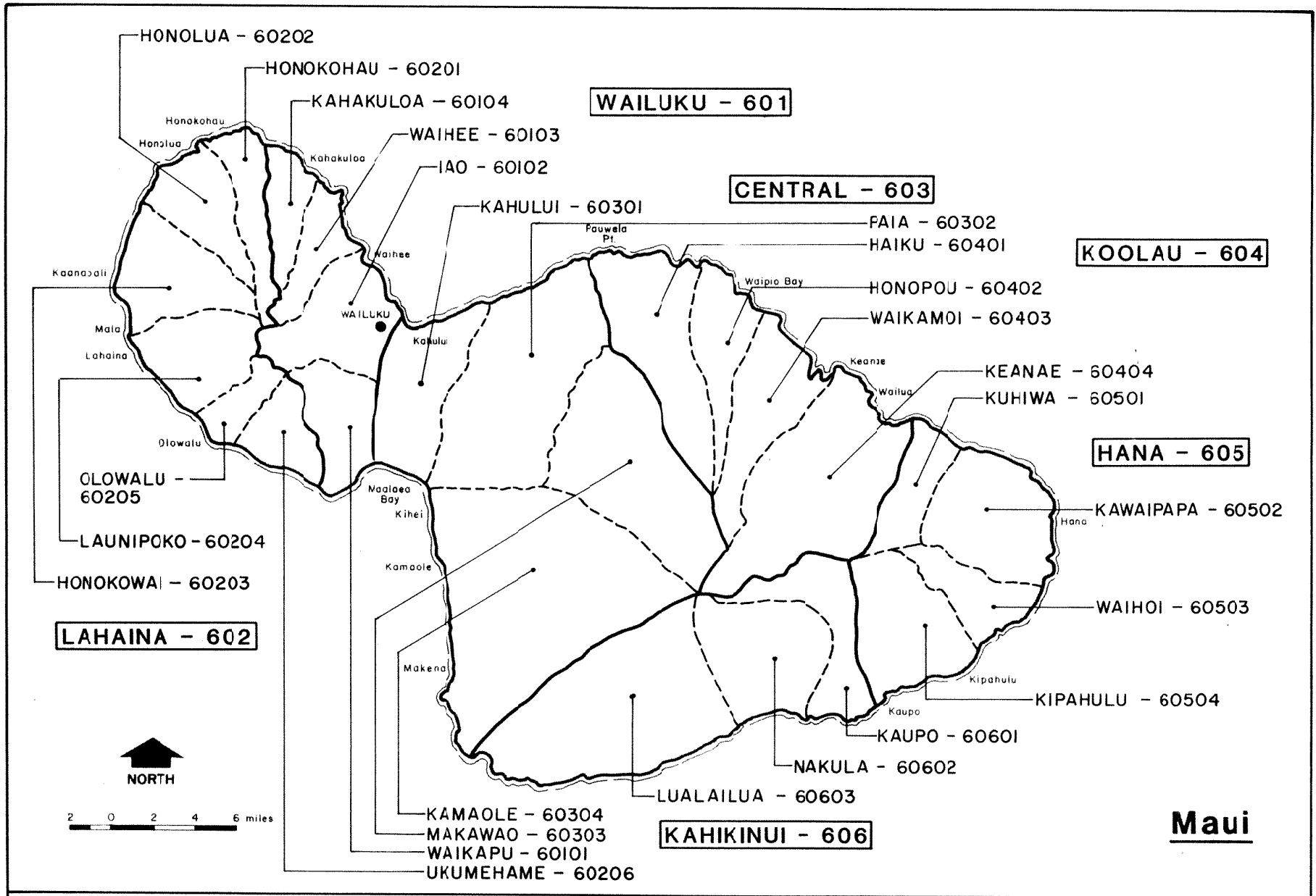


**Lanai**

HYDROLOGIC UNITS - ISLAND OF LANAI

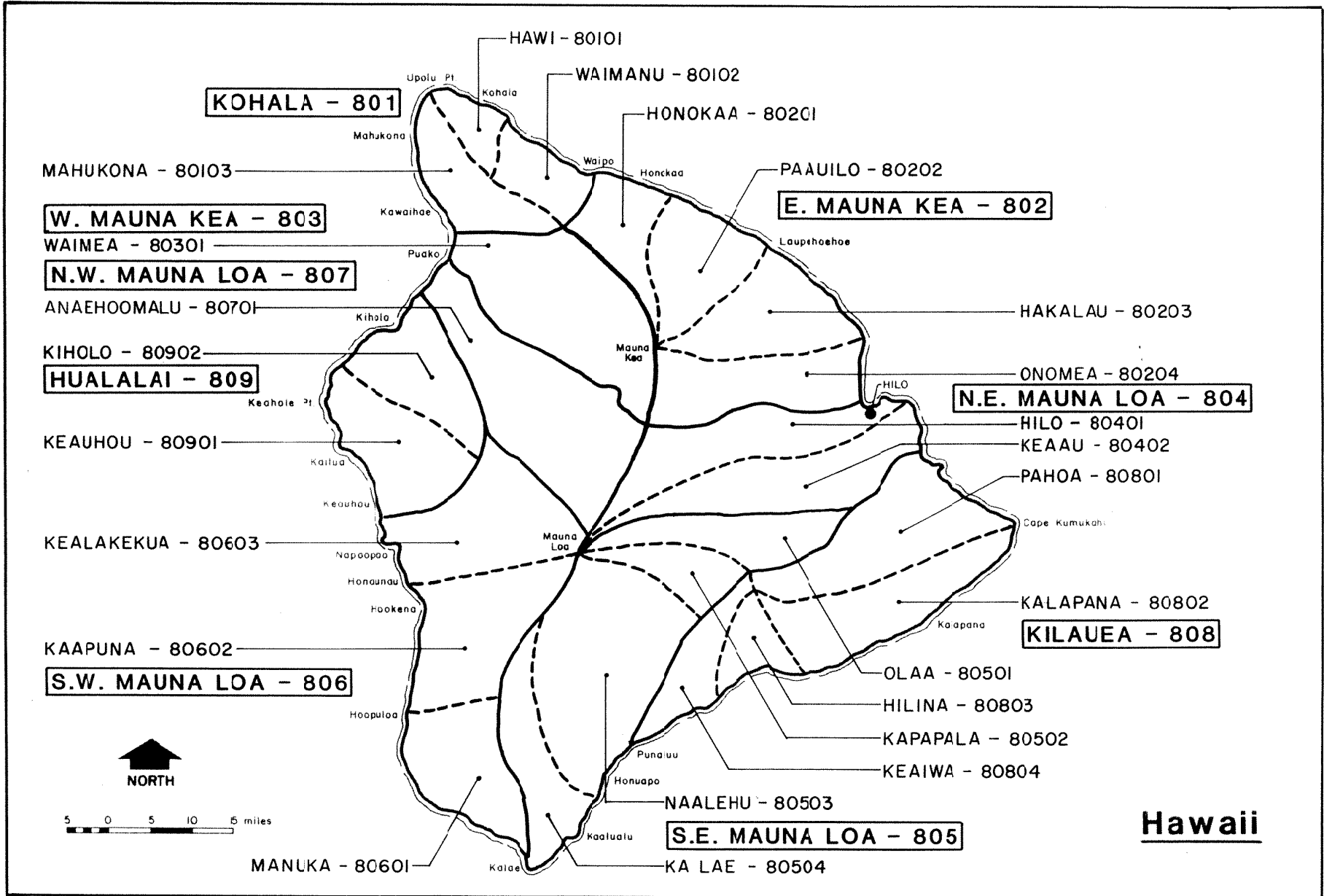
FIG. 4.4

4 - 6



HYDROLOGIC UNITS - ISLAND OF MAUI

FIG. 4.5

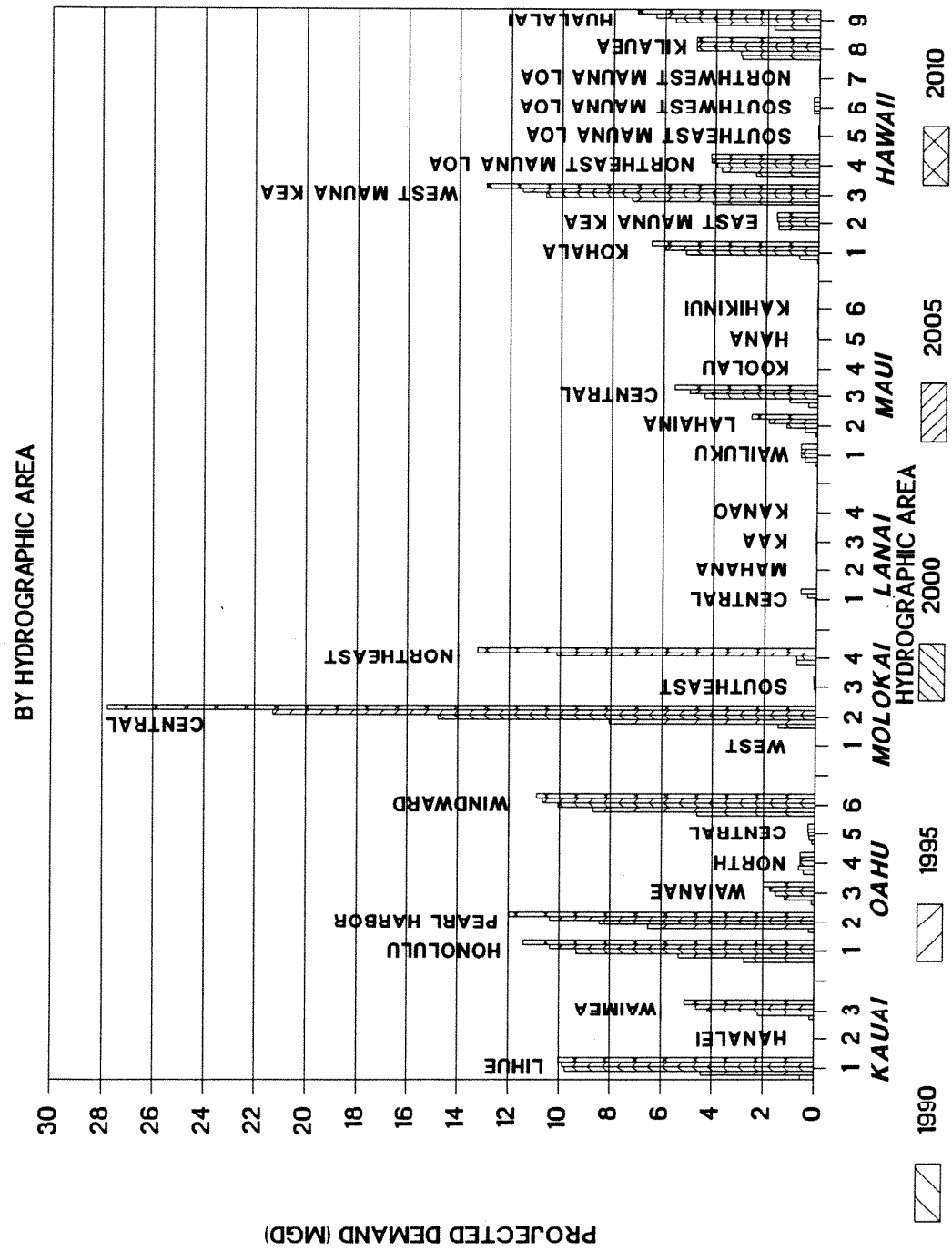


HYDROLOGIC UNITS - ISLAND OF HAWAII

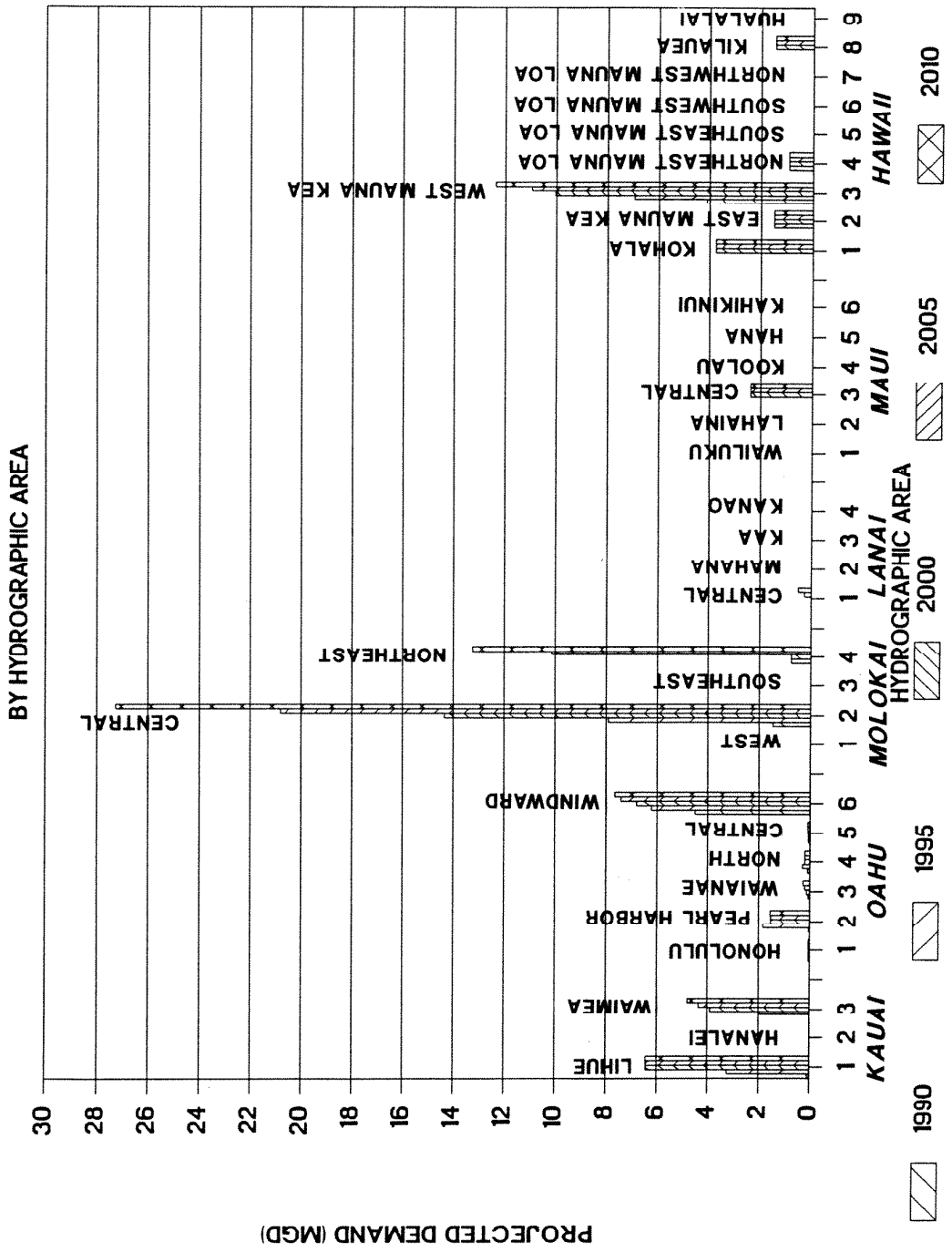
FIG. 4.6

**Hawaii**

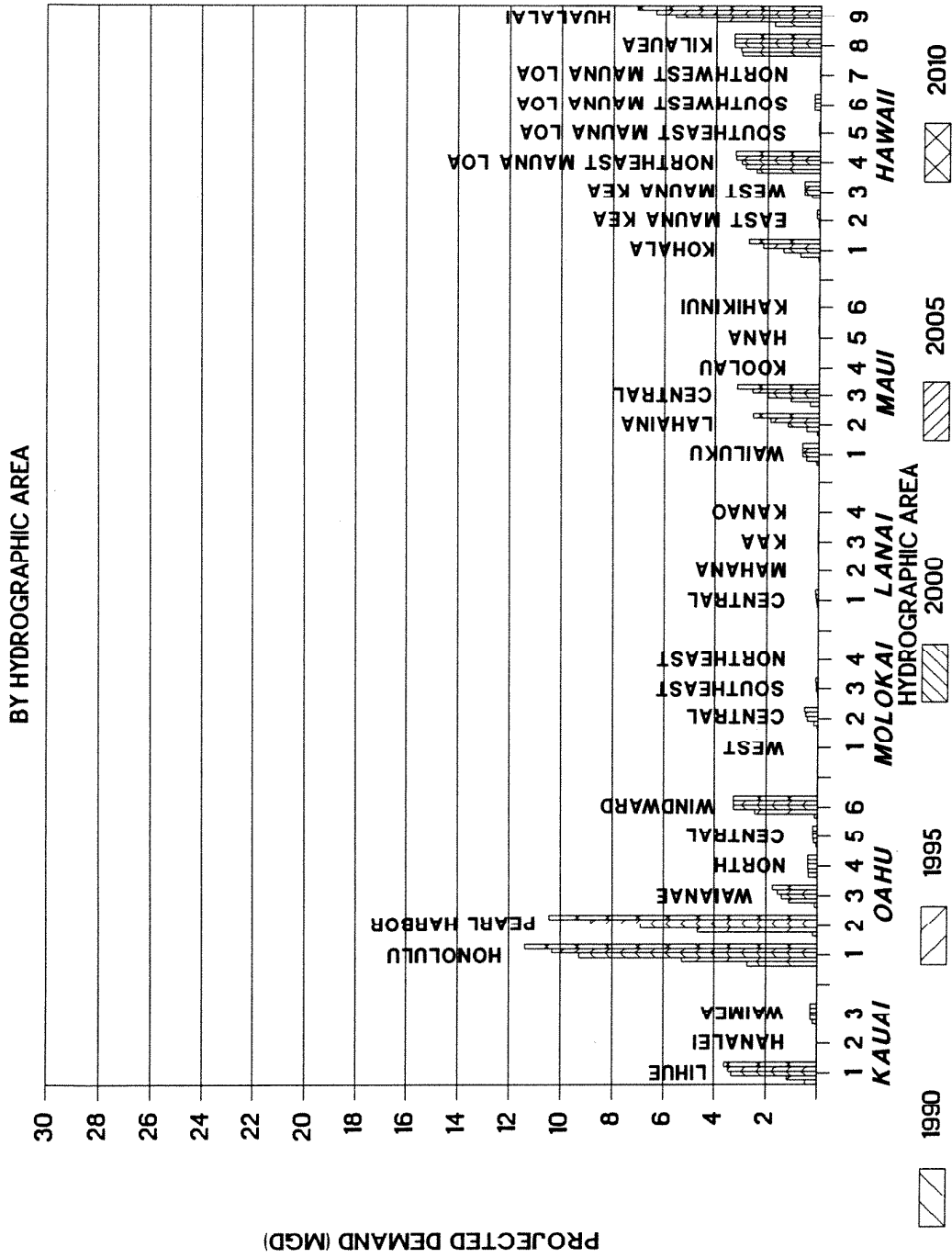
**FIGURE 4-7**  
**PROJECTED WATER DEMANDS**  
**BY HYDROGRAPHIC AREA**



**FIGURE 4-8**  
**PROJECTED IRRIGATION DEMANDS**  
**BY HYDROGRAPHIC AREA**



**FIGURE 4-9**  
**PROJECTED NON-IRRIGATION DEMANDS**  
 BY HYDROGRAPHIC AREA



for the various hydrographic areas. Non-irrigation water is generally assumed to be potable quality water and is projected to be in critical demand on the rapidly urbanizing areas on Oahu (Honolulu and Pearl Harbor) and West Hawaii.

#### 4.2.2 County of Kauai

The Lihue sector exhibits the highest demand on the island of Kauai. The proposed Moloaa Agricultural Park (3.8 MGD) is by far the largest project. Other major projects are the Wailua Agricultural Park (1.0 MGD), the Wailua Mauka Housing (0.96 MGD) and the Lihue Airport Masterplan (0.72 MGD).

#### 4.2.3 City and County of Honolulu

The Pearl Harbor and Honolulu sectors exhibit the highest demands. Major projects are the Honolulu International Airport (3.0 MGD), Keehi Lagoon Development (1.08 MGD), Waipahu Livestock Agricultural Park (3.0 MGD), Kapolei Village (2.93 MGD), Kahuku Agricultural Park (2.0 MGD). The airport plan is an expansion, with existing demand being 2.0 MGD. The other projects are proposed new developments.

#### 4.2.4 County of Maui

The island of Molokai with its extensive Hawaiian Home Lands is projected to have substantial needs for water, primarily irrigation water, to sustain the agricultural lots proposed for the island's Central hydrologic sector. The ultimate projected demand (Year 2010) for the Central Sector of 27.8 MGD is the highest in the State. It is anticipated that much of this water must be developed through the Molokai Irrigation System (MIS).

For the island of Maui, projected water demands by the Department of Hawaiian Home Lands in the Keokea area are the most significant. A projected ultimate demand of 5.7 MGD has been compiled for Maui's Central sector. The Lahaina sector (2.5 MGD) is the only other sector projecting a demand greater than 1.0 MGD. The major project is the Lahaina Master Plan housing project (4800 units). The projected demand of this project is 2.2 MGD.

#### 4.2.5 County of Hawaii

The N.W. Mauna Kea sector (13.0 MGD), Hualalai (7.1 MGD), Kohala (6.5 MGD), Kilauea (4.8 MGD) and N.E. Mauna Loa (4.2 MGD) show major demands. The largest water-related projects on the island involve the Waimea Irrigation System, directed at improving the capability of the system to provide irrigation water for the islands agricultural developments. The major agricultural projects are agricultural parks: North Kohala Farm Lots (3.75 MGD); Pahoia Agricultural Park, Phases I & II (3.0 MGD);

Panaewa Agricultural Park (2.3 MGD). The largest non-agricultural demand of 3.5 MGD is from the HFDC's Kealakehe Masterplan housing project proposed in the Hualalai Sector (901). The DHHL's Kawaihae Master Plan (2.1 MGD) is another significant mixed use project.

### 4.3 PROPOSED IMPROVEMENT PROGRAM GUIDELINES

#### 4.3.1 Agricultural Parks and Agricultural (Farm Lot) Subdivisions

Major project demands have been generated by proposed new agricultural parks and park expansions to be developed by the Department of Agriculture (DOA) as well as agricultural homestead lots proposed by the Department of Hawaiian Home Lands (DHHL). The demand for irrigation water statewide is projected to be significant as shown in Figure 4.10 and listed in Table 4.1. The overall demand for irrigation water for State projects amounts to 45 to 60 percent of the total projected demand for water resources.

The proposed agricultural projects may be developed with exclusive water systems owned and operated by the State. If dedicated for agricultural uses only, these may be served with non-potable water thus requiring lower quality sources and/or minimal treatment. The DOA and DHHL will investigate water service alternatives for these parks and projects as part of their planning and design process.

If connected to a County system the State will be expected to contribute its proportional share for new source transmission and distribution system development.

#### 4.3.2 Major State Housing Projects

The State, through the Housing Finance and Development Corporation (HFDC), is developing major housing projects on each island. These include:

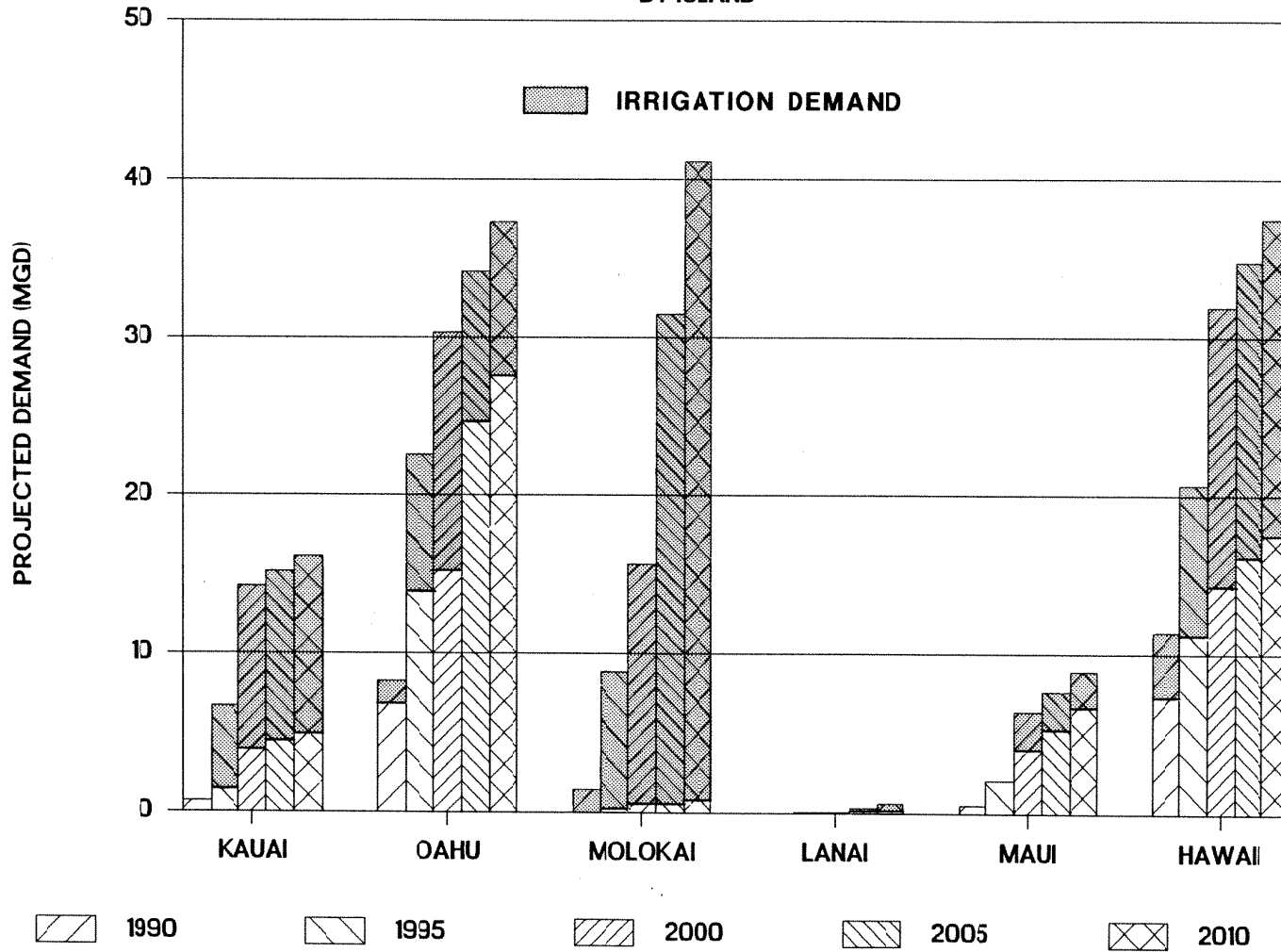
<u>Project Name</u>	<u>Sector</u>	<u>Projected Demand (MGD)</u>
Kauai Master Plan	201	1.00
Kapolei Villages	302	2.75
Lahaina Master Plan Housing	602	2.17
Kealakehe Master Plan	809	3.50

These projects will be serviced by County systems. As the Counties develop the specific improvement requirements and attendant costs, the State will be expected to contribute its proportional share. The State share will be negotiated as each project's schedule is



**FIGURE 4-10**  
**PROJECTED WATER DEMANDS**

BY ISLAND



## TABLE 4-1

SUMMARY OF PROJECTED WATER DEMANDS FOR PROPOSED STATE PROJECTS (MILLION GALLONS PER DAY)

ISLAND	1990			1995			2000			2005			2010		
	POTABLE	IRRIG	TOTAL	POTABLE	IRRIG	TOTAL	POTABLE	IRRIG	TOTAL	POTABLE	IRRIG	TOTAL	POTABLE	IRRIG	TOTAL
KAUAI	0.6142	0.0912	0.7054	1.4408	5.1930	6.6338	3.9025	10.3140	14.2165	4.3815	10.7670	15.1485	4.8778	11.2200	16.0978
OAHU	3.4941	4.7455	8.2396	14.0680	8.5019	22.5699	21.5576	8.7635	30.3211	24.7132	9.4358	34.1490	27.5424	9.7583	37.3007
MOLOKAI	0.0147	1.4504	1.4651	0.1639	8.6532	8.8171	0.5008	15.1140	15.6148	0.5520	30.9370	31.4890	0.6050	40.5100	41.1150
LANAI	0.0121	0.0000	0.0121	0.0685	0.0000	0.0685	0.0857	0.0000	0.0857	0.0978	0.2500	0.3478	0.1200	0.5000	0.6200
MAUI	0.4973	0.0000	0.4973	2.0889	0.0000	2.0889	3.9586	2.4000	6.3586	5.2323	2.4000	7.6323	6.5052	2.4000	8.9052
HAWAII	7.2616	4.1150	11.3766	11.2371	9.4050	20.6421	14.2220	17.7100	31.9320	16.1243	18.6175	34.7418	17.4087	20.0250	37.4337
<b>TOTAL</b>	<b>11.8940</b>	<b>10.4021</b>	<b>22.2961</b>	<b>29.0672</b>	<b>31.7531</b>	<b>60.8203</b>	<b>44.2272</b>	<b>54.3015</b>	<b>98.5287</b>	<b>51.1011</b>	<b>72.4073</b>	<b>123.5084</b>	<b>57.0591</b>	<b>84.4133</b>	<b>141.4724</b>

coordinated with the proposed County system improvements to accommodate both the State and other projects. Requirements for the State Projects have been included in each County Water Use and Development (WUDP).

#### 4.3.3 Other Projects

The numerous other State projects will, in most cases, be serviced by County systems. State connection cost might be separately negotiated or charged according to each County's facilities development charge. Requirements for these State Projects have been incorporated in each County's WUDP.

# **APPENDIX A**

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**LISTING OF EXISTING REGISTERED STATE STREAM DIVERSIONS**

HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXIST DIVERSION (MGD)	REMARKS
=====				
** DEPARTMENT OF AGRICULTURE				
* ISLAND OF HAWAII				
UPPER HAMAKUA DITCH	STATE DOA	IRRIGATION	1.05	TMK 6-04-03:15 WAIMEA IRRIGATION SYSTEM
KAWAINUI STREAM	STATE DOA	IRRIGATION	9.24	TMK 6-3-04 WAIMEA IRRIGATION SYSTEM
ALAKAHI STREAM	STATE DOA	IRRIGATION	4.45	TMK 6-3-04 WAIMEA IRRIGATION SYSTEM - UPPER HAMAKUA DITCH
KAWAIKI STREAM	STATE DOA	IRRIGATION	2.78	TMK 6-03-04 WAIMEA IRRIGATION SYSTEM - UPPER HAMAKUA DITCH
UPPER HAMAKUA DITCH - 60 MG RESERVOIR	STATE DOA	IRRIGATION	23.00	TMK 6-4-02:125 WAIMEA IRRIGATION SYSTEM
UPPER HAMAKUA DITCH - WAIMEA INTAKE	STATE DOA	IRRIGATION	*	TMK 6-03-04 WAIMEA IRRIGATION SYSTEM
UPPER HAMAKUA DITCH - KOIAWE INTAKE	STATE DOA	IRRIGATION	*	TMK 6-03-04 WAIMEA IRRIGATION SYSTEM
* ISLAND OF OAHU				
MAUNAWILI DITCH - INTAKE #1	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM
AINONI STREAM	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE #10
PIKOAKEA SPRING	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE #1
KAPAKAHI SPRING	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXIST DIVERSION (MGD)	REMARKS
MAUNAWILI STREAM	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
OMAO STREAM	STATE DOA	IRRIGATION	*	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE

HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXIST DIVERSION (MGD)	REMARKS
=====				
** DEPARTMENT OF HAWAIIAN HOME LANDS				
* ISLAND OF HAWAII				
HAAO SPRING/MOUNTAIN HOUSE TUNNEL	COUNTY DWS	MIXED	*	TMK 9-3-01 SUPPLIES KAMAOKA-PUUEO WATER SYSTEM
WAIPAHOEHOE STREAM	KAHUA RANCH	LIVESTOCK	*	TMK 3-6-1:01 USED AT SOURCE
WAIMANU STREAM	STATE	IRRIGATION	*	TMK 3-4-9:13
KILOHANA STREAM	KAHUA RANCH	LIVESTOCK	*	TMK 3-6-1:01 USED AT SOURCE
KEAWEWAI STREAM	KAHUA RANCH	LIVESTOCK	*	TMK 3-6-1:01 USED AT SOURCE
KAWAINUI STREAM	STATE DLNR	IRRIGATION	*	TMK 3-6-3 SOURCE FOR HAMAKUA DITCH
KAWAIKI STREAM	STATE DLNR	IRRIGATION	*	TMK 3-6-3 SOURCE FOR HAMAKUA DITCH
KAHAKAHAU STREAM	PARKER RANCH	LIVESTOCK	*	TMK 3-6-2:01 USED AT SOURCE
HONOKANE NUI	STATE DLNR	IRRIGATION	7.50	TMK 3-6-1:01
ALAKAHI STREAM	STATE DLNR	IRRIGATION	*	TMK 3-6-3 SOURCE FOR HAMAKUA DITCH
MAUNA KEA ACCESS ROAD	PARKER RANCH	LIVESTOCK	*	TMK 3-3-8:01 INTERMITTENT FLOWS
* ISLAND OF KALAI				
WAIMEA RIVER TRIBUTARIES	STATE DLNR		*	DHHL ENTITLED TO ANY SURPLUS FROM SYSTEM SOURCE FOR KOKEE & PUU OPAE DITCHES
WAIMEA RIVER	KEKAHA SUGAR CO.	AGRICULTURE	15.00	TMK 4-1-2-01
MOLOAA STREAM	STATE DHHL	LIVESTOCK	*	TMK 4-4-9-10 USED AT SOURCE
ANAHOLA STREAM		IRRIGATION	*	

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXISTING DIVERSION (MGD)	REMARKS
=====				
* ISLAND OF MOLOKAI WAIKOLU VALLEY SOURCES	STATE DLNR	IRRIGATION	*	TMK 6-1-01 SOURCE FOR MIS 2/3 PREFERENCE FOR DHHL
WAIHANAU STREAM	STATE DHHL	DOMESTIC	*	TMK 2-5-2-14 SOURCE FOR HOOLEHUA & KALAMULA HOMESTEADS
KAMILOLOA GULCH	STATE DHHL	DOMESTIC	*	TMK 2-5-4-03 SOURCE FOR DHHL WATER SYSTEM
* ISLAND OF OAHU NANAKULI STREAM	STATE DHHL	AGRICULTURAL	*	TMK 1-8-9-17:08 USED AT SOURCE



HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXIST DIVERSION (MGD)	REMARKS
** DEPARTMENT OF LAND & NATURAL RESOURCES				
* ISLAND OF MAUI POKAKAEKANE STREAM		IRRIGATION	0.40	TMK 1-1-02-2 KEANAE ARBORETUM IRRIGATION WATER SUPPLY
* ISLAND OF MOLOKAI WAIKOLU STREAM	STATE DLNR	POTABLE	0.01	TMK 2-6-01-2 WAIKOLL LOOKOUT FAUCET
* ISLAND OF HAWAII HOPUKANI SPRINGS	STATE DLNR	MIXED	*	TMK 4-4-15:1,9 MAUNA KEA STATE RECREATION AREA WATER SUPPLY
KOHALA DITCH	STATE DLNR	MIXED	*	LAPAKAHI STATE PARK WATER SUPPLY
* ISLAND OF KAUAI ELEKENINUI STREAM	STATE DLNR	POTABLE	*	TMK 1-4-1:13 KOEKEE STATE PARK WATER SUPPLY
UNNAMED STREAM AT KEE BEACH HAENA	STATE DLNR	POTABLE	*	TMK 5-9-7:12 PARK WATER SUPPLY
KOEKEE DITCH	STATE DLNR	POTABLE	*	TMK 1-2-1:3 WAIMEA CANYON COMFORT STATION WATER SUPPLY
MILOLII STREAM	STATE DLNR	POTABLE	*	TMK 1-4-01:07 PARK SUPPLY
WAILUA RIVER	STATE DLNR	POTABLE	*	TMK 3-9-2:06 FERN GROTTTO COMFORT STATION WATER SUPPLY

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE DIVERSIONS  
=====

STREAM NAME	WATER PROVIDER	PRIMARY USE	EST EXIST DIVERSION (MGD)	REMARKS
=====				
* ISLAND OF MALI				
IAO STREAM	STATE DLNR	MIXED	*	TMK 3-3-03:12
HAIPUENA STREAM	STATE DLNR	POTABLE	*	TMK 1-1-01 KAUMAHANA STATE PARK WATER SUPPLY
WAIHUE STREAM	STATE DLNR	POTABLE	*	TMK 1-2-04 PUA'A KA'A STATE PARK WATER SUPPLY
* ISLAND OF MOLOKAI				
WAIKOLU STREAM	STATE DLNR (MIS)	IRRIGATION	*	TMK 6-1-01 DHHL HOOLEHUA AG LOTS PH I & II
WAIKOLU STREAM	STATE DLNR (MIS)	IRRIGATION	*	WAIKOLU DAM #3 DHHL HOOLEHUA AG LOTS PH I & II
WAIKOLU STREAM	STATE DLNR (MIS)	IRRIGATION	*	WAIKOLU DAM NO. 1 DHHL HOOLEHUA AG LOTS PH I & II
WAIKOLU STREAM	STATE DLNR (MIS)	IRRIGATION	*	WAIKOLU DAM NO. 2 DHHL HOOLEHUA AG LOTS PH I & II

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# **APPENDIX B**

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**LISTING OF EXISTING REGISTERED STATE WELLS**

HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
** DEPARTMENT OF ACCOUNTING & GENERAL SERVICES				
* ISLAND OF OAHU				
STATE CAPITOL WELL #1 (HOTEL)	1851-61	STATE DAGS	COOLING	TMK 2-1-24:01 AIR CONDITIONING CONDENSER
STATE CAPITOL WELL # 2 (QUEENS)	1851-76	STATE DAGS	NON-POTABLE	TMK 2-1-24:01 SOURCE FOR REFLECTING POOL

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS

WELL NAME	STATE		PRIMARY USE	REMARKS
	WELL NO.	WATER PROVIDER		
** DEPARTMENT OF AGRICULTURE				
* ISLAND OF OAHU				
SHAUGHNESSY TUNNEL	2147-01	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
AINONI SPRING	2146-02	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
COOKE TUNNEL	2146-01	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
CLARK TUNNEL	2046-03	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
KOREAN TUNNEL	2045-02	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE
FAULT TUNNEL	2045-01	STATE DOA	IRRIGATION	WAIMANALO IRRIGATION SYSTEM MAUNAWILI DITCH INTAKE

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
** DEPARTMENT OF BUDGET & FINANCE				
* ISLAND OF MAUI				
WAHIKULI EXPLORATORY WE.L	5439-01			PROPOSED - PERMIT ISSUED
WAHIKULI EXPLORATORY WE.L NO. 2	5439-02			PROPOSED - PERMIT ISSUED
* ISLAND OF OAHU				
KAPOLEI IRRIGATION WELL A	2003-01			PROPOSED - PERMIT ISSUED
KAPOLEI IRRIGATION WELL B	2003-02			PROPOSED - PERMIT ISSUED
KAPOLEI IRRIGATION WELL C	2003-03			PROPOSED - PERMIT ISSUED
KAPOLEI IRRIGATION WELL D	2004-05			PROPOSED - PERMIT ISSUED
WAIHADLE "A"	2853-04			
WAIHADLE "B"	2853-05			

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE	WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
=====					
** DEPARTMENT OF HAWAIIAN HOME LANDS					
* ISLAND OF HAWAII					
PANAWEA NO. 1			LAPAOEHOE TRANS CO.		TMK 3-2-1-25:132-134 PANAWEA HOUSE & FARM LOTS
KAWAIHAE					TMK 3-6-1-01
PUUEO					TMK 3-9-3-01
DHHL - KAWAIHAE		6448-02			PROPOSED - PERMIT ISSUED
* ISLAND OF KAUAI					
ANAHOLA WELL		0919-01	KAGIMOTO ASSOC	IRRIGATION	TMK 4-8-05
* ISLAND OF MOLOKAI					
WAIKOLU VALLEY WELLS #22, #23 & #24			STATE DLNR	IRRIGATION	TMK 6--01 MOLOKAI IRRIGATION SYSTEM
KAULUWAI		0801-02	STATE DHHL	POTABLE	TMK 2-5-2-10:53
KAULUWAI WELL # 16		0801-01	STATE DHHL	POTABLE	TMK 2-5-2-10:53
UMIPAA		0603-02	STATE DHHL		TMK 2-5-2-10
KALANAULA NO. 2		0602-02	STATE DHHL		TMK 2-5-2-10
KALANAULA NO. 1		0602-01	STATE DHHL		TMK 2-5-2-10
KAPAAKEA		0500-01	STATE DHHL		TMK 2-5-4-03
KAMILOLOA T HCLE		0459-03	STATE DHHL		TMK 2-5-4-03
KAMILOLOA		0400-01	STATE DHHL		TMK 2-5-4-03

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
** DEPARTMENT OF HEALTH				
* ISLAND OF OAHU				
HAWAII STATE HOSPITAL	2448-01	STATE DOH	IRRIGATION	



HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
=====				
** DEPARTMENT OF LAND & NATURAL RESOURCES				
* ISLAND OF OAHU				
ANUENUE FISHERIES SEAWATER WELL	1852-08	STATE DLNR	SEAWATER	TMK 1-5-41:06
* ISLAND OF MALI				
KANAHA POND WILDLIFE SANCTUARY		STATE DLNR	NON-POTABLE	TMK 3-8-01:19 WATER LEVEL MANAGEMENT
* ISLAND OF HAWAII				
HAPUNA BEACH STATE RECREATION AREA	5948-01	STATE DLNR	POTABLE	TMK 6-6-1:2 PARK WATER SUPPLY
* ISLAND OF KALAI				
WAILUA RIVER (FERN GROTTTO)	0221-01	STATE DLNR		TMK 3-9-3:06
KOKEE STATE PARK (ELEKINIIKI STREAM)	0739-01	STATE DLNR	POTABLE	TMK 1-4-1:13 PARK WATER SUPPLY
FERN GROTTTO	0221-01			
FERN GROTTTO NO. 2	0221-02			PROPOSED - PERMIT ISSUED
KOKEE EXPLORATORY WELL A	0739-01			PROPOSED - PERMIT ISSUED
KOKEE EXPLORATORY WELL B	0739-02			PROPOSED - PERMIT ISSUED
* ISLAND OF OAHU				
MAKAPUU LIGHTHOUSE WATERHEAD		STATE DLNR	NOT IN USE	TMK 4-1-11:02
KAIKA STATE RECREATION AREA		STATE DLNR		TMK 6-6-07:07

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
KAHANA VALLEY STATE PARK		STATE DLNR		TMK 5-2-02
KAENA POINT STATE PARK (MAKUA)	3213-07	STATE DLNR		TMK 8-1-01:19
POLIHALE STATE PARK - KAULAULA VALLEY	0545-01	STATE DLNR	POTABLE	TMK 1-2-2:01 PARK WATER SUPPLY
MAKUA WELL	3213-07			
* ISLAND OF MOLOKAI				
WAIKOLU TUNNEL WELL	0855-01	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
WAIKOLU VALLEY NO. 1	0855-02	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
WAIKOLU VALLEY NO. 2	0855-03	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
WAIKOLU WELL NO. 4	0855-04	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
WAIKOLU WELL NO. 5	0855-05	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
WAIKOLU WELL NO.6	0855-06	STATE DLNR	IRRIGATION	TMK 6-1-01 MOLOKAI IRRIGATION SYSTEM
* ISLAND OF HAWAII				
PUUKAPU WELL	6337-01			
KOHALA T.H. 1	6340-05			
KOHALA T.H. 4	6440-01			
KOHALA T.H. 3	6440-02			

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
=====				
KOHALA T.H. 5	6440-03			
KOHALA T.H. 2	6340-04			
KAWAIHAE EXPLORATORY WELL	6448-01			PROPOSED - PERMIT ISSUED
KAU EXPLORATORY WELL	0139-01			PROPOSED - PERMIT ISSUED
KEEI EXPLORATORY WELL NO. 4	2753-03			PROPOSED - PERMIT ISSUED
KALAGA EXPLORATORY WELL	4358-01			PROPOSED - PERMIT ISSUED
* ISLAND OF KAUAI				
MAKALEHA NO. II	0622-02			PROPOSED - PERMIT ISSUED
* ISLAND OF MAUI				
WAIHEHU MONITOR WELL	5430-05			
* ISLAND OF MOLOKAI				
WAIKCLU EXPLORATORY WELL NO. 1	0855-04			
WAIKCLU EXPLORATORY WELL NO.2	0855-05			
WAIKCLU EXPLORATORY WELL NO. 3	0855-06			
* ISLAND OF OAHU				
WAIPIO - MAUKA	2659-02			PROPOSED - PERMIT ISSUED
DESALT - BASALT	1905-04			
DESALT - CAPROCK	1905-05			
KAIPAPAU EXPLORATORY WELL	3755-07			PROPOSED - PERMIT ISSUED
KAHANA II EXPLORATORY WELL	3252-01			PROPOSED - PERMIT ISSUED

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
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\*\* DEPARTMENT OF TRANSPORTATION

\* ISLAND OF OAHU

DOT-USGS OBSERVATION WELL	2101-03			PROPOSED - PERMIT ISSUED
HAIKU - DOT WELL	2450-03			PROPOSED - PERMIT ISSUED
DILLINGHAM MILITARY RESERVATION	3412-03	STATE DOT	MIXED	TMK 6-9-01:03
HONOLULU INTL AIRPORT	2055-03		OTHER	
NORTH HALAWA	2451-01			PROPOSED - PERMIT ISSUED

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HAWAII WATER PLAN  
STATE WATER PROJECTS PLAN  
LIST OF EXISTING REGISTERED STATE WELLS  
=====

WELL NAME	STATE WELL NO.	WATER PROVIDER	PRIMARY USE	REMARKS
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\*\* DEPARTMENT OF UNIVERSITY OF HAWAII

\* ISLAND OF HAWAII  
KAPOHO AIRSTRIP

3081-01

PROPOSED - PERMIT ISSUED

# **APPENDIX C**

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**LISTING OF EXISTING STATE OPERATED WATER SYSTEMS**

HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF EXISTING STATE OPERATED WATER SYSTEMS  
 =====

PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DWD BY UNIT (MGD)	PROJECT AREA (AC)	EST DWD BY AREA (MGD)	AGENCY EST DWD (MGD)	REMARKS
** ISLAND OF HAWAII											
* DEPARTMENT OF AGRICULTURE											
WAIWEA IRRIGATION SYSTEM (HAW'N HOMES)	EAST MAUNA KEA	HONOKAA	40201	COMBINED	IRRIGATION	0	0.00	103.0	0.00	0.08	EXISTING STATE OPERATED SYSTEM
WAIWEA IRRIGATION SYSTEM (LALAMILO)	EAST MAUNA KEA	HONOKAA	40201	COMBINED	IRRIGATION	0	0.00	278.0	0.00	0.94	EXISTING STATE OPERATED SYSTEM
WAIWEA IRRIGATION SYSTEM (PUUKAPU)	EAST MAUNA KEA	HONOKAA	40201	COMBINED	IRRIGATION	0	0.00	108.0	0.00	0.10	EXISTING STATE OPERATED SYSTEM
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF STATE PARKS											
MAUNA KEA STATE PARK	WEST MAUNA KEA	WAIWEA	40301	GROUNDWATER	POTABLE	25	0.00	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF PUBLIC SAFETY											
KULANI CORRECTIONAL CENTER	NORTHEAST MAUNA KEA	HILO	40401	SURFACE	POTABLE	204	0.05	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
** ISLAND OF KAUAI											
* DEPARTMENT OF DEFENSE											
KOKEE STATION	WAIWEA	AIR NATIONAL GUARD WAIWEA	40302	GROUNDWATER	POTABLE	200	0.01	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF HAWAIIAN HOME LANDS											
ANAHOLA FARM LOTS (EXISTING)	LIHUE	ANAHOLA	40104	GROUNDWATER	COMBINED	44	0.01	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF STATE PARKS											
POLIHALE STATE PARK	WAIWEA	KEKAHA	40301	GROUNDWATER	POTABLE	1000	0.06	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
** ISLAND OF MAUI											
* DEPARTMENT OF EDUCATION											
LAHAINALUNA HIGH SCHOOL	LAHAIYA	LAUNIUPOKO	40204	SURFACE	POTABLE	800	0.05	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF STATE PARKS											
KAUWAHINA STATE PARK	KOOLAUPU	WAIKAMOI	40403	SURFACE	POTABLE	300	0.02	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
** ISLAND OF MOLOKAI											
* DEPARTMENT OF AGRICULTURE											
MOLOKAI IRRIGATION SYSTEM			40000	COMBINED	IRRIGATION	0	0.00	4410.0	0.00	3.40	EXISTING STATE OPERATED SYSTEM
* DEPARTMENT OF HAWAIIAN HOME LANDS											
HOOLEHUA	CENTRAL	HOOLEHUA	40201	GROUNDWATER	POTABLE	1700	0.42	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF STATE PARKS											
WAIALALA STATE PARK	CENTRAL	KUALAPUU	40203	GROUNDWATER	POTABLE	500	0.03	0.0	0.00	0.00	EXISTING PUBLIC WATER SYSTEM

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HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF EXISTING STATE OPERATED WATER SYSTEMS  
 =====

PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF OAHU											
* DEPARTMENT OF AGRICULTURE WAIMANALO IRRIGATION SYSTEM	WINDWARD	WAIMANALO	10604	COMBINED	IRRIGATION	0	0.00	974.00	0.00	0.18	EXISTING STATE OPERATED SYSTEM
* DEPARTMENT OF HEALTH HAWAII STATE HOSPITAL	WINDWARD	KOOLAUPOKO	10603	GROUNDWATER	POTABLE	2000	0.50	0.00	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
WAIMANO TRAINING SCHOOL	PEARL HARBOR	WAIMALU	10201	GROUNDWATER	POTABLE	235	0.06	0.00	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF LAND & NATURAL RESOURCES KAHANA STATE PARK	WINDWARD	DIVISION OF STATE PARKS KAHANA		10602	GROUNDWATER	POTABLE	130	0.01	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF PUBLIC SAFETY WAIAWA CORRECTIONAL FACILITY	PEARL HARBOR	WAIAWA	10202	SURFACE	POTABLE	200	0.05	0.00	0.00	0.00	EXISTING PUBLIC WATER SYSTEM
* DEPARTMENT OF TRANSPORTATION DILLINGHAM FIELD - MOKULEIA	NORTH	AIRPORTS DIVISION MOKULEIA		10401	GROUNDWATER	POTABLE	1800	0.11	0.00	0.00	EXISTING PUBLIC WATER SYSTEM

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# **APPENDIX D**

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## **INVENTORY OF PROPOSED STATE PROJECTS**

HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF HAWAII										
* DEPARTMENT OF ACCOUNTING & GENERAL SERVICES										
KONA CIVIC CENTER	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	0	0.00	30.00	0.09	0.00	
* DEPARTMENT OF AGRICULTURE										
HAMAKUA AGRICULTURAL PARK	EAST MAUNA KEA	HONOKAA	80201 SURFACE	IRRIGATION	0	0.00	300.00	1.50	1.50	
KE-AHOLE AGRICULTURAL PARK PHASE I	HUALALAI	KEAUHOU	80901 GROUNDWATER	COMBINED	12	0.00	65.00	0.33	0.33	
KE-AHOLE AGRICULTURAL PARK PHASE II	HUALALAI	KEAUHOU	80901 GROUNDWATER	COMBINED	22	0.01	114.00	0.57	0.57	
KEAHOE AGRICULTURAL PROCESSING FACILITY	NORTHWEST MAUNA LOA	ANAEOOMALU	80701 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.00	3 AC @ 250 GPD +2 UNITS @125 GPD
LIVESTOCK FEED LOT & RENDERING FACILITY	HUALALAI	KIHOLO	80902 GROUNDWATER	POTABLE	0	0.00	300.00	0.00	0.50	ALTERNATE SITE FOR LIVESTOCK AG PARK
NORTH KOHALA FARM LOTS	KOHALA	HAWI	80101 SURFACE	IRRIGATION	0	0.00	750.00	3.75	3.75	GOVERNOR'S AGRICULTURE COORDINATING COMMITTEE
PAHOA AGRICULTURAL PARK PHASE I	KILAUEA	PAHOA	80801 GROUNDWATER	COMBINED	27	0.01	410.00	2.05	2.05	
PAHOA AGRICULTURAL PARK PHASE II	KILAUEA	PAHOA	80801 GROUNDWATER	COMBINED	33	0.01	189.00	0.94	0.94	
PANAEOA AGRICULTURAL PARK	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	COMBINED	29	0.01	460.00	2.30	2.30	
PANAEOA AGRICULTURAL PROCESSING FACILITY	NORTHEAST MAUNA LOA	KEAAU	80402 GROUNDWATER	POTABLE	0	0.00	4.00	0.00	0.00	VERIFY PROJECT SCHEDULE
PUU KAPU DEEP WELL DEVELOPMENT	WEST MAUNA KEA	WAIMEA	80301 GROUNDWATER	IRRIGATION	0	0.00	0.00	0.00	0.75	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
PUU KAPU SHALLOW WELL DEVELOPMENT	WEST MAUNA KEA	WAIMEA	80301 GROUNDWATER	IRRIGATION	0	0.00	0.00	0.00	0.50	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
REHABILITATE UPPER HAMAKUA DITCH INTAKES	WEST MAUNA KEA	WAIMEA	80301 SURFACE	IRRIGATION	0	0.00	800.00	5.60	4.70	
UPPER HAMAKUA DITCH IMPROVEMENTS	WEST MAUNA KEA	WAIMEA	80301 SURFACE	IRRIGATION	0	0.00	1240.00	0.00	4.00	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
WAIMEA AGRICULTURAL PARK - LALAMILO ADD	WEST MAUNA KEA	WAIMEA	80301 SURFACE WATER	IRRIGATION	0	0.00	163.00	0.81	0.81	
WAIMEA-PAUUILO WATERSHED PROJECT	WEST MAUNA KEA	WAIMEA	80301 SURFACE	IRRIGATION	0	0.00	24040.00	0.00	4.00	IN COOPERATION WITH DHHL
WEST HAWAII LIVESTOCK FEEDLOT	HUALALAI	KIHOLO	80902 GROUNDWATER	POTABLE	0	0.00	200.00	0.00	0.50	ALTERNATE SITE FOR LIVESTOCK AG PARK
* DEPARTMENT OF BUDGET & FINANCE HOUSING FINANCE & DEVELOPMENT CORP										
HALE NAMA OLAMA	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	41	0.02	12.60	0.04	0.00	TW: 2-4-01:158
HAWAII COMMUNITY COLLEGE	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	5	0.00	0.23	0.00	0.00	TW: 2-4-26:47
KEALAKEHE PLANNED COMMUNITY (LA'I'OPUA)	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	4200	1.68	1540.00	4.62	3.50	TW: 7-4-08:3 & 17 (VERIFY)
KEALAKEHE PLANNED COMMUNITY - PHASE I	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	171	0.07	90.00	0.27	0.00	TW: 7-4-08:POR. 17, TWK: 7-4-19:POR. 43
LALAMILO/UPPER	WEST MAUNA KEA	WAIMEA	80301 GROUNDWATER	POTABLE	400	0.16	100.00	0.30	0.00	TW: 6-6-01:POR. 2
MILOLII SELF HELP - RENTAL	SOUTHWEST MAUNA LOA	KAAPUNA	80602 GROUNDWATER	POTABLE	17	0.01	0.00	0.00	0.00	
MILOLII SELF-HELP PROGRAM	SOUTHWEST MAUNA LOA	KAAPUNA	80602 GROUNDWATER	POTABLE	23	0.01	49.00	0.15	0.00	TW: 8-9-04:7, 21 & 22
PIIHOEWA MEADOWS	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	37	0.01	10.89	0.03	0.00	TW: 2-5-10:POR. 1
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM BUSINESS DEVELOPMENT & MARKETING										
SPACE LAUNCH FACILITY - PALIMA POINT	KILAUEA	KEAIWA	80804	COMBINED	0	0.00	1200.00	4.80	0.16	PALIMA PT. - RECOMMENDED SITE KAHILIPALI PT. - ALTERNATIVE SITE
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM HIGH TECHNOLOGY DEVELOPMENT CORP										
HAWAII OCEAN SCIENCE & TECHNOLOGY PARK	HUALALAI	KEAUHOU	80901 GROUNDWATER	COMBINED	0	0.00	0.00	0.00	0.39	
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM NATURAL ENERGY LABORATORY OF HAWAII										
NATURAL ENERGY LABORATORY OF HAWAII	HUALALAI	KEAUHOU	80901 GROUNDWATER	COMBINED	0	0.00	0.00	0.00	0.12	

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HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS

PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
* DEPARTMENT OF DEFENSE											
KEALAKEKUA ARMORY	SOUTHWEST MAUNA LOA	KEALAKEKUA	80403	GROUNDWATER	POTABLE	136	0.01	0.00	0.00	0.00	
KOHALA ARMORY	KOHALA	WAIMANU	80102	GROUNDWATER	POTABLE	35	0.00	0.00	0.00	0.00	
OLAA ARMORY	NORTHEAST MAUNA LOA	KEAAU	80402	GROUNDWATER	POTABLE	101	0.01	0.00	0.00	0.00	
PAHALA ARMORY	SOUTHEAST MAUNA LOA	NAALEHU	80503	GROUNDWATER	POTABLE	35	0.00	0.00	0.00	0.00	
* DEPARTMENT OF EDUCATION											
HOLUALOJA/KAHAKAI ELEMENTARY SCHOOL			80100		POTABLE	1000	0.06	0.00	0.00	0.00	LOCATION NOT YET DETERMINED
HONOKAA ELEMENTARY SCHOOL	EAST MAUNA KEA	HONOKAA	80201	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KAWAIHAE I ELEMENTARY SCHOOL	KOHALA	MAHUKONA	80103	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	WITHIN DHHL PROJECT
KAWAIHAE II ELEMENTARY	KOHALA	MAHUKONA	80103	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	WITHIN DHHL PROJECTS
KAWAIHAE III ELEMENTARY	KOHALA	MAHUKONA	80103	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	WITHIN DHHL PROJECTS
KAWAIHAE/WAIKOLOA INTERMEDIATE SCHOOL	KOHALA	MAHUKONA	80103	GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	EITHER IN DHHL PROJECTS OR AT WAIKOLOA
KEAAU HIGH SCHOOL	NORTHEAST MAUNA LOA	KEAAU	80402	GROUNDWATER	POTABLE	2000	0.12	0.00	0.00	0.00	
KEALAKEHE HIGH SCHOOL	HUALALAI	KEAUHOU	80901	GROUNDWATER	POTABLE	2000	0.12	0.00	0.00	0.00	
KEALAKEHE II ELEMENTARY SCHOOL	HUALALAI	KEAUHOU	80901	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KEEAU ELEMENTARY SCHOOL	NORTHEAST MAUNA LOA	KEAAU	80402	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KEONEPOKO ELEMENTARY SCHOOL	KILAUEA	PAHOA	80801	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
NEW KONAWAINA ELEMENTARY SCHOOL	SOUTHWEST MAUNA LOA	KEALAKEKUA	80603	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIKAEA UKA ELEMENTARY SCHOOL	NORTHEAST MAUNA LOA	HILO	80401	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIKOLOA ELEMENTARY SCHOOL	WEST MAUNA KEA	WAIKAEA	80301	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIKAEA ELEMENTARY SCHOOL	WEST MAUNA KEA	WAIKAEA	80301	GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
* DEPARTMENT OF HAWAIIAN HOME LANDS											
HUMUULA - PASTURE LOTS	EAST MAUNA KEA	HAKALAU	80203		POTABLE	12	0.01	0.00	0.00	0.00	
KAMAEOA - PASTURE LOTS	SOUTHEAST MAUNA LOA	KALAE	80504		COMBINED	25	0.01	0.00	0.00	0.00	
KAMAEOA - PUEO FARM LOTS	SOUTHEAST MAUNA LOA	KALAE	80504		COMBINED	50	0.03	0.00	0.00	0.00	
KAWAIHAE - MASTER PLAN AREA	KOHALA	MAHUKONA	80103		POTABLE	3500	2.10	0.00	0.00	0.00	
KAWAIHAE - RESIDENCE LOTS (MAUKA)	KOHALA	MAHUKONA	80103		POTABLE	195	0.12	0.00	0.00	0.00	
KAWAIHAE - RESIDENCE LOTS WAKAI	KOHALA	MAHUKONA	80103		POTABLE	22	0.01	0.00	0.00	0.00	
KEAUKAHA - RESIDENCE LOTS UNIT 2	NORTHEAST MAUNA LOA	HILO	80401	GROUNDWATER	POTABLE	83	0.04	0.00	0.00	0.00	
MAKUU - FARM LOTS (2 ACRES)	KILAUEA	PAHOA	80801		COMBINED	50	0.03	0.00	0.00	0.00	
MAKUU - FARM LOTS (2 ACRES) (IRRIG)	KILAUEA	PAHOA	80801		IRRIGATION	0	0.00	100.00	0.20	0.00	
MAKUU - FARM LOTS (5 ACRE)	KILAUEA	PAHOA	80801		COMBINED	127	0.06	0.00	0.00	0.00	
MAKUU - FARM LOTS (5 ACRE) (IRRIG)	KILAUEA	PAHOA	80801		IRRIGATION	0	0.00	635.00	1.27	0.00	
PANAEOA - FARM LOTS PUNA PAPAYA	NORTHEAST MAUNA LOA	HILO	80401		COMBINED	26	0.01	0.00	0.00	0.00	
PANAEOA - FARM LOTS PUNA PAPAYA (IRRIG)	NORTHEAST MAUNA LOA	HILO	80401		IRRIGATION	0	0.00	150.00	0.30	0.00	
PANAEOA - FARM LOTS (AIWAE ST)	NORTHEAST MAUNA LOA	HILO	80401		COMBINED	61	0.03	0.00	0.00	0.00	
PANAEOA - FARM LOTS (AIWAE ST) (IRRIG)	NORTHEAST MAUNA LOA	HILO	80401		IRRIGATION	0	0.00	320.00	0.64	0.00	
PANAEOA - RESIDENCE LOTS UNIT 4	NORTHEAST MAUNA LOA	HILO	80401		POTABLE	50	0.03	0.00	0.00	0.00	
PUUKAPU - FARM LOTS UNIT 2, 2A	WEST MAUNA KEA	WAIKAEA	80301		COMBINED	75	0.04	0.00	0.00	0.00	
PUUKAPU - FARM LOTS UNITS 2, 2A (IRRIG)	WEST MAUNA KEA	WAIKAEA	80301		IRRIGATION	0	0.00	800.00	1.60	0.00	
PUUKAPU - PASTURE LOTS	WEST MAUNA KEA	WAIKAEA	80301		COMBINED	184	0.11	0.00	0.00	0.00	
PUUKAPU - PASTURE LOTS	WEST MAUNA KEA	WAIKAEA	80301		PASTURE	0	0.00	4510.00	0.00	0.00	PASTURE CONSUMPTION TO BE DETERMINED
PUUKAPU - RESIDENCE LOTS (PUU PELEHU)	WEST MAUNA KEA	WAIKAEA	80301		POTABLE	33	0.02	0.00	0.00	0.00	

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HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UUIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
WAIKAEA - RESIDENCE LOTS UNIT 2A-5	NORTHEAST MAUNA LOA	HILO	80401	POTABLE	20	0.01	0.00	0.00	0.00	
* DEPARTMENT OF HUMAN SERVICES	HAWAII HOUSING AUTHORITY									
HONOKAA KNLS	EAST MAUNA KEA	HONOKAA	80201 GROUNDWATER	POTABLE	50	0.02	15.00	0.04	0.00	
LOKAHI	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	25	0.01	3.00	0.01	0.00	
WEST HAWAII (KONA, WAIKOLOA)	NORTHWEST MAUNA LOA	ANAEHOOMALU	80701 GROUNDWATER	POTABLE	55	0.02	5.00	0.01	0.00	
* DEPARTMENT OF JUDICIARY	HAWAII HOUSING AUTHORITY									
HILO COURT COMPLEX	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	0	0.00	2.00	0.02	0.00	PORTION TO BE SUPPLIED BY SURFACE WATER
* DEPARTMENT OF LAND & NATURAL RESOURCES	AQUACULTURE DEVELOPMENT PROGRAM									
HAWAII TROPICAL AQUACULTURE CENTER-HILO	NORTHEAST MAUNA LOA	HILO	80401	AQUACULTURE	0	0.00	0.00	0.00	0.00	SATELLITE FACILITY
* DEPARTMENT OF LAND & NATURAL RESOURCES	DIVISION OF AQUATIC RESOURCES									
HILO BAIT STATION - BRACKISH WATER	NORTHEAST MAUNA LOA	HILO	80401 SURFACE	AQUACULTURE	0	0.00	0.00	0.00	0.15	
HILO BAIT STATION - FRESH WATER	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.03	
* DEPARTMENT OF LAND & NATURAL RESOURCES	DIVISION OF STATE PARKS									
COASTAL PARK - MAHAULALA/MAKALAWENA/TC	HUALALAI	KEAUHOU	80901 GROUNDWATER	COMBINED	0	0.00	0.00	0.00	0.00	
OLD KONA AIRPORT EXPANSION	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.17	
* DEPARTMENT OF LAND & NATURAL RESOURCES	DIVISION OF WATER RESOURCES MANAGEMENT									
HUALALAI EXPLORATORY WELL	HUALALAI	KEAUHOU	80901 GROUNDWATER	EXPLORATORY	0	0.00	0.00	0.00	0.00	
KAWAIHAE EXPLORATORY WELL	KOHALA	MAHUKONA	80103 GROUNDWATER	EXPLORATORY	0	0.00	0.00	0.00	0.00	
KEEI NO. 4 EXPLORATORY WELL	SOUTHWEST MAUNA LOA	KEALAKEKUA	80903 GROUNDWATER	EXPLORATORY	0	0.00	0.00	0.00	0.00	
* DEPARTMENT OF PUBLIC SAFETY	HAWAII HOUSING AUTHORITY									
HALE NANI WORK RELEASE CENTER	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	100	0.01	10.86	0.00	0.01	
HAWAII COMMUNITY CORRECTIONAL CENTER	EAST MAUNA KEA	ONOMEA	80204 GROUNDWATER	POTABLE	88	0.01	4.00	0.00	0.01	
KULANI CORRECTIONAL CENTER - EXP	NORTHEAST MAUNA LOA	HILO	80401 SURFACE	COMBINED	0	0.00	7500.00	0.00	0.10	160 BEDS + AGRICULTURAL PROGRAM
WEST HAWAII DETENTION CENTER	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	61	0.01	15.00	0.00	0.01	
* DEPARTMENT OF TRANSPORTATION	AIRPORTS DIVISION									
HILO INTERNATIONAL AIRPORT MASTER PLAN	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	COMBINED	0	0.00	1340.00	0.00	0.08	
KEAHOLE AIRPORT	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	0	0.00	3270.00	9.81	0.33	
* DEPARTMENT OF TRANSPORTATION	HARBORS DIVISION									
HILO HARBOR - 2010 MASTER PLAN	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	COMBINED	0	0.00	23.80	0.04	0.09	
HONOKOHU HARBOR EXPANSION	HUALALAI	KEAUHOU	80901 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.13	ULTIMATE DEMAND BASED ON WATER MASTER PLAN
KAWAIHAE BOAT HARBOR	KOHALA	MAHUKONA	80103 GROUNDWATER	POTABLE	291	0.09	0.00	0.00	0.09	
KAWAIHAE HARBOR - 2010 MASTER PLAN	KOHALA	MAHUKONA	80103 GROUNDWATER	COMBINED	0	0.00	22.30	0.04	0.14	
* DEPARTMENT OF UNIVERSITY OF HAWAII	AGRICULTURAL EXTENSION SERVICE									
KOMOHANA AGRICULTURAL COMPLEX	NORTHEAST MAUNA LOA	HILO	80401 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.01	

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HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY (MT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF KAUAI											
* DEPARTMENT OF AGRICULTURE											
HANAPEPE AGRICULTURAL PARK	WAIMEA	MAKAWELI	20303	SURFACE	IRRIGATION	0	1.00	300.00	1.50	1.50	ALTERNATE SITE FOR KAUAI AG PARK
KEALIA AGRICULTURAL PARK	LIHUE	ANAHOLA	20104	SURFACE	IRRIGATION	0	1.00	300.00	1.50	1.50	ALTERNATE SITE FOR KAUAI AG PARK
MOLOAA AGRICULTURAL PARK	LIHUE	ANAHOLA	20104	GROUNDWATER	IRRIGATION	0	1.00	760.00	3.80	3.80	ALTERNATE SITE FOR KAUAI AG PARK
WAILUA AGRICULTURAL PARK	LIHUE	WAILUA	20103	SURFACE WATER	IRRIGATION	0	1.00	200.00	1.00	1.00	ALTERNATE SITE FOR KAUAI AG PARK
WAIMEA AGRICULTURAL PARK	WAIMEA	KEKAHA	20301	SURFACE	IRRIGATION	0	1.00	300.00	1.50	1.50	ALTERNATE SITE FOR KAUAI AG PARK
* DEPARTMENT OF BUDGET & FINANCE											
HOUSING FINANCE & DEVELOPMENT CORP											
CLIFFSIDE AT HANAPEPE	WAIMEA	MAKAWELI	20303	GROUNDWATER	POTABLE	305	1.15	85.00	0.26	0.00	TKW: 1-8-07:POR. 3 & 18
HANAMAULU	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	400	1.20	68.80	0.21	0.00	TKW: 3-7-03:20
KAUAI ELDERLY	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	50	1.03	0.00	0.00	0.00	VERIFY LOCATION
KAUAI MASTER PLAN	LIHUE	HANAMAULU	20000	GROUNDWATER	POTABLE	2000	1.00	0.00	0.00	0.00	VERIFY LOCATION
KAUAI RENTAL	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	100	1.05	0.00	0.00	0.00	VERIFY LOCATION
MOLOKOA PROJECT	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	0	1.00	197.00	0.59	0.00	TKW: 3-6-02:
PUHI	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	13	1.01	2.00	0.01	0.00	TKW: 3-3-07:2
WAILUA MAIAI	LIHUE	WAILUA	20103	GROUNDWATER	POTABLE	218	1.00	41.67	0.13	0.00	TKW: 3-9-06:9, SEE FACT SHEET KAUAI COUNTY HOUSING AGENCY: KAUAI COUNTY WANTS OPEN SPACE.
WAILUA MAKA	LIHUE	WAILUA	20103	GROUNDWATER	POTABLE	1920	1.96	320.20	0.96	0.00	TKW: 3-9-02:12
WELIWELI PROJECT	LIHUE	KOLOA	20101	GROUNDWATER	POTABLE	340	1.00	66.10	0.20	0.00	TKW: 2-8-72:6
* DEPARTMENT OF EDUCATION											
KAPAA II ELEMENTARY SCHOOL	LIHUE	ANAHOLA	20104	GROUNDWATER	POTABLE	1000	1.06	0.00	0.00	0.00	
KAPAA INTERMEDIATE SCHOOL	LIHUE	ANAHOLA	20104	GROUNDWATER	POTABLE	1500	1.09	0.00	0.00	0.00	
KAUAI INTERMEDIATE SCHOOL	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	1500	1.09	0.00	0.00	0.00	
KING KAMULII ELEMENTARY SCHOOL	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	1000	1.06	0.00	0.00	0.00	
LIHUE/PUHI ELEMENTARY SCHOOL	LIHUE	HANAMAULU	20102	GROUNDWATER	POTABLE	1000	1.06	0.00	0.00	0.00	
* DEPARTMENT OF HAWAIIAN HOME LANDS											
ANAHOLA - FARM LOTS UNIT 1A INCREMENT 2	LIHUE	ANAHOLA	20104		COMBINED	4	1.00	0.00	0.00	0.00	
ANAHOLA - NORTH (IRRIG)	LIHUE	ANAHOLA	20104		IRRIGATION	0	1.00	300.00	0.60	0.00	
ANAHOLA - RESIDENCE LOTS (VILLAGE)	LIHUE	ANAHOLA	20104		POTABLE	27	1.01	0.00	0.00	0.00	PROJECT DEFERRED
ANAHOLA - RESIDENCE LOTS BAYVIEW/S, G1	LIHUE	ANAHOLA	20104		POTABLE	61	1.03	0.00	0.00	0.00	
ANAHOLA - RESIDENCE LOTS J & K	LIHUE	ANAHOLA	20104		POTABLE	23	1.01	0.00	0.00	0.00	
ANAHOLA - RESIDENCE LOTS M	LIHUE	ANAHOLA	20104		POTABLE	40	1.02	0.00	0.00	0.00	
ANAHOLA - RESIDENCE LOTS UNIT 3	LIHUE	ANAHOLA	20104		POTABLE	36	1.02	0.00	0.00	0.00	
ANAHOLA - RESIDENCE LOTS UNIT 4	LIHUE	ANAHOLA	20104		POTABLE	90	1.04	0.00	0.00	0.00	
ANAHOLA - RESIDENCE LOTS UNIT 5	LIHUE	ANAHOLA	20104		POTABLE	40	1.02	0.00	0.00	0.00	
KEKAHA - RESIDENCE LOTS UNIT 2	WAIMEA	KEKAHA	20301		POTABLE	21	1.01	0.00	0.00	0.00	
MOLOAA - FARM LOTS	LIHUE	ANAHOLA	20104		COMBINED	20	1.01	0.00	0.00	0.00	
MOLOAA - PASTURE LOTS	LIHUE	ANAHOLA	20104		COMBINED	8	1.00	0.00	0.00	0.00	
WAIMEA - PUU OPAE - IRRIGATION	WAIMEA	KEKAHA	20301		IRRIGATION	0	1.00	900.00	1.80	1.80	

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HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DWD BY (NIT (MGD)	PROJECT AREA (AC)	EST DWD BY AREA (MGD)	AGENCY EST DWD (MGD)	REMARKS
* DEPARTMENT OF HUMAN SERVICES PAANAU	LIHUE	HAWAII HOUSING AUTHORITY KOLOA	20101 GROUNDWATER	POTABLE	51	1.03	4.30	0.01	0.00	
* DEPARTMENT OF JUDICIARY KAUAI DISTRICT COURT	LIHUE	HANAMAULU	20102 GROUNDWATER	POTABLE	0	1.00	6.50	0.02	0.00	
* DEPARTMENT OF PUBLIC SAFETY KAUAI COMMUNITY CORRECTIONAL CENTER	LIHUE	WAILUA	20103 GROUNDWATER	POTABLE	42	1.01	9.04	0.00	0.02	
* DEPARTMENT OF TRANSPORTATION LIHUE AIRPORT MASTER PLAN	LIHUE	AIRPORTS DIVISION HANAMAULU	20102 GROUNDWATER	COMBINED	0	1.00	30.00	0.12	0.72	
* DEPARTMENT OF TRANSPORTATION HAWAIIAN HARBOR - 2010 MASTER PLAN	LIHUE	HARBORS DIVISION HANAMAULU	20102 GROUNDWATER	COMBINED	0	1.00	24.20	0.05	0.10	
PORT ALLEN HARBOR - 2010 MASTER PLAN	LIHUE	KOLOA	20101 GROUNDWATER	COMBINED	0	1.00	2.60	0.01	0.02	
* DEPARTMENT OF UNIVERSITY OF HAWAII KAUAI BRANCH STATION - DOMESTIC	LIHUE	AGRICULTURAL EXTENSION SERVICE WAILUA	20103 GROUNDWATER	POTABLE	0	1.00	0.00	0.00	0.01	
KAUAI BRANCH STATION - IRRIGATION	LIHUE	WAILUA	20103 SURFACE	IRRIGATION	0	1.00	0.00	0.00	0.06	

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HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY INIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF LANAI										
* DEPARTMENT OF AGRICULTURE LANAI AGRICULTURAL PARK	CENTRAL	LEEWARD	50102 GROUNDWATER	IRRIGATION	0	1.00	100.00	0.50	0.50	
* DEPARTMENT OF TRANSPORTATION LANAI AIRPORT MASTER PLAN	CENTRAL	AIRPORTS DIVISION LEEWARD	50102 GROUNDWATER	COMBINED	0	1.00	509.00	3.05	0.10	
* DEPARTMENT OF TRANSPORTATION KAUMALAPAU HARBOR - 2010 MASTER PLAN	KAA	HARBORS DIVISION KAUMALAPAU	50302 GROUNDWATER	COMBINED	0	1.00	3.40	0.01	0.02	LAND AREA APPROXIMATE

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HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF MAUI										
* DEPARTMENT OF ACCOUNTING & GENERAL SERVICES KAHULUI CIVIC CENTER	CENTRAL	KAHULUI	6C301 GROUNDWATER	POTABLE	0	0.00	4.37	0.03	0.00	
* DEPARTMENT OF BUDGET & FINANCE HONOKOWAI RENTAL	LAHAINA	HOUSING FINANCE & DEVELOPMENT CORP HONOKOWAI	6C203 GROUNDWATER	POTABLE	184	0.11	12.00	0.04	0.00	TW: 4-4-02:POR. 37 TW: 4-4-01:POR. 15, 16, 18, 19, 21, 22, 26 & 94
LAHAINA MASTER PLAN	LAHAINA	LAUNIPOKO	6C204 GROUNDWATER	POTABLE	3663	2.20	0.00	0.00	2.17	AGENCY ESTIMATE BASED ON 80 GPCD WATER CONSUMPTION
WAIALUA MULTI FAMILY	WAILUKU	IAO	6C000 GROUNDWATER	POTABLE	128	0.05	0.00	0.00	0.00	VERIFY LOCATION
WAIIEHU ELDERLY	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	42	0.02	3.40	0.01	0.00	(WAIIEHU TERRACE, INCR. A, PHASE III) TW: 3-3-01:10
WAIIEHU STATE LAND B&C	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	484	0.29	0.00	0.00	0.00	TW: 3-3-01:10
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM MAUI RESEARCH & TECHNOLOGY CENTER	CENTRAL	HIGH TECHNOLOGY DEVELOPMENT CORP KAMAOLE	6C304 GROUNDWATER	POTABLE	0	0.00	5.00	0.03	0.00	KIHEI
* DEPARTMENT OF DEFENSE MAUI CONSOLIDATED FACILITIES	CENTRAL	KAHULUI	6C301 GROUNDWATER	POTABLE	309	0.02	0.00	0.00	0.00	
* DEPARTMENT OF EDUCATION KIHEI II ELEMENTARY SCHOOL	CENTRAL	KAMAOLE	6C304 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
LAHAINA III ELEMENTARY SCHOOL	LAHAINA	HONOKOWAI	6C203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
LAHAINA IV ELEMENTARY SCHOOL	LAHAINA	HONOKOWAI	6C203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
MAUI LANI ELEMENTARY SCHOOL	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
MAUI-WAENA INTERMEDIATE SCHOOL	CENTRAL	KAHULUI	6C301 GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	
NAHIENAENA ELEMENTARY SCHOOL	LAHAINA	LAUNIPOKO	6C204 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
NEW MAUI INTERMEDIATE SCHOOL	WAILUKU	IAO	6C000	POTABLE	1500	0.09	0.00	0.00	0.00	VERIFY LOCATION
UPCOUNTRY HIGH SCHOOL	CENTRAL	MAKAWAO	6C303	POTABLE	2000	0.12	0.00	0.00	0.00	
WAILUKU II ELEMENTARY SCHOOL	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
* DEPARTMENT OF HAWAIIAN HOME LANDS KAHIKINUI - HOMESTEAD	KAHIKINUI	LUALAILUA	6C603	POTABLE	12	0.01	0.00	0.00	0.01	TW: 1-9-01
KAHIKINUI - LIVESTOCK	KAHIKINUI	LUALAILUA	6C603 GROUNDWATER	LIVESTOCK	0	0.00	0.00	0.00	0.01	MAUI FACTORS STOCKWATER WELL - 1760 PPM SALINE CAPACITY NOT KNOWN
KULA - KEOKEA AG LOTS	CENTRAL	KAMAOLE	6C304 SURFACE	COMBINED	68	0.04	0.00	0.00	0.00	
KULA - KEOKEA AG LOTS	CENTRAL	KAMAOLE	6C304 SURFACE	IRRIGATION	0	0.00	1200.00	2.40	0.00	
KULA - MASTER PLAN AREA	CENTRAL	KAMAOLE	6C304 SURFACE	POTABLE	-3500	0.10	0.00	0.00	0.00	
KULA - RESIDENCE LOTS WAIHOULI 1, 2	CENTRAL	KAMAOLE	6C304 SURFACE	POTABLE	308	0.18	0.00	0.00	0.00	
PAUKUKALO - RESIDENCE LOTS UNIT 3 PH 3	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	33	0.02	0.00	0.00	0.00	
PAUKUKALO - RESIDENCE LOTS UNIT 4	WAILUKU	IAO	6C102	POTABLE	14	0.01	0.00	0.00	0.00	
WAIIEHU - RESIDENCE LOTS	WAILUKU	IAO	6C102 GROUNDWATER	POTABLE	40	0.02	12.50	0.04	0.00	TW: 3-2-13:8
* DEPARTMENT OF HUMAN SERVICES WAIIEHU	WAILUKU	HAWAII HOUSING AUTHORITY IAO	6C102 GROUNDWATER	POTABLE	50	0.03	3.00	0.01	0.00	

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HAWAII WATER PLAN  
 STATE PROJECTS PLAN  
 INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
WAINEE	LAHAINA	LAUNIPOKO	60204 GROUNDWATER	POTABLE	127	0.08	14.89	0.04	0.00	TMK 4-6-15:1
* DEPARTMENT OF LAND & NATURAL RESOURCES										
DIVISION OF WATER RESOURCES MANAGEMENT										
WAIKULI EXPLORATORY WELL	LAHAINA	HONOKOWAI	60203 GROUNDWATER	EXPLORATORY	0	0.00	0.00	0.00	0.00	
WAIHEE EXPLORATORY WELL	WAILUKU	WAIHEE	60103 GROUNDWATER	EXPLORATORY	0	0.00	0.00	0.00	0.00	
* DEPARTMENT OF PUBLIC SAFETY										
MAUI COMMUNITY CORRECTIONAL CENTER	WAILUKU	IAO	60102 GROUNDWATER	POTABLE	90	0.01	7.50	0.00	0.03	
* DEPARTMENT OF TRANSPORTATION										
AIRPORTS DIVISION										
HANA AIRPORT MASTER PLAN	HANA	KAWAIPAPA	60502	COMBINED	0	0.00	1.00	0.00	0.01	
KAHULUI AIRPORT ACCESS ROAD	CENTRAL	KAHULUI	60301	IRRIGATION	0	0.00	0.00	0.00	0.00	
KAHULUI AIRPORT MASTER PLAN	CENTRAL	KAHULUI	60301 GROUNDWATER	COMBINED	0	0.00	1270.00	0.09	0.40	
* DEPARTMENT OF TRANSPORTATION										
HARBORS DIVISION										
KAHULUI HARBOR - 2010 MASTER PLAN	CENTRAL	KAHULUI	60301 GROUNDWATER	COMBINED	0	0.00	23.70	0.04	0.09	
MAALAEA BOAT HARBOR	WAILUKU	WAIKAPU	60101 GROUNDWATER	POTABLE	251	0.08	0.00	0.00	0.08	

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HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF MOLOKAI										
* DEPARTMENT OF ACCOUNTING & GENERAL SERVICES KAUNAKAKAI CIVIC CENTER	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	POTABLE	0	0.00	4.40	0.01	0.00	
* DEPARTMENT OF AGRICULTURE PELEKUNU WATER SOURCE & STORAGE	NORTHEAST	PELEKUNU	40405 SURFACE	IRRIGATION	0	0.00	20000.00	140.00	12.50	IN COOPERATION WITH DHHL
REHABILITATE DHHL KALAE SURFACE SOURCE	CENTRAL	KUALAPUU	40203 SURFACE	IRRIGATION	0	0.00	0.00	0.00	0.20	
WAIKOLU W.E.L DEVELOPMENT - PHASE II	NORTHEAST	WAIKOLU	40403 GROUNDWATER	IRRIGATION	0	0.00	0.00	0.00	0.75	PROPOSED SOURCE FOR MOLOKAI IRRIGATION SYSTEM
* DEPARTMENT OF DEFENSE MOLOKAI ARMORY (OMS 4 KAUNAKAKAI)	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	POTABLE	24	0.00	0.00	0.00	0.00	
D-9 * DEPARTMENT OF HAWAIIAN HOME LANDS HOOLEHUA - FARM LOTS AIRPORT AREA	CENTRAL	MAUNAWAINUI	40202 GROUNDWATER	COMBINED	60	0.04	0.00	0.00	0.00	
HOOLEHUA - FARM LOTS NEW AREAS	CENTRAL	HOOLEHUA	40201 GROUNDWATER	COMBINED	39	0.02	0.00	0.00	0.00	
HOOLEHUA - FARM LOTS SCATTERED	CENTRAL	HOOLEHUA	40201 GROUNDWATER	COMBINED	24	0.01	0.00	0.00	0.00	
HOOLEHUA - PASTURE LOTS EXISTING	CENTRAL	HOOLEHUA	40201 GROUNDWATER	COMBINED	25	0.01	0.00	0.00	0.00	
HOOLEHUA - PASTURE LOTS NEW AREAS	CENTRAL	HOOLEHUA	40201 GROUNDWATER	COMBINED	20	0.01	0.00	0.00	0.00	
HOOLEHUA - RESIDENCE LOTS UNIT 1	CENTRAL	HOOLEHUA	40201 GROUNDWATER	POTABLE	21	0.01	0.00	0.00	0.00	
HOOLEHUA - RESIDENCE LOTS UNIT 2 & 3	CENTRAL	HOOLEHUA	40201 GROUNDWATER	POTABLE	63	0.04	0.00	0.00	0.00	
HOOLEHUA FARM LOTS - IRRIGATION	CENTRAL	MAUNAWAINUI	40202	IRRIGATION	0	0.00	10000.00	20.00	20.00	MOLOKAI IRRIGATION SYSTEM?
KALAMAULA - FARM LOTS	CENTRAL	KUALAPUU	40203 GROUNDWATER	COMBINED	65	0.04	0.00	0.00	0.00	
KALAMAULA - PASTURE LOTS UPPER AREAS	CENTRAL	KUALAPUU	40203 GROUNDWATER	COMBINED	10	0.01	0.00	0.00	0.00	
KALAMAULA - RESIDENCE LOTS	CENTRAL	KUALAPUU	40203 GROUNDWATER	POTABLE	128	0.08	0.00	0.00	0.00	
KALAMAULA - RESIDENCE LOTS NEW AREAS	CENTRAL	KUALAPUU	40203 GROUNDWATER	POTABLE	90	0.05	0.00	0.00	0.00	
KALAMAULA FARM LOTS - IRRIGATION	CENTRAL	KUALAPUU	40203	IRRIGATION	0	0.00	3500.00	7.00	7.00	
KALAMAULA PASTURE LOTS	CENTRAL	KUALAPUU	40203	PASTURE	0	0.00	1600.00	0.00	0.00	PASTURE DEMAND TO BE DETERMINED
KAPAAKEA - FARM LOTS	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	COMBINED	25	0.01	0.00	0.00	0.00	
KAPAAKEA - PASTURE LOTS	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	COMBINED	10	0.01	0.00	0.00	0.00	
KAPAAKEA - RESIDENCE LOTS	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	POTABLE	50	0.03	0.00	0.00	0.00	
KAPAAKEA - RESIDENCE LOTS ONE ALII	SOUTHEAST	KAMILOLOA	40301 GROUNDWATER	POTABLE	4	0.00	0.00	0.00	0.00	
* DEPARTMENT OF TRANSPORTATION MOLOKAI AIRPORT MASTER PLAN	CENTRAL	AIRPRTS DIVISION MAUNAWAINUI	40202 GROUNDWATER	COMBINED	0	0.00	288.00	0.00	0.20	
* DEPARTMENT OF TRANSPORTATION KAUNAKAKAI HARBOR - 2010 MASTER PLAN	SOUTHEAST	HARBORS DIVISION KAMILOLOA	40301 GROUNDWATER	COMBINED	0	0.00	4.40	0.00	0.01	
* DEPARTMENT OF UNIVERSITY OF HAWAII MOLOKAI APPLIED RESEARCH FARM	CENTRAL	AGRICULTURAL EXTENSION SERVICE HOOLEHUA	40210 SURFACE	IRRIGATION	0	0.00	0.00	0.00	0.06	MOLOKAI IRRIGATION SYSTEM

HAWAII WATER PLAN  
STATE PROJECTS PLAN  
INVENTORY OF PROPOSED STATE PROJECTS  
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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
** ISLAND OF OAHU										
* DEPARTMENT OF ACCOUNTING & GENERAL SERVICES										
KAPOLEI CIVIC CENTER	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	0	1.00	40.00	0.12	0.00	PROJECT AREA IS CURRENTLY IN SUGAR CANE
LILIHA CIVIC CENTER	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	0	1.00	5.60	0.02	0.00	WAREHOUSES CURRENTLY OCCUPY SITE
WAHIAWA CIVIC CENTER	CENTRAL	WAHIAWA	30501 GROUNDWATER	POTABLE	0	1.00	3.00	0.01	0.00	
WAIPAHU CIVIC CENTER	PEARL HARBOR	WAIPAHU	30203 GROUNDWATER	POTABLE	0	1.00	4.50	0.01	0.00	
* DEPARTMENT OF AGRICULTURE										
KAHUKU AGRICULTURAL PARK	WINDWARD	KOOLAULOA	30601 GROUNDWATER	COMBINED	25	1.01	780.00	3.90	2.00	PROPOSED STATE OPERATED SYSTEM
KAHUKU IRRIGATION SYSTEM (CONVERSION)	WINDWARD	KOOLAULOA	30601 GROUNDWATER	IRRIGATION	0	1.00	550.00	3.85	1.00	
LIVESTOCK AGRICULTURAL PARK	PEARL HARBOR	WAIPAHU	30203 GROUNDWATER	COMBINED	0	1.00	600.00	3.00	3.00	ALTERNATE SITE FOR LIVESTOCK AG PARK
REHABILITATE MAUNAWILI DITCH INTAKES	WINDWARD	WAIMANALO	30604 SURFACE	IRRIGATION	0	1.00	1000.00	7.00	3.00	
WAIANAЕ AGRICULTURAL PARK	WAIANAЕ	WAIANAЕ	30303 GROUNDWATER	COMBINED	17	1.01	150.00	0.75	0.38	
WAIMANALO AGRICULTURAL PARK	WINDWARD	WAIMANALO	30601 SURFACE WATER	IRRIGATION	20	1.01	196.00	0.98	0.98	WAIMANALO IRRIGATION SYSTEM & HONOLULU BWS
WAIMANALO WATERSHED PROJECT	WINDWARD	WAIMANALO	30604 SURFACE	IRRIGATION	0	1.00	0.00	0.00	3.00	IMPROVEMENT OF WAIMANALO IRRIGATION SYSTEM
* DEPARTMENT OF BUDGET & FINANCE										
HOUSING FINANCE & DEVELOPMENT CORP										
CROWN ELDERLY	PEARL HARBOR	WAIPAHU	30203 GROUNDWATER	POTABLE	109	1.05	0.00	0.00	0.00	TKM: 9-4-17:1
HALE MOHAU	PEARL HARBOR	WAIMALU	30201 GROUNDWATER	POTABLE	190	1.10	6.00	0.01	0.00	TKM: 9-7-19:35
ILANIWAI RENTALS	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	0	1.00	0.00	0.00	0.00	LISTED UNDER HCDA (KAKAАKO)
KAKAАKO ELDERLY - POHLANI	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	260	1.08	0.00	0.00	0.00	
KAKAАKO RENTAL - KAMAKEE VISTA	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	225	1.07	0.00	0.00	0.00	
KAPITOLANI COMMUNITY COLLEGE - RENT/LS	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	520	1.00	0.00	0.00	0.00	LISTED UNDER HCDA (KAKAАKO)
KAPOLEI MULTI FAMILY	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	488	1.20	0.00	0.00	0.00	
KAPOLEI PUBLIC HOUSING	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	264	1.11	0.00	0.00	0.00	
KAPOLEI VILLAGE	PEARL HARBOR	EWA	30204 GROUNDWATER	COMBINED	2737	1.37	0.00	0.00	0.00	TKM: 9-1-16:23 & POR. 25
KAPOLEI VILLAGE ELDERLY	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	660	1.33	0.00	0.00	0.00	
KAPOLEI VILLAGE RENTALS	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	428	1.21	0.00	0.00	0.00	
KAPOLEI WBE	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	181	1.09	0.00	0.00	0.00	
KAPUNA II	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	206	1.10	1.30	0.00	0.00	TKM: 1-6-07:67
KEYSTONE	WAIANAЕ	NANAKULI	30301 GROUNDWATER	POTABLE	400	1.20	52.00	0.13	0.00	TKM: 8-7-07:4 TKM: 8-7-33:14 & 19
LEILEHUA VILLAGE	CENTRAL	WAHIAWA	30501 GROUNDWATER	POTABLE	43	1.02	16.68	0.04	0.00	TKM: 7-4-12:10 & 12
LINEKONA RENTALS			30000 GROUNDWATER	POTABLE	200	1.08	0.00	0.00	0.00	VERIFY LOCATION
MAKAHA MEADOWS EAST II	WAIANAЕ	MAKAHA	30304 GROUNDWATER	POTABLE	4	1.00	0.12	0.00	0.00	TKM: 8-4-26
NA LEI HULU KUPUNA RENTALS			30000 GROUNDWATER	POTABLE	78	1.04	0.00	0.00	0.00	VERIFY LOCATION
PAWAA RENTAL	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	1250	1.38	0.00	0.00	0.00	
VETERANS OF FOREIGN WAR RENTALS			30000 GROUNDWATER	POTABLE	92	1.04	0.00	0.00	0.00	VERIFY LOCATION
VILLAGES OF KAPOLEI (EAST)	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	5000	2.50	1000.00	0.00	2.75	FUTURE EXPANSION OF KAPOLEI VILLAGE
WAHIAWA ELDERLY	CENTRAL	WAHIAWA	30501 GROUNDWATER	POTABLE	108	1.05	16.69	0.04	0.00	TKM: 7-4-12:10 & 12 (PORTION OF 16.69 ACRES)
WAIHOLE LEASE LOTS	WINDWARD	KOOLAPOK	30603 GROUNDWATER	COMBINED	123	1.06	0.00	0.00	0.00	VERIFY LOCATION
WAIMANALO SELF HELP	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	40	1.02	0.00	0.00	0.00	TKM 4-1-12:153,154,155 4-1-34:88,90,91
WHITMORE CIRCLE APARTMENTS	CENTRAL	WAHIAWA	30501 GROUNDWATER	POTABLE	44	1.02	2.09	0.01	0.00	

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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST (MG) BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM ALOHA TOWER DEVELOPMENT CORP										
ALOHA TOWER DEVELOPMENT	HONOLULU	KALIHI	30103 GROUNDWATER	COMBINED	0	0.00	0.00	0.00	0.61	
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM HAWAII COMMUNITY DEVELOPMENT AUTHORITY										
KAKAAKO REDEVELOPMENT PROJECT (OTHERS)	HONOLULU	NUUANU	30102 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	2.83	OTHER PROJECTS - NON-STATE)
KAKAAKO REDEVELOPMENT PROJECT (STATE)	HONOLULU	NUUANU	30102 GROUNDWATER	COMBINED	0	0.00	0.00	0.00	0.63	STATE PROJECTS
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM HIGH TECHNOLOGY DEVELOPMENT CORP										
MANOA INNOVATION CENTER	HONOLULU	PALOLO	30101 GROUNDWATER	POTABLE	0	0.00	3.10	0.01	0.00	
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM HONOLULU WATERFRONT PROJECT										
FISH PROCESSING CENTER (PIERS 35 & 16)	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	7.00	0.03	0.00	
INTERISLAND BARGE SERVICE FACILITY	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	32.90	0.13	0.00	
KAPALAMA CONTAINER YARD	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	53.00	0.21	0.00	
KAPALAMA DEPARTMENT OF AGRICULTURE FAC	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	1.50	0.01	0.00	RELOCATED FROM KAKAAKO
KAPALAMA FOOD DISTRIBUTION & WHOLESALE	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	13.40	0.05	0.00	RELOCATED FROM KAKAAKO
KAPALAMA FREIGHT FORWARDING & TRANSPORT	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	21.10	0.08	0.00	RELOCATED FROM KAKAAKO
MARINE EDUCATION & TRAINING CENTER	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	5.40	0.00	0.02	DRAFT MASTER PLAN - AVERAGE DEMAND 16,000 GPD
SAND ISLAND BOAT LAUNCH FACILITY	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	2.50	0.01	0.00	
SAND ISLAND CONTAINER YARD EXPANSION I	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	20.00	0.08	0.00	
SAND ISLAND CONTAINER YARD EXPANSION II	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	18.00	0.07	0.00	
SAND ISLAND CORPORATION YARD	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	26.20	0.00	0.11	EIS - 108,000 GPD
SAND ISLAND PARK EXPANSION	HONOLULU	KALIHI	30103 GROUNDWATER	POTABLE	0	0.00	53.00	0.00	0.22	EIS - 215,000 GPD
* DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM WAIKIKI CONVENTION CENTER AUTHORITY										
WAIKIKI INTERNATIONAL CONVENTION PLAZA	HONOLULU	PALOLO	30101 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.93	CONVENTION CENTER 14.4 AC @ 32000 COMMERCIAL 11.2 AC @ 24000, CONDO 900 UNITS @ 224
* DEPARTMENT OF DEFENSE										
HISTARC	HONOLULU	WAIALAE	30105 GROUNDWATER	POTABLE	269	0.02	0.00	0.00	0.00	
OAHU ARMORIES (4 SITES)	OAHU		30000 GROUNDWATER	POTABLE	680	0.04	0.00	0.00	0.00	
REGIONAL TRAINING SITE MAINTENANCE	PEARL HARBOR	WAIAWA	30202 GROUNDWATER	POTABLE	28	0.00	0.00	0.00	0.00	
WAIAWA ARMORY ADDITION/ALTERATION	CENTRAL	WAIAWA	30501 GROUNDWATER	POTABLE	265	0.02	0.00	0.00	0.00	
WAIAWA ARMORY	PEARL HARBOR	WAIAWA	30202 GROUNDWATER	POTABLE	313	0.02	0.00	0.00	0.00	
* DEPARTMENT OF DEFENSE										
		OFFICE OF VETERANS SERVICES								
HAWAII STATE VETERANS CEMETERY	WINDWARD	KOOLAUPOKO	30603 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.00	300 FIXTURE UNITS = 528 GPD
HAWAII STATE VETERANS CEMETERY	WINDWARD	KOOLAUPOKO	30603 GROUNDWATER	IRRIGATION	0	0.00	43.00	0.24	0.00	WELLS OWNED BY VETERANS CEMETERY
* DEPARTMENT OF EDUCATION										
EWA GENTRY ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHU	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
EWA MARINA ELEMENTARY SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
EWA PLAINS ELEMENTARY SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KAHUKU ELEMENTARY SCHOOL	WINDWARD	KOOLAULOA	30601 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	

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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
KAHUKU INTERMEDIATE SCHOOL	WINDWARD	KOOLAULO	30601 GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	
KALEIOPU ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	VERIFY LOCATION
KAMALE ELEMENTARY SCHOOL	WAIANA	WAIANA	30303 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KAPOLEI ELEMENTARY SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KAPOLEI HIGH SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	2000	0.12	0.00	0.00	0.00	
KAPOLEI II ELEMENTARY SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
KAPOLEI INTERMEDIATE SCHOOL	PEARL HARBOR	EWA	30204 GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	
WILILANI INTERMEDIATE SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	
WILILANI MAUKA ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WILILANI MAUKA II ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
NANAKULI/WALI ELEMENTARY SCHOOL	WAIANA	LUALUALEI	30302 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
ROYAL KUNIA ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIANA I ELEMENTARY SCHOOL	PEARL HARBOR	WAIANA	30202 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIANA II ELEMENTARY SCHOOL	PEARL HARBOR	WAIANA	30202 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIANA III ELEMENTARY SCHOOL	PEARL HARBOR	WAIANA	30202 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WAIANA INTERMEDIATE SCHOOL	PEARL HARBOR	WAIANA	30202 GROUNDWATER	POTABLE	1500	0.09	0.00	0.00	0.00	
WAIKELE ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
WEST LOCH ELEMENTARY SCHOOL	PEARL HARBOR	WAIPAHA	30203 GROUNDWATER	POTABLE	1000	0.06	0.00	0.00	0.00	
* DEPARTMENT OF HAWAIIAN HOME LANDS										
LUALUALEI - PAHEEHEE RIDGE	WAIANA	LUALUALEI	30302 GROUNDWATER	POTABLE	62	0.03	0.00	0.00	0.00	
LUALUALEI - PAHEEHEE/CARLOS (IRRIG)	WAIANA	LUALUALEI	30302	IRRIGATION	0	0.00	132.00	0.26	0.00	
LUALUALEI - RESERVOIR SITE	WAIANA	LUALUALEI	30302 GROUNDWATER	POTABLE	12	0.01	0.00	0.00	0.00	
LUALUALEI - RESIDENCE LOTS MATILILI	WAIANA	LUALUALEI	30302 GROUNDWATER	POTABLE	70	0.04	0.00	0.00	0.00	
NANAKULI - MASTER PLANS AREA	WAIANA	LUALUALEI	30302 GROUNDWATER	POTABLE	1000	0.60	0.00	0.00	0.00	
NANAKULI - RESIDENCE LOTS SCATTERED	WAIANA	NANAKULI	30301 GROUNDWATER	POTABLE	14	0.01	0.00	0.00	0.00	
NANAKULI - RESIDENCE LOTS SERIES 1-3	WAIANA	NANAKULI	30301 GROUNDWATER	POTABLE	53	0.03	0.00	0.00	0.00	
NANAKULI - RESIDENCE LOTS SERIES 4	WAIANA	NANAKULI	30301 GROUNDWATER	POTABLE	38	0.02	0.00	0.00	0.00	
NANAKULI - RESIDENCE LOTS SERIES 7-9	WAIANA	NANAKULI	30301 GROUNDWATER	POTABLE	168	0.10	0.00	0.00	0.00	
WAIANA - FARM LOTS CARLOS DAIRY	WAIANA	WAIANA	30303 GROUNDWATER	COMBINED	8	0.00	0.00	0.00	0.00	
WAIANA - RESIDENCE LOTS FREITAS DAIRY	WAIANA	WAIANA	30303 GROUNDWATER	POTABLE	135	0.08	0.00	0.00	0.00	
WAIANA - RESIDENCE LOTS UNIT 2A-2,3	WAIANA	WAIANA	30303 GROUNDWATER	POTABLE	121	0.07	0.00	0.00	0.00	
WAIMANALO - RESIDENCE LOTS ALA KOI ST	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	9	0.01	0.00	0.00	0.00	
WAIMANALO - RESIDENCE LOTS UNIT 1C-13	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	280	0.17	0.00	0.00	0.00	
WAIMANALO - RESIDENCE LOTS UNIT 8	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	56	0.03	0.00	0.00	0.00	
WAIMANALO - RESIDENCE LOTS UNIT 9	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	50	0.03	0.00	0.00	0.00	
* DEPARTMENT OF HUMAN SERVICES										
HAWAII HOUSING AUTHORITY										
CENTRAL OFFICE COMPLEX	HONOLULU	KALIHI	30103 GROUNDWATER	IRRIGATION	0	0.00	0.75	0.00	0.00	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
HALE LAULIMA HA 1-27	PEARL HARBOR	WAIMALU	30201 GROUNDWATER	IRRIGATION	0	0.00	1.56	0.00	0.00	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIALUA	NORTH	WAIALUA	30402 GROUNDWATER	POTABLE	50	0.03	10.38	0.03	0.00	TMC 6-7-01:13
WAIANA	WAIANA	WAIANA	30303 GROUNDWATER	POTABLE	50	0.03	7.00	0.02	0.00	TMC 8-5-02:28
WAIMAHA - SUNFLOWER HA 1-57	WAIANA	WAIANA	30303 GROUNDWATER	IRRIGATION	0	0.00	2.88	0.01	0.00	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIMANALO	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	25	0.01	0.00	0.00	0.00	

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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY JNIT (AGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
* DEPARTMENT OF HUMAN SERVICES											
OFFICE OF YOUTH SERVICES											
HAWAII YOUTH CORRECTIONAL FACILITY	WINDWRD	WAIMANALO	30604	SURFACE	POTABLE	1	.00	0.00	0.00	0.00	OBSERVATION AND ASSESSMENT JNIT
HAWAII YOUTH CORRECTIONAL FACILITY	WINDWRD	WAIMANALO	30604	SURFACE	POTABLE	1	.01	0.00	0.00	0.00	SECURE CUSTODY UNIT
* DEPARTMENT OF JUDICIARY											
OAHU FAMILY COURT & JV DETENTION CENTER	PEARL HARBOR	EWA	30204	GROUNDWATER	POTABLE	0	.00	0.00	0.00	0.00	PART OF KAPOLE: CIVIC CENTER
WAIKAWA DISTRICT COURT	CENTR/L	WAIKAWA	30501	GROUNDWATER	POTABLE	0	.00	0.00	0.00	0.00	PART OF WAIKAWA CIVIC CENTER
* DEPARTMENT OF LAND & NATURAL RESOURCES											
AQUACULTURE DEVELOPMENT PROGRAM											
CENTER FOR APPLIED AQUACULTURE	WINDWRD	WAIMANALO	30604	GROUNDWATER	COMBINED	0	.00	0.00	0.00	0.00	EXPANSION OF EXISTING FACILITY AT MAKAPUU
HAWAII TROPICAL AQUACULTURE CENTER (HUB)	WINDWRD	KAHANA	30602		AQUACULTURE	0	.00	22.00	0.00	0.72	HAKIPUU SITE - HUB FACILITY 500 GPM FRESH WATER SUPPLY
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF AQUATIC RESOURCES											
ANUENUE FISHERIES RESEARCH STATION	HONOLULU	KALIHI	30103	GROUNDWATER	POTABLE	0	.00	0.00	0.00	0.25	FACILITY ALSO USES SEA WATER WELL (REG'D WELL)
* DEPARTMENT OF LAND & NATURAL RESOURCES											
DIVISION OF WATER RESOURCES MANAGEMENT											
MOKULEIA EXPLORATORY WELL	NORTH	MOKULEIA	30401	GROUNDWATER	EXPLORATORY	0	.00	0.00	0.00	0.00	
WAIKAWA DITCH BULKHEAD PROJECT	WINDWRD	KAHANA	30602	GROUNDWATER	IRRIGATION	0	.00	0.00	0.00	0.00	
WAIKAWA MONITOR WELL	NORTH	WAIKAWA	30402	GROUNDWATER	MONITOR	0	.00	0.00	0.00	0.00	
* DEPARTMENT OF PUBLIC SAFETY											
MOANALUA											
HALAWA CORRECTIONAL FACILITY	HONOLULU	KALIHI	30103	GROUNDWATER	POTABLE	1074	.13	40.00	0.00	0.15	
OAHU COMMUNITY CORRECTIONAL FACILITY	HONOLULU	KALIHI	30103	GROUNDWATER	POTABLE	882	.11	14.00	0.00	0.15	
WAIKAWA CORRECTIONAL FACILITY - AGR	PEARL HARBOR	WAIKAWA	30202	SURFACE	IRRIGATION	150	.02	120.00	0.60	0.62	WAIKAWA IRRIGATION DITCH WATER
WOMEN'S COMMUNITY CORRECTIONAL CENTER	WINDWRD	WAIMANALO	30604	GROUNDWATER	POTABLE	96	.01	17.00	0.00	0.02	
* DEPARTMENT OF TRANSPORTATION											
AIRPORTS DIVISION											
HONOLULU INTERNATIONAL AIRPORT	HONOLULU	MOANALUA	30104	GROUNDWATER	COMBINED	0	.00	4500.00	0.00	2.74	INCLUDES 0.5 MGD FOR HICKAM AFB
* DEPARTMENT OF TRANSPORTATION											
HARBORS DIVISION											
BARBERS POINT HARBOR	PEARL HARBOR	EWA	30204	GROUNDWATER	COMBINED	0	.00	284.80	0.00	0.25	HONOLULU BWS HAS ALLOCATED 127,000 GPD FOR PROJECT BASED ON AREA
HONOLULU HARBOR - 2010 MASTER PLAN	HONOLULU	KALIHI	30103	GROUNDWATER	COMBINED	0	.00	286.00	0.00	0.31	
KEEHI LAGOON DEVELOPMENT	HONOLULU	MOANALUA	30104	GROUNDWATER	COMBINED	0	.00	0.00	0.00	1.08	ULTIMATE DEMAND BASED ON UTILITY MASTER PLAN FOR KEEHI LAGOON RECREATION DEVELOPMENT PLAN
* DEPARTMENT OF TRANSPORTATION											
HIGHWAYS DIVISION											
FORT WEAVER ROAD RENTON RD-HANAKAII ST	PEARL HARBOR	WAIKAWA	30203		IRRIGATION	0	.00	22.80	0.13	0.13	
FORT WEAVER ROAD LANDSCAPING	PEARL HARBOR	WAIKAWA	30203	GROUNDWATER	IRRIGATION	0	.00	24.50	0.14	0.14	FARRINGTON HIGHWAY TO RENTON ROAD
H-1 KUNIA INTERCHANGE LANDSCAPING	PEARL HARBOR	WAIKAWA	30203		IRRIGATION	0	.00	16.50	0.10	0.10	
H-1 PAIWA INTERCHANGE LANDSCAPING	PEARL HARBOR	EWA	30204		IRRIGATION	0	.00	9.30	0.06	0.06	
H-3 KANEIHE INTERCHANGE	WINDWRD	KOOLAUPOKO	30603		IRRIGATION	0	.00	115.00	0.40	0.40	
H-3 NORTH HALAWA VALLEY HWY UNIT 1A	PEARL HARBOR	WAIMALU	30201		IRRIGATION	0	.00	41.00	0.12	0.12	
H-3 NORTH HALAWA VALLEY HWY UNIT 1B	PEARL HARBOR	WAIMALU	30201		IRRIGATION	0	.00	35.00	0.10	0.10	

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PROJECT NAME	HYDROLOGIC SECTOR	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	NO. OF UNITS	EST DMD BY UNIT (MGD)	PROJECT AREA (AC)	EST DMD BY AREA (MGD)	AGENCY EST DMD (MGD)	REMARKS
H-3 NORTH HALAWA VALLEY HWY UNIT I	PEARL HARBOR	WAIMALU	30201	IRRIGATION	0	0.00	42.00	0.12	0.12	
KALANIANAOLE HWY - PH I	HONOLULU	WAIALAE	30105 GROUNDWATER	IRRIGATION	0	0.00	3.70	0.02	0.02	WAILUPE CIRCLE TO E. HALEMAUMAU ST
KALANIANAOLE HWY PH II	HONOLULU	WAIALAE	30105 GROUNDWATER	IRRIGATION	0	0.00	1.00	0.01	0.01	E. HALEMAUMAU ST. TO KULIOUOU ST.
KALANIANAOLE HWY PH III	HONOLULU	WAIALAE	30105 GROUNDWATER	IRRIGATION	0	0.00	1.30	0.01	0.01	KULIOUOU ST. TO KEAHOLE ST.
KAMEHAMEHA HWY LANDSCAPING PH II	NORTH	WAIALUA	30402 GROUNDWATER	IRRIGATION	0	0.00	16.20	0.09	0.09	WEED JCT. TO HALEIWA
KUNIA RD/FARRINGTON HWY INTERCHANGE	PEARL HARBOR	KUNIA	30205	IRRIGATION	0	0.00	13.00	0.09	0.09	
KUNIA ROAD LANDSCAPING	PEARL HARBOR	WAIPAHU	30203	IRRIGATION	0	0.00	7.60	0.04	0.04	H-1 TO FARRINGTON HWY
* DEPARTMENT OF UNIVERSITY OF HAWAII		AGRICULTURAL EXTENSION SERVICE								
PEARL CITY URBAN GARDEN CENTER	PEARL HARBOR	WAIAWA	30202 GROUNDWATER	IRRIGATION	0	0.00	0.00	0.00	0.01	
POAMOHU EXPERIMENT STATION (DOMESTIC)	CENTRAL	WAHIAWA	30501 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.03	
POAMOHU EXPERIMENT STATION (IRRIGATION)	CENTRAL	WAHIAWA	30501 SURFACE	IRRIGATION	0	0.00	0.00	0.00	0.08	
WAIALEE LIVESTOCK RESEARCH FARM	NORTH	KAWAILOA	30403 GROUNDWATER	DOMESTIC	0	0.00	0.00	0.00	0.34	LESS THAN .02 MGD FROM COUNTY BWS
WAIALEE LIVESTOCK RESEARCH FARM	NORTH	KAWAILOA	30403 GROUNDWATER	IRRIGATION	0	0.00	0.00	0.00	0.09	SPRING FED POND
WAIMANALO EXPERIMENT STATION (DOMESTIC)	WINDWARD	WAIMANALO	30604 GROUNDWATER	POTABLE	0	0.00	0.00	0.00	0.04	
WAIMANALO EXPERIMENT STATION (IRRIG)	WINDWARD	WAIMANALO	30604 SURFACE	IRRIGATION	0	0.00	0.00	0.00	0.02	WAIMANALO IRRIGATION SYSTEM
* DEPARTMENT OF UNIVERSITY OF HAWAII		WEST OAHU CAMPUS								
UNIVERSITY OF HAWAII - WEST OAHU CAMPUS	PEARL HARBOR		30200 GROUNDWATER	POTABLE	0	0.00	300.00	1.20	0.00	PLANNING PROCESS IS JUST BEGINNING

# **APPENDIX E**

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**LISTING OF PROJECTED WATER NEEDS BY STATE AGENCIES**



STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF ACCOUNTING & GENERAL SERVICES											
KAHULUI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	KAHULUI	60301	GROUNDWATER	POTABLE	1.0000	0.0131	0.0262	0.0262	0.0262	
WAHIANA CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	WAHIANA	30501	GROUNDWATER	POTABLE	1.0000	0.0032	0.0090	0.0090	0.0090	
WAIPAHU CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	WAIPAHU	30203	GROUNDWATER	POTABLE	1.0000	0.0135	0.0135	0.0135	0.0135	
LILIH CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	NUUANU	30102	GROUNDWATER	POTABLE	1.0000	0.0088	0.0168	0.0168	0.0168	WAREHOUSES CURRENTLY OCCUPY SITE
KAPOLEI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	EVA	30204	GROUNDWATER	POTABLE	1.0000	0.0360	0.0840	0.1200	0.1200	PROJECT AREA IS CURRENTLY IN SUGAR CANE
KAUNAKAKAI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	KAMILOLOA	40301	GROUNDWATER	POTABLE	1.0000	0.0066	0.0132	0.0132	0.0132	
KONA CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	KEAUHOU	80901	GROUNDWATER	POTABLE	1.0000	0.0450	0.0900	0.0900	0.0900	
* Substotal *						1.0000	0.1253	0.2527	0.2887	0.2887	
** Subtotal **						1.0000	0.1253	0.2527	0.2887	0.2887	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF AGRICULTURE											
WAIANAE AGRICULTURAL PARK	AGRICULTURE	WAIANAE	30303	GROUNDWATER	COMBINED	0.0000	0.3800	0.3800	0.3800	0.3800	
KAHUKU AGRICULTURAL PARK	AGRICULTURE	KOOLAULOA	30601	GROUNDWATER	COMBINED	0.0000	2.0000	2.0000	2.0000	2.0000	PROPOSED STATE OPERATED SYSTEM
WAIMANALO AGRICULTURAL PARK	AGRICULTURE	WAIMANALO	30601	SURFACE WATER	IRRIGATION	0.9800	0.9800	0.9800	0.9800	0.9800	WAIMANALO IRRIGATION SYSTEM ; HONOLULU BWS
PAHOA AGRICULTURAL PARK PHASE I	AGRICULTURE	PAHOA	80801	GROUNDWATER	COMBINED	2.0500	2.0500	2.0500	2.0500	2.0500	
PAHOA AGRICULTURAL PARK PHASE II	AGRICULTURE	PAHOA	80801	GROUNDWATER	COMBINED	0.9450	0.9450	0.9450	0.9450	0.9450	
PANAENEA AGRICULTURAL PARK	AGRICULTURE	H.I.O	80401	GROUNDWATER	COMBINED	2.3000	2.3000	2.3000	2.3000	2.3000	
LIVESTOCK AGRICULTURAL PARK	AGRICULTURE	WAIAPAHI	30203	GROUNDWATER	COMBINED	0.0000	3.0000	3.0000	3.0000	3.0000	ALTERNATE SITE FOR LIVESTOCK AG PARK
KE-AHOLE AGRICULTURAL PARK PHASE I	AGRICULTURE	KEAUAHOU	80901	GROUNDWATER	COMBINED	0.3250	0.3250	0.3250	0.3250	0.3250	
KE-AHOLE AGRICULTURAL PARK PHASE II	AGRICULTURE	KEAUAHOU	80901	GROUNDWATER	COMBINED	0.5700	0.5700	0.5700	0.5700	0.5700	
WAILUA AGRICULTURAL PARK	AGRICULTURE	WAILUA	20103	SURFACE WATER	IRRIGATION	0.0000	0.5000	1.0000	1.0000	1.0000	ALTERNATE SITE FOR KAUAI AG PARK
MOLOAAI AGRICULTURAL PARK	AGRICULTURE	AAHOLA	20104	GROUNDWATER	IRRIGATION	0.0000	1.9000	3.8000	3.8000	3.8000	ALTERNATE SITE FOR KAUAI AG PARK
WAIHEA AGRICULTURAL PARK - LALAMILU ADD	AGRICULTURE	WAIHEA	80301	SURFACE WATER	IRRIGATION	0.0000	0.0000	0.0000	0.4075	0.8150	
REHABILITATE DHHL KALAE SURFACE SOURCE	AGRICULTURE	KUALAPUU	40203	SURFACE	IRRIGATION	0.0000	0.2000	0.2000	0.2000	0.2000	
KAHUKU IRRIGATION SYSTEM (CONVERSION)	AGRICULTURE	KOOLAULOA	30601	GROUNDWATER	IRRIGATION	0.5000	1.0000	1.0000	1.0000	1.0000	
REHABILITATE MAUNAWILI DITCH INTAKES	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION	1.8000	1.8000	2.4000	3.0000	3.0000	
LIVESTOCK FEED LOT & RENDERING FACILITY	AGRICULTURE	K.HOLO	80902	GROUNDWATER	POTAB.E	0.0000	0.5000	0.5000	0.5000	0.5000	ALTERNATE SITE FOR LIVESTOCK AG PARK
REHABILITATE UPPER HAAKUA DITCH INTAKES	AGRICULTURE	WAIHEA	80301	SURFACE	IRRIGATION	2.1150	2.1150	4.7000	4.7000	4.7000	
PELEKUNU WATER SOURCE & STORAGE	AGRICULTURE	PELEKUNU	40405	SURFACE	IRRIGATION	0.0000	0.0000	0.0000	9.3750	12.5000	IN COOPERATION WITH DHHL
LANAI AGRICULTURAL PARK	AGRICULTURE	LEEWARD	50102	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.0000	0.2500	0.5000	
HAAKUA AGRICULTURAL PARK	AGRICULTURE	HONOKAA	80201	SURFACE	IRRIGATION	0.0000	1.5000	1.5000	1.5000	1.5000	
KEALII AGRICULTURAL PARK	AGRICULTURE	AAHOLA	20104	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
HANAPEPE AGRICULTURAL PARK	AGRICULTURE	MAKAWALI	20303	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
WAIHEA AGRICULTURAL PARK	AGRICULTURE	KEKAHA	20301	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
NORTH KOHALA FARM LOTS	AGRICULTURE	HAWI	80101	SURFACE	IRRIGATION	0.0000	0.0000	3.7500	3.7500	3.7500	GOVERNOR'S AGRICULTURE COORDINATING COMMITTEE
WEST HAWAII LIVESTOCK FEEDLOT	AGRICULTURE	K.HOLO	80902	GROUNDWATER	POTAB.E	0.0000	0.5000	0.5000	0.5000	0.5000	ALTERNATE SITE FOR LIVESTOCK AG PARK
UPPER HAAKUA DITCH IMPROVEMENTS	AGRICULTURE	WAIHEA	80301	SURFACE	IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF WAIHEA IRRIGATION SYSTEM IMPROVEMENTS
PANAENEA AGRICULTURAL PROCESSING FACILITY	AGRICULTURE	KEAAU	80402	GROUNDWATER	POTAB.E	0.0000	0.0000	0.0001	0.0001	0.0001	VERIFY PROJECT SCHEDULE
KEAHOE AGRICULTURAL PROCESSING FACILITY	AGRICULTURE	AAHEHOOMALU	80701	GROUNDWATER	POTAB.E	0.0000	0.0010	0.0010	0.0010	0.0010	3 AC @ 250 GPD +/- UNITS @125 GPD
PUU KAPU SHALLOW WELL DEVELOPMENT	AGRICULTURE	WAIHEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.5000	0.5000	0.5000	PART OF WAIHEA IRRIGATION SYSTEM IMPROVEMENTS
PUU KAPU DEEP WELL DEVELOPMENT	AGRICULTURE	WAIHEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.7500	0.7500	0.7500	0.7500	PART OF WAIHEA IRRIGATION SYSTEM IMPROVEMENTS
WAIHEA-PAUJULO WATERSHED PROJECT	AGRICULTURE	WAIHEA	80301	SURFACE	IRRIGATION	2.0000	2.5000	2.5000	3.0000	4.0000	IN COOPERATION WITH DHHL
WAIKOLU WELL DEVELOPMENT - PHASE II	AGRICULTURE	WAIKOLU	40403	GROUNDWATER	IRRIGATION	0.0000	0.7500	0.7500	0.7500	0.7500	PROPOSED SOURCE FOR MOLOKAI IRRIGATION SYSTEM
WAIMANALO WATERSHED PROJECT	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION	1.2000	1.5000	1.7499	1.7499	1.7499	IMPROVEMENT OF WAIMANALO IRRIGATION SYSTEM
* Subtotal *						14.7850	30.316	42.6510	53.7835	58.8162	
** Subtotal **						14.7850	30.316	42.6510	53.7835	58.8162	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ. DMD (MGD)	PROJ. DMD (MGD)	PROJ. DMD (MGD)	PROJ. DMD (MGD)	PROJ. DMD (MGD)	
** DEPARTMENT OF BUDGET & FINANCE											
* HOUSING FINANCE & DEVELOPMENT CORP											
WAIHOLE LEASE LOTS	BUDGET & FINANCE	KOOLAUPOKO	30603	GROUNDWATER	COMBINED	0.0000	0.0615	0.0615	0.0615	0.0615	VERIFY LOCATION
MAKAHA MEADOWS EAST II	BUDGET & FINANCE	MAKAHA	30304	GROUNDWATER	POTABLE	0.0000	0.0020	0.0020	0.0020	0.0020	TKM: 8-4-26
PUHI	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0065	0.0065	0.0065	0.0065	TKM: 3-3-07:2
PIIHONIA MEADOWS	BUDGET & FINANCE	HILLO	80401	GROUNDWATER	POTABLE	0.0000	0.0327	0.0327	0.0327	0.0327	TKM: 2-5-10:PCR. 1
CLIFFSIDE AT HANAPEPE	BUDGET & FINANCE	MACANELI	20303	GROUNDWATER	POTABLE	0.1530	0.2550	0.2550	0.2550	0.2550	TKM: 1-8-07:PCR. 3 & 18
KAPUNA II	BUDGET & FINANCE	KA'IHI	30103	GROUNDWATER	POTABLE	0.1030	0.1030	0.1030	0.1030	0.1030	TKM: 1-6-07:87
KAPOLEI VILLAGE	BUDGET & FINANCE	EWA	30204	GROUNDWATER	COMBINED	0.0750	0.6320	1.3685	1.3685	1.3685	TKM: 9-1-16:23 & POR. 25
MILOLOI SELF-HELP PROGRAM	BUDGET & FINANCE	KAPUNA	80602	GROUNDWATER	POTABLE	0.0000	0.1470	0.1470	0.1470	0.1470	TKM: 8-9-04:7, 21 & 22
KEALAKHE PLANNED COMMUNITY - PHASE I	BUDGET & FINANCE	KEAUHOU	80901	GROUNDWATER	POTABLE	0.0000	0.2700	0.2700	0.2700	0.2700	TKM: 7-4-08:PCR. 17, TKM: 7-4-19:PCR. 43
LEILEHA VILLAGE	BUDGET & FINANCE	WAI'ANA	30501	GROUNDWATER	POTABLE	0.0000	0.0417	0.0417	0.0417	0.0417	TKM: 7-4-12:1C & 12
KEYSTONE	BUDGET & FINANCE	HANAKULI	30301	GROUNDWATER	POTABLE	0.0400	0.2000	0.2000	0.2000	0.2000	TKM: 8-7-07:4
WAI'EHU ELDERLY	BUDGET & FINANCE	IAO	60102	GROUNDWATER	POTABLE	0.0000	0.0210	0.0210	0.0210	0.0210	TKM: 0.1470 (WAI'EHU TERRACE, INCR. A, PHASE III)
KAUAI RENTAL	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0500	0.0500	0.0500	0.0500	0.0500	VERIFY LOCATION
CROWN ELDERLY	BUDGET & FINANCE	KAUPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0545	0.0545	0.0545	0.0545	TKM: 9-4-17:1
KEALAKHE PLANNED COMMUNITY (LA'I'OPIUA)	BUDGET & FINANCE	KEAUHOU	80901	GROUNDWATER	POTABLE	0.7000	1.4000	2.1000	2.8000	3.5000	TKM: 7-4-08:3 & 17 (VERIFY)
WAI'ANA ELDERLY	BUDGET & FINANCE	WAI'ANA	30501	GROUNDWATER	POTABLE	0.0000	0.0540	0.0540	0.0540	0.0540	TKM: 7-4-12:1C & 12 (PORTION OF 16.69 ACRES)
HANAMAULU	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.1548	0.2064	0.2064	0.2064	TKM: 3-7-03:20
HONOKOWAI RENTAL	BUDGET & FINANCE	HONOKOWAI	60203	GROUNDWATER	POTABLE	0.0000	0.1104	0.1104	0.1104	0.1104	TKM: 4-4-02:PCR. 37
KAPOLEI VILLAGE RENTALS	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0856	0.2140	0.2140	0.2140	
WAILUA MAUKA	BUDGET & FINANCE	WAILUA	20103	GROUNDWATER	POTABLE	0.0000	0.2402	0.9606	0.9606	0.9606	TKM: 3-9-02:12
KAKAAKO RENTAL - KAKAAKO VISTA	BUDGET & FINANCE	NU'UANU	30102	GROUNDWATER	POTABLE	0.0000	0.0135	0.0338	0.0675	0.0675	
HALE NAMA OLAMA	BUDGET & FINANCE	HILLO	80401	GROUNDWATER	POTABLE	0.0000	0.0378	0.0378	0.0378	0.0378	TKM: 2-4-01:158
LALAMUI/UPPER	BUDGET & FINANCE	WA'IEA	80301	GROUNDWATER	POTABLE	0.0000	0.1800	0.3000	0.3000	0.3000	TKM: 6-6-01:PCR. 2
KAUAI ELDERLY	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0250	0.0250	0.0250	0.0250	VERIFY LOCATION
KAPOLEI VILLAGE ELDERLY	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.1100	0.3300	0.3300	0.3300	
HANAII COMMUNITY COLLEGE	BUDGET & FINANCE	HILLO	80401	GROUNDWATER	POTABLE	0.0000	0.0016	0.0020	0.0020	0.0020	TKM: 2-4-26:47
MOLOKAI PROJECT	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0000	0.5910	0.5910	0.5910	TKM: 3-6-02:
WAILUA MAKAI	BUDGET & FINANCE	WAILUA	20103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1250	0.1250	0.1250	TKM: 3-9-06:9, SEE FACT SHEET KAUAI COUNTY HOUSING
WELI'WELI PROJECT	BUDGET & FINANCE	KO'LOA	20101	GROUNDWATER	POTABLE	0.0000	0.0000	0.1983	0.1983	0.1983	TKM: 2-8-72:6
HALE MAHALU	BUDGET & FINANCE	WAIMALU	30201	GROUNDWATER	POTABLE	0.0000	0.0950	0.0950	0.0950	0.0950	TKM: 9-7-19:35
KAKAAKO ELDERLY - POHILANI	BUDGET & FINANCE	NU'UANU	30102	GROUNDWATER	POTABLE	0.0000	0.0780	0.0780	0.0780	0.0780	
WHITMOPE CIRCLE APARTMENTS	BUDGET & FINANCE	WAI'ANA	30501	GROUNDWATER	POTABLE	0.0000	0.0176	0.0176	0.0176	0.0176	
WAIMANALO SELF HELP	BUDGET & FINANCE	WAIMANALO	30604	GROUNDWATER	POTABLE	0.0000	0.0200	0.0200	0.0200	0.0200	TKM 4-1-12:153,154,155 4-1-34:88,90,91
PANAMA RENTAL	BUDGET & FINANCE	NU'UANU	30102	GROUNDWATER	POTABLE	0.0000	0.1500	0.3750	0.3750	0.3750	
LINEKONA RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0000	0.0800	0.0800	0.0800	VERIFY LOCATION
VETERANS OF FOREIGN WAI RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0000	0.0368	0.0368	0.0368	VERIFY LOCATION
MILOLOI SELF HELP - REITAL	BUDGET & FINANCE	KAPUNA	80602	GROUNDWATER	POTABLE	0.0000	0.0068	0.0068	0.0068	0.0068	
NA LEI HULU KUPUNA RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0390	0.0390	0.0390	0.0390	VERIFY LOCATION
WAI'EHU STATE LAND B&C	BUDGET & FINANCE	IAO	60102	GROUNDWATER	POTABLE	0.0000	0.2904	0.2904	0.2904	0.2904	TKM 3-3-01:10
KAPOLEI PUBLIC HOUSING	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0845	0.1056	0.1056	0.1056	
ILANI'WAI RENTALS	BUDGET & FINANCE	NU'UANU	30102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	LISTED UNDER KODA (KAKAAKO)

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
WAIJALU MULTI FAMILY	BUDGET & FINANCE		60000	GROUNDWATER	POTABLE	0.0000	0.0512	0.0512	0.0512	0.0512	VERIFY LOCATION
LAHAINA MASTER PLAN	BUDGET & FINANCE	LAWIPOKO	60204	GROUNDWATER	POTABLE	0.0000	0.2387	0.8246	1.4973	2.1700	AGENCY ESTIMATE BASED ON 80 GPCD WATER CONSUMPTION
KAPOLEI MULTI FAMILY	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.1952	0.1952	0.1952	0.1952	
KAPOLEI WBE	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0905	0.0905	0.0905	
KAUAI MASTER PLAN	BUDGET & FINANCE		20000	GROUNDWATER	POTABLE	0.0000	0.0000	0.3000	0.8500	1.0000	VERIFY LOCATION
KAPOLANI COMMUNITY COLLEGE - RENTALS	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	LISTED UNDER HCDA (KAKAAKO)
VILLAGES OF KAPOLEI (EAST)	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	1.3750	2.7500	FUTURE EXPANSION OF KAPOLEI VILLAGE
* Subtotal *						1.1210	5.5562	10.5074	13.6388	16.7365	
** Subtotal **						1.1210	5.5562	10.5074	13.6388	16.7365	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1991	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF BUSINESS ECONOMIC DEVELOPMENT & TOURISM											
* ALOHA TOWER DEVELOPMENT CORP ALOHA TOWER DEVELOPMENT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	COMBINED	0.1225	0.538E	0.6123	0.6123	0.6123	
* Substtotal *						0.1225	0.538E	0.6123	0.6123	0.6123	
* BUSINESS DEVELOPMENT & MARKETING SPACE LAUNCH FACILITY - PALIMA POINT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KIAIWA	80804		COMBINED	0.0000	0.0000	0.1600	0.1600	0.1600	PALIMA PT. - RECOMMENDED SITE
* Substtotal *						0.0000	0.0000	0.1600	0.1600	0.1600	
* HAWAII COMMUNITY DEVELOPMENT AUTHORITY KAKAAKO REDEVELOPMENT PROJECT (STATE)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	NUUANU	30102	GROUNDWATER	COMBINED	0.0000	0.3120	0.4580	0.5430	0.6280	STATE PROJECTS
KAKAAKO REDEVELOPMENT PROJECT (OTHER)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.5335	1.4769	2.1501	2.8250	OTHER PROJECTS (NON-STATE)
* Substtotal *						0.0000	0.8455	1.9349	2.6931	3.4530	
* HIGH TECHNOLOGY DEVELOPMENT CORP HAWAII OCEAN SCIENCE & TECHNOLOGY PARK MANOA INNOVATION CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KEAUHOU	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.3900	0.3900	0.3900	
MAUI RESEARCH & TECHNOLOGY CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALOLO	30101	GROUNDWATER	POTABLE	0.0000	0.0124	0.0124	0.0124	0.0124	
* Substtotal *						0.0000	0.0300	0.0300	0.0300	0.0300	KIHEI
* Substtotal *						0.0000	0.0424	0.4324	0.4324	0.4324	
* HONOLULU WATERFRONT PROJECT MARINE EDUCATION & TRAINING CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0200	0.0200	0.0200	DRAFT MASTER PLAN - AVERAGE DEMAND 18,000 GPD
SAND ISLAND BOAT LAUNCH FACILITY	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
SAND ISLAND CORPORATE YARD	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1100	0.1100	0.1100	EIS - 108,000 GPD
SAND ISLAND PARK EXPANSION	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.2200	0.2200	0.2200	0.2200	EIS - 215,000 GPD
SAND ISLAND CONTAINER YARD EXPANSION I	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0800	0.0800	0.0800	
SAND ISLAND CONTAINER YARD EXPANSION II	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0360	0.0720	
KAPALAMA CONTAINER YARD	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.2120	0.2120	0.2120	
KAPALAMA FOOD DISTRIBUTION & WHOLESALE	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0268	0.0536	0.0536	0.0536	RELOCATED FROM KAKAAKO
KAPALAMA FREIGHT FORWARDING & TRANSPORT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0844	0.0844	0.0844	RELOCATED FROM KAKAAKO
KAPALAMA DEPARTMENT OF AGRICULTURE FAC	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0030	0.0060	0.0060	0.0060	RELOCATED FROM KAKAAKO
INTER-ISLAND BARGE SERVICE FACILITY	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1316	0.1316	0.1316	
FISH PROCESSING CENTER (PIERS 35 & 34)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0280	0.0280	0.0280	0.0280	
* Substtotal *						0.0000	0.2876	0.9556	0.9916	1.0276	
* NATURAL ENERGY LABORATORY OF HAWAII NATURAL ENERGY LABORATORY OF HAWAII	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KEAUHOU	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.1200	0.1200	0.1200	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ. DMD (MGD)	1995 PROJ. DMD (MGD)	2000 PROJ. DMD (MGD)	2005 PROJ. DMD (MGD)	2010 PROJ. DMD (MGD)	REMARKS
* Subtotal *						0.0000	0.0000	0.1200	1.1200	0.1200	
* WAIKIKI CONVENTION CENTER AUTHORITY WAIKIKI INTERNATIONAL CONVENTION PLAZA	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	PALOLO	30101	GROUNDWATER	POTABLE	0.0000	0.0000	0.9300	1.9300	0.9300	CONVENTION CENTER 14.4 AC @ 32000
* Subtotal *						0.0000	0.0000	0.9300	1.9300	0.9300	
** Subtotal **						0.1225	1.7149	5.1452	5.9394	6.7353	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF DEFENSE											
OLAA ARMORY	DEFENSE	KEAAU	80402	GROUNDWATER	POTABLE	.0043	0.0061	0.0061	0.0061	0.0061	
WAIANA ARMORY	DEFENSE	WAIANA	30202	GROUNDWATER	POTABLE	.0158	0.0188	0.0188	0.0188	0.0188	
WAIANA ARMORY ADDITION/ALTERATION	DEFENSE	WAIANA	30501	GROUNDWATER	POTABLE	.0114	0.0159	0.0159	0.0159	0.0159	
HISTARC	DEFENSE	WAIALAE	30105	GROUNDWATER	POTABLE	.0147	0.0161	0.0161	0.0161	0.0161	
MAUI CONSOLIDATED FACILITIES	DEFENSE	KAHULUI	60301	GROUNDWATER	POTABLE	.0000	0.0000	0.0185	0.0185	0.0185	
KEALAKEKUA ARMORY	DEFENSE	KEALAKEKUA	80603	GROUNDWATER	POTABLE	.0057	0.0082	0.0082	0.0082	0.0082	
KOHALA ARMORY	DEFENSE	WAIHANA	80102	GROUNDWATER	POTABLE	.0014	0.0021	0.0021	0.0021	0.0021	
PAHALA ARMORY	DEFENSE	MAALEHU	80503	GROUNDWATER	POTABLE	.0016	0.0021	0.0021	0.0021	0.0021	
REGIONAL TRAINING SITE MAINTENANCE	DEFENSE	WAIANA	30202	GROUNDWATER	POTABLE	.0000	0.0017	0.0017	0.0017	0.0017	
OAHU ARMORIES (4 SITS)	DEFENSE		30000	GROUNDWATER	POTABLE	.0000	0.0000	0.0408	0.0408	0.0408	
MOLOKAI ARMORY (ONS 4 KAUNAKAKAI)	DEFENSE	KAMILOLOA	40301	GROUNDWATER	POTABLE	.0011	0.0014	0.0014	0.0014	0.0014	
* Substtotal *						.0560	0.0724	0.1317	0.1317	0.1317	
* OFFICE OF VETERANS SERVICES											
HAWAII STATE VETERANS CEMETERY	DEFENSE	KOOLAUPOKO	30603	GROUNDWATER	IRRIGATION	.0000	0.2399	0.2399	0.2399	0.2399	WELLS OWNED BY VETERANS CEMETERY
HAWAII STATE VETERANS CEMETERY	DEFENSE	KOOLAUPOKO	30603	GROUNDWATER	POTABLE	.0000	0.0005	0.0005	0.0005	0.0005	300 FIXTURE UNITS = 528 GPD
* Substtotal *						.0000	0.2404	0.2404	0.2404	0.2404	
** Subtotal **						.0560	0.3128	0.3721	0.3721	0.3721	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE	TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1991 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** DEPARTMENT OF EDUCATION												
KAHUKU ELEMENTARY SCHOOL	EDUCATION	KOOLAULO	30801	GROUNDWATER	POTAB.E		0.0600	0.0600	0.0600	0.0600	0.0600	
NAHIKOA ELEMENTARY SCHOOL	EDUCATION	LAUNIPOKO	60204	GROUNDWATER	POTAB.E		0.0600	0.0600	0.0600	0.0600	0.0600	
KALEIPIU ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0600	0.0600	0.0600	0.0600	0.0600	VERIFY LOCATION
KAMAII ELEMENTARY SCHOOL	EDUCATION	WAIANAE	30303	GROUNDWATER	POTAB.E		0.0600	0.0600	0.0600	0.0600	0.0600	
MAUI-MAENA INTERMEDIATE SCHOOL	EDUCATION	KAHULUI	60301	GROUNDWATER	POTAB.E		0.0900	0.0900	0.0900	0.0900	0.0900	
KING KAMUALIII ELEMENTARY SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTAB.E		0.0600	0.0600	0.0600	0.0600	0.0600	
NEW KONAWAENA ELEMENTARY SCHOOL	EDUCATION	KEALAKEKUA	80603	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
EWA GENTRY ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
UPCOUNTRY HIGH SCHOOL	EDUCATION	MAKAWAO	60303		POTAB.E		0.0000	0.1200	0.1200	0.1200	0.1200	
MILILANI MAUKA ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
MILILANI MAUKA II ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
WEST COCH ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KAPOLII ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KAPOLII INTERMEDIATE SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0900	0.0900	0.0900	
KAPOLII HIGH SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.1200	0.1200	
WAIKOLA ELEMENTARY SCHOOL	EDUCATION	WAIKOLA	80301		POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KEEAU ELEMENTARY SCHOOL	EDUCATION	KEEAU	80402	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KIHEI II ELEMENTARY SCHOOL	EDUCATION	KAMAOLE	60304	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KAPAA INTERMEDIATE SCHOOL	EDUCATION	ANAHOLA	20104	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0900	0.0900	0.0900	
KAPAA II ELEMENTARY SCHOOL	EDUCATION	ANAHOLA	20104	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KEONEPOKO ELEMENTARY SCHOOL	EDUCATION	PAHOA	80801	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KEALAEHE HIGH SCHOOL	EDUCATION	KEAUHOU	80901	GROUNDWATER	POTAB.E		0.0000	0.1200	0.1200	0.1200	0.1200	
MAUI LANI ELEMENTARY SCHOOL	EDUCATION	INO	60102	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
HANAKULI/MAILI ELEMENTARY SCHOOL	EDUCATION	LJALUALEI	30302	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
ROYAL KUNIA ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KEALAEHE II ELEMENTARY SCHOOL	EDUCATION	KEAUHOU	80901	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
LAHAINA III ELEMENTARY SCHOOL	EDUCATION	HONOKOWAI	60203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
WAILUHU II ELEMENTARY SCHOOL	EDUCATION	INO	60102	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KAUAI INTERMEDIATE SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0900	0.0900	0.0900	
KAPOLII II ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
WAIKEKE ELEMENTARY SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
WAIANA INTERMEDIATE SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0900	0.0900	0.0900	
NEW MAUI INTERMEDIATE SCHOOL	EDUCATION		60000		POTAB.E		0.0000	0.0900	0.0900	0.0900	0.0900	VERIFY LOCATION
LAHAINA IV ELEMENTARY SCHOOL	EDUCATION	HONOKOWAI	60203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
LIHUE/PUHI ELEMENTARY SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
MILILANI INTERMEDIATE SCHOOL	EDUCATION	WAIPAHU	30203	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0900	0.0900	0.0900	
EWA PLAINS ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
EWA MARINA ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
WAIANA I ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
KEEAU HIGH SCHOOL	EDUCATION	KEEAU	80402	GROUNDWATER	POTAB.E		0.0000	0.0600	0.1200	0.1200	0.1200	
WAIKOLA UKA ELEMENTARY SCHOOL	EDUCATION	HILO	80401	GROUNDWATER	POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	
HOUAULOGA/KAHAKAI ELEMENTARY SCHOOL	EDUCATION		80000		POTAB.E		0.0000	0.0600	0.0600	0.0600	0.0600	LOCATION NOT YET DETERMINED



STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTINGS OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
WAIANA II ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
WAIANA III ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
KAHUKU INTERMEDIATE SCHOOL	EDUCATION	KOOLAULOA	30601	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
KAWAIHAE I ELEMENTARY SCHOOL	EDUCATION	KAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	WITHIN DHHL PROJECT
KAWAIHAE II ELEMENTARY	EDUCATION	KAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	WITHIN DHHL PROJECTS
KAWAIHAE III ELEMENTARY	EDUCATION	KAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	WITHIN DHHL PROJECTS
KAWAIHAE/MAIKOLOA INTERMEDIATE SCHOOL	EDUCATION	KAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0900	0.0900	EITHER IN DHHL PROJECTS OR AT MAIKOLOA
WAIHEA ELEMENTARY SCHOOL	EDUCATION	WAIHEA	80301	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
HONOKAA ELEMENTARY SCHOOL	EDUCATION	HONOKAA	80201	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	
* Subtotal *						0.3900	0.9900	2.6700	3.5700	3.5700	
** Subtotal **						0.3900	0.9900	2.6700	3.5700	3.5700	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** DEPARTMENT OF HAWAIIAN HOME LANDS											
MOLOAA - PASTURE LOTS	HAWAIIAN HOME LANDS	AAHOLA	20104		COMBINED	0.0000	0.0000	0.0040	0.0040	0.0040	
KEKAHA - RESIDENCE LOTS UNIT 2	HAWAIIAN HOME LANDS	KEKAHA	20301		POTAB.E	0.0105	0.0105	0.0105	0.0105	0.0105	
AAHOLA - RESIDENCE LOTS UNIT 3	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0180	0.0180	0.0180	0.0180	0.0180	
MOLOAA - FARM LOTS	HAWAIIAN HOME LANDS	AAHOLA	20104		COMBINED	0.0000	0.0000	0.0100	0.0100	0.0100	
WAIANAE - RESIDENCE LOTS UNIT 2A-2,3	HAWAIIAN HOME LANDS	WAIANAE	30303	GROUNDWATER	POTAB.E	0.0000	0.0726	0.0726	0.0726	0.0726	
NAKAKULI - RESIDENCE LOTS SERIES 6	HAWAIIAN HOME LANDS	NAKAKULI	30301	GROUNDWATER	POTAB.E	0.0228	0.0228	0.0228	0.0228	0.0228	
NAKAKULI - RESIDENCE LOTS SERIES 5-3	HAWAIIAN HOME LANDS	NAKAKULI	30301	GROUNDWATER	POTAB.E	0.0000	0.0318	0.0318	0.0318	0.0318	
WAIMANALO - RESIDENCE LOTS UNIT 8	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNDWATER	POTAB.E	0.0000	0.0336	0.0336	0.0336	0.0336	
KULA - RESIDENCE LOTS WAIHOLI 1, 2	HAWAIIAN HOME LANDS	KUMAOLE	60304	SURFACE	POTAB.E	0.0000	0.0000	0.1848	0.1848	0.1848	
KAHIKUNUI - LIVESTOCK	HAWAIIAN HOME LANDS	LUALAILUA	60603	GROUNDWATER	LIVESTOCK	0.0100	0.0100	0.0100	0.0100	0.0100	MAUI FACTORS STOCKWATER WELL - 1760 PPM SALINE
WAIHEA - RESIDENCE LOTS	HAWAIIAN HOME LANDS	IJO	60102	GROUNDWATER	POTAB.E	0.0375	0.0375	0.0375	0.0375	0.0375	TKM 3-2-13:8
PAUKUKALO - RESIDENCE LOTS UNIT 4	HAWAIIAN HOME LANDS	IJO	60102		POTAB.E	0.0000	0.0084	0.0084	0.0084	0.0084	
HOOLEHUA - RESIDENCE LOTS UNIT 1	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	POTAB.E	0.0000	0.0126	0.0126	0.0126	0.0126	
KALAMAPUA - RESIDENCE LOTS	HAWAIIAN HOME LANDS	KUALAPUU	40203	GROUNDWATER	POTAB.E	0.0000	0.0000	0.0768	0.0768	0.0768	
KAPAAHEA - RESIDENCE LOTS ONE ALII	HAWAIIAN HOME LANDS	KAMILOLOA	40301	GROUNDWATER	POTAB.E	0.0000	0.0024	0.0024	0.0024	0.0024	
HUMUOLA - PASTURE LOTS	HAWAIIAN HOME LANDS	HAKALAU	80203		POTAB.E	0.0000	0.0072	0.0072	0.0072	0.0072	
KAMAHA - PUUEO FARM LOTS	HAWAIIAN HOME LANDS	KALAE	80504		COMBINED	0.0000	0.0000	0.0250	0.0250	0.0250	
KAWAIIAE - RESIDENCE LOTS MAKAI	HAWAIIAN HOME LANDS	MAHUKONA	80103		POTAB.E	0.0000	0.0132	0.0132	0.0132	0.0132	
KEAUKAHA - RESIDENCE LOTS UNIT 2	HAWAIIAN HOME LANDS	H'LO	80401	GROUNDWATER	POTAB.E	0.0000	0.0415	0.0415	0.0415	0.0415	
PANAHEA - FARM LOTS (UNWAE ST)	HAWAIIAN HOME LANDS	H'LO	80401		COMBINED	0.0000	0.0305	0.0305	0.0305	0.0305	
MAKUU - FARM LOTS (2 ACRES)	HAWAIIAN HOME LANDS	PAHOA	80801		COMBINED	0.0000	0.0000	0.0250	0.0250	0.0250	
WAIKAKA - RESIDENCE LOTS UNIT 2A-5	HAWAIIAN HOME LANDS	H'LO	80401		POTAB.E	0.0000	0.0100	0.0100	0.0100	0.0100	
PUUKAUA - RESIDENCE LOTS (PUU PELEHU)	HAWAIIAN HOME LANDS	WAIKAKA	80301		POTAB.E	0.0000	0.0165	0.0165	0.0165	0.0165	
KAMAHA - PASTURE LOTS	HAWAIIAN HOME LANDS	KALAE	80504		COMBINED	0.0000	0.0000	0.0125	0.0125	0.0125	
KAWAIIAE - RESIDENCE LOTS (MAUKA)	HAWAIIAN HOME LANDS	MAHUKONA	80103		POTAB.E	0.0000	0.1170	0.1170	0.1170	0.1170	
MAKUU - FARM LOTS (5 ACRES)	HAWAIIAN HOME LANDS	PAHOA	80801		COMBINED	0.0000	0.0000	0.0635	0.0635	0.0635	
PANAHEA - FARM LOTS PUNA PAPAUA	HAWAIIAN HOME LANDS	H'LO	80401		COMBINED	0.0000	0.0130	0.0130	0.0130	0.0130	
PANAHEA - RESIDENCE LOTS UNIT 4	HAWAIIAN HOME LANDS	H'LO	80401		POTAB.E	0.0250	0.0250	0.0250	0.0250	0.0250	
PUUKAUA - FARM LOTS UNIT 2, 2A	HAWAIIAN HOME LANDS	WAIKAKA	80301		COMBINED	0.0000	0.0450	0.0450	0.0450	0.0450	
PUUKAUA - PASTURE LOTS	HAWAIIAN HOME LANDS	WAIKAKA	80301		COMBINED	0.0000	0.0000	0.1104	0.1104	0.1104	
AAHOLA - RESIDENCE LOTS UNIT 4	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0450	0.0450	0.0450	0.0450	
AAHOLA - RESIDENCE LOTS UNIT 5	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0200	0.0200	0.0200	0.0200	
AAHOLA - RESIDENCE LOTS J & K	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0000	0.0000	0.0000	0.0115	
AAHOLA - RESIDENCE LOTS (VILLAGE)	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0000	0.0000	0.0000	0.0135	PROJECT DEFERRED
AAHOLA - RESIDENCE LOTS BAYVIEW/G,CI	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0305	0.0305	0.0305	0.0305	
AAHOLA - RESIDENCE LOTS M	HAWAIIAN HOME LANDS	AAHOLA	20104		POTAB.E	0.0000	0.0200	0.0200	0.0200	0.0200	
AAHOLA - FARM LOTS UNIT 1A INCREMENT 2	HAWAIIAN HOME LANDS	AAHOLA	20104		COMBINED	0.0000	0.0020	0.0020	0.0020	0.0020	
KULA - KEOKEA AG LOTS	HAWAIIAN HOME LANDS	KUMAOLE	60304	SURFACE	COMBINED	0.0000	0.0000	0.0408	0.0408	0.0408	
PAUKUKALO - RESIDENCE LOTS UNIT 3 PH 3	HAWAIIAN HOME LANDS	IJO	60102	GROUNDWATER	POTAB.E	0.0198	0.0198	0.0198	0.0198	0.0198	
HOOLEHUA - RESIDENCE LOTS UNIT 2 & 3	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	POTAB.E	0.0000	0.0378	0.0378	0.0378	0.0378	
HOOLEHUA - FARM LOTS SCATTERED	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	COMBINED	0.0000	0.0144	0.0144	0.0144	0.0144	
HOOLEHUA - FARM LOTS AIRPORT AREA	HAWAIIAN HOME LANDS	MUNAWAIIHI	40202	GROUNDWATER	COMBINED	0.0000	0.0360	0.0360	0.0360	0.0360	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE	TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
HOOLEHUA - FARM LOTS NEW AREAS	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNWATER	COMBINED		0.0000	0.0234	0.0234	0.0234	0.0234	
HOOLEHUA - PASTURE LOTS EXISTING	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNWATER	COMBINED		0.0000	0.0150	0.0150	0.0150	0.0150	
HOOLEHUA - PASTURE LOTS NEW AREAS	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNWATER	COMBINED		0.0000	0.0000	0.0120	0.0120	0.0120	
KALAMULA - RESIDENCE LOTS NEW AREAS	HAWAIIAN HOME LANDS	KUALAPUU	40203	GROUNWATER	POTABLE		0.0000	0.0000	0.0540	0.0540	0.0540	
KALAMULA - FARM LOTS	HAWAIIAN HOME LANDS	KUALAPUU	40203	GROUNWATER	COMBINED		0.0000	0.0000	0.0390	0.0390	0.0390	
KALAMULA - PASTURE LOTS UPPER AREAS	HAWAIIAN HOME LANDS	KUALAPUU	40203	GROUNWATER	COMBINED		0.0000	0.0000	0.0060	0.0060	0.0060	
KAPAAHEA - RESIDENCE LOTS	HAWAIIAN HOME LANDS	KAMILOLOA	40301	GROUNWATER	POTABLE		0.0000	0.0000	0.0300	0.0300	0.0300	
KAPAAHEA - FARM LOTS	HAWAIIAN HOME LANDS	KAMILOLOA	40301	GROUNWATER	COMBINED		0.0000	0.0000	0.0150	0.0150	0.0150	
KAPAAHEA - PASTURE LOTS	HAWAIIAN HOME LANDS	KAMILOLOA	40301	GROUNWATER	COMBINED		0.0000	0.0000	0.0060	0.0060	0.0060	
NANAKULI - RESIDENCE LOTS SERIES 7-9	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNWATER	POTABLE		0.0000	0.1000	0.1008	0.1008	0.1008	
NANAKULI - RESIDENCE LOTS SCATTERED	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNWATER	POTABLE		0.0000	0.0084	0.0084	0.0084	0.0084	
WAIANAE - RESIDENCE LOTS FREITAS DAIRY	HAWAIIAN HOME LANDS	WAIANAE	30303	GROUNWATER	POTABLE		0.0000	0.0000	0.0810	0.0810	0.0810	
WAIANAE - FARM LOTS CARLOS DAIRY	HAWAIIAN HOME LANDS	WAIANAE	30303	GROUNWATER	COMBINED		0.0000	0.0044	0.0048	0.0048	0.0048	
WAIMANALO - RESIDENCE LOTS ALA KOA ST	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNWATER	POTABLE		0.0054	0.0054	0.0054	0.0054	0.0054	
WAIMANALO - RESIDENCE LOTS UNIT 10-13	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNWATER	POTABLE		0.0000	0.1680	0.1680	0.1680	0.1680	
WAIMANALO - RESIDENCE LOTS UNIT 9	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNWATER	POTABLE		0.0000	0.0300	0.0300	0.0300	0.0300	
LUALUALEI - PAHEEHEE RIDGE	HAWAIIAN HOME LANDS	LUALUALEI	30302	GROUNWATER	POTABLE		0.0000	0.0000	0.0000	0.0000	0.0310	
LUALUALEI - RESIDENCE LOTS MAILILI	HAWAIIAN HOME LANDS	LUALUALEI	30302	GROUNWATER	POTABLE		0.0000	0.0420	0.0420	0.0420	0.0420	
LUALUALEI - RESERVOIR SITE	HAWAIIAN HOME LANDS	LUALUALEI	30302	GROUNWATER	POTABLE		0.0000	0.0072	0.0072	0.0072	0.0072	
KAHIKUNUI - HOMESTEAD	HAWAIIAN HOME LANDS	LUALUALEI	60603		POTABLE		0.0000	0.0000	0.0000	0.0000	0.0100	TKM 1-9-01
MAKUU - FARM LOTS (2 ACRES) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801		IRRIGATION		0.0000	0.0000	0.2000	0.2000	0.2000	
MAKUU - FARM LOTS (5 ACRE) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801		IRRIGATION		0.0000	0.0000	1.2700	1.2700	1.2700	
PANAHEA - FARM LOTS 'UNA PAPAYA (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401		IRRIGATION		0.0000	0.3000	0.3000	0.3000	0.3000	
PANAHEA - FARM LOTS (UNAE ST) (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401		IRRIGATION		0.0000	0.6400	0.6400	0.6400	0.6400	
PUUKA'U - FARM LOTS UNITS 2,2A (IRRIG)	HAWAIIAN HOME LANDS	WAIHEA	80301		IRRIGATION		0.0000	1.6000	1.6000	1.6000	1.6000	
PUUKA'U - PASTURE LOTS	HAWAIIAN HOME LANDS	WAIHEA	80301		PASTURE		0.0000	0.0000	0.0000	0.0000	0.0000	PASTURE CONSUMPTION TO BE DETERMINED
ANAHOA - NORTH (IRRIG)	HAWAIIAN HOME LANDS	ANAHOA	20104		IRRIGATION		0.0402	0.0402	0.0600	0.0600	0.0600	
KULA - KEOKEA AG LOTS	HAWAIIAN HOME LANDS	KUMAOLE	60304	SURFACE	IRRIGATION		0.0000	0.0000	2.4000	2.4000	2.4000	
HOOLEHUA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	MUNAWAINUI	40202		IRRIGATION		1.2300	5.9244	10.6160	15.3080	20.0000	MOLOKAI IRRIGATION SYSTEM?
KALAMULA PASTURE LOTS	HAWAIIAN HOME LANDS	KUALAPUU	40203		PASTURE		0.0000	0.0000	0.0000	0.0000	0.0000	PASTURE DEMAND TO BE DETERMINED
KALAMULA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	KUALAPUU	40203		IRRIGATION		0.2100	1.7500	3.5000	5.2500	7.0000	
LUALUALEI - PAHEEHEE/CARLOS (IRRIG)	HAWAIIAN HOME LANDS	LUALUALEI	30302		IRRIGATION		0.0000	0.0660	0.1320	0.1980	0.2640	
WAIHEA - PIU OPAE - IRRIGATION	HAWAIIAN HOME LANDS	KCKAHA	20301		IRRIGATION		0.0000	0.4500	0.9000	1.3500	1.8000	
NANAKULI - MASTER PLANS AREA	HAWAIIAN HOME LANDS	LUALUALEI	30302	GROUNWATER	POTABLE		0.0000	0.1500	0.3000	0.4500	0.6000	
KULA - MASTER PLAN AREA	HAWAIIAN HOME LANDS	KUMAOLE	60304	SURFACE	POTABLE		0.0000	0.5250	1.0500	1.5750	2.1000	
KAWAIIAE - MASTER PLAN AREA	HAWAIIAN HOME LANDS	MUHUKONA	80103		POTABLE		0.0000	0.5250	1.0500	1.5750	2.1000	
* Substtotal *							1.6292	13.1791	26.0234	34.1814	42.4054	
** Subtotal **							1.6292	13.1791	26.0234	34.1814	42.4054	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF HUMAN SERVICES											
* HAWAII HOUSING AUTHORITY											
HALE LAULIMA HA 1-27	HUMAN SERVICES	WAIMALU	30201	GROUNDWATER	IRRIGATION	1.0000	0.0023	0.0023	0.0023	0.0023	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
CENTRAL OFFICE COMPLEX	HUMAN SERVICES	KALIHI	30103	GROUNDWATER	IRRIGATION	1.0000	0.0005	0.0005	0.0005	0.0005	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIMANA - SUNFLOWER HA 1-57	HUMAN SERVICES	WAIANAЕ	30303	GROUNDWATER	IRRIGATION	1.0000	0.0065	0.0065	0.0065	0.0065	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIMANALO	HUMAN SERVICES	WAIMANALO	30604	GROUNDWATER	POTABLE	1.0000	0.0125	0.0125	0.0125	0.0125	
PAANAI	HUMAN SERVICES	KOLOA	20101	GROUNDWATER	POTABLE	1.0000	0.0255	0.0255	0.0255	0.0255	
WAIHEU	HUMAN SERVICES	IAO	60102	GROUNDWATER	POTABLE	1.0000	0.0300	0.0300	0.0300	0.0300	
LOKAI	HUMAN SERVICES	HILO	80401	GROUNDWATER	POTABLE	1.0000	0.0100	0.0100	0.0100	0.0100	
WEST HAWAII (KONA, WAIKOLOA)	HUMAN SERVICES	AAIEHOOMALU	80701	GROUNDWATER	POTABLE	1.0000	0.0165	0.0220	0.0220	0.0220	
WAINAE	HUMAN SERVICES	LAUNIPOKO	60204	GROUNDWATER	POTABLE	1.0000	0.0571	0.0762	0.0762	0.0762	TKM 4-6-15:1
WAIANAE	HUMAN SERVICES	WAIANAE	30303	GROUNDWATER	POTABLE	1.0000	0.0250	0.0250	0.0250	0.0250	TKM 8-5-02:21
WAIALUA	HUMAN SERVICES	WAIALUA	30402	GROUNDWATER	POTABLE	1.0000	0.0195	0.0260	0.0260	0.0260	TKM 6-7-01:11
HONOKAA KNOLS	HUMAN SERVICES	HONOKAA	80201	GROUNDWATER	POTABLE	1.0000	0.0262	0.0375	0.0375	0.0375	
* Subtotal *						1.0000	0.2315	0.2740	0.2740	0.2740	
* OFFICE OF YOUTH SERVICES											
HAWAII YOUTH CORRECTIONAL FACILITY	HUMAN SERVICES	WAIMANALO	30604	SURFACE	POTABLE	1.0000	0.0000	0.0095	0.0095	0.0095	SECURE CUSTODY UNIT
HAWAII YOUTH CORRECTIONAL FACILITY	HUMAN SERVICES	WAIMANALO	30604	SURFACE	POTABLE	1.0000	0.0000	0.0022	0.0022	0.0022	OBSERVATION AND ASSESSMENT UNIT
* Subtotal *						1.0000	0.0000	0.0117	0.0117	0.0117	
** Subtotal **						1.0000	0.2315	0.2857	0.2857	0.2857	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** DEPARTMENT OF JUDICIARY											
WAHIAWA DISTRICT COURT	JUDICIARY	WAHIAWA	30501	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF WAHIAWA CIVIC CENTER
OAHU FAMILY COURT & JI DETENTION CENTER	JUDICIARY	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF KAPOLEI CIVIC CENTER
HILO COURT COMPLEX	JUDICIARY	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0135	0.0180	0.0180	0.0180	PORTION TO BE SUPPLIED BY SURFACE WATER
KAUAI DISTRICT COURT	JUDICIARY	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0146	0.0195	0.0195	0.0195	
* Subsubtotal *						0.0000	0.0281	0.0375	0.0375	0.0375	
** Subtotal **						0.0000	0.0281	0.0375	0.0375	0.0375	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** DEPARTMENT OF LAND & NATURAL RESOURCES											
* AQUACULTURE DEVELOPMENT PROGRAM											
CENTER FOR APPLIED AQUACULTURE	LAND & NATURAL RESOURCES	WAIMANALO	30604	GROUNDWATER	COMBINED	0.0000	0.0000	0.0000	0.0000	0.0000	EXPANSION OF EXISTING FACILITY AT MAKAPUU
HAWAII TROPICAL AQUACULTURE CENTER (HUB)	LAND & NATURAL RESOURCES	KAHANA	30602	GROUNDWATER	AQUACULTURE	0.0000	0.0000	0.7200	0.7200	0.7200	HAKIPUU SITE - HUB FACILITY
* Substtotal *						0.0000	0.0000	0.7200	0.7200	0.7200	
* AQUACULTURE DEVELOPMENT PROGRAM											
HAWAII TROPICAL AQUACULTURE CENTER-HILO	LAND & NATURAL RESOURCES	HILO	80401	GROUNDWATER	AQUACULTURE	0.0000	0.0000	0.0000	0.0000	0.0000	SATELLITE FACILITY
* Substtotal *						0.0000	0.0000	0.0000	0.0000	0.0000	
* DIVISION OF AQUATIC RESOURCES											
ANUENUE FISHERIES RESEARCH STATION	LAND & NATURAL RESOURCES	KALIHI	30103	GROUNDWATER	POTABLE	0.2300	0.2500	0.2500	0.2500	0.2500	FACILITY ALSO USES SEA WATER WELL (REG'D WELL)
HILO BAIT STATION - FRESH WATER	LAND & NATURAL RESOURCES	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0300	0.0300	0.0300	0.0300	
HILO BAIT STATION - BRACKISH WATER	LAND & NATURAL RESOURCES	HILO	80401	SURFACE	AQUACULTURE	0.0000	0.1500	0.1500	0.1500	0.1500	
* Substtotal *						0.2300	0.4300	0.4300	0.4300	0.4300	
* DIVISION OF STATE PARKS											
OLD KONA AIRPORT EXPANSION	LAND & NATURAL RESOURCES	KEAUHOU	80901	GROUNDWATER	POTABLE	0.0000	0.0000	0.1700	0.1700	0.1700	
COASTAL PARK - MAHAULA/MAKALAWENA/ETC	LAND & NATURAL RESOURCES	KEAUHOU	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.0000	0.0000	0.0000	
* Substtotal *						0.0000	0.0000	0.1700	0.1700	0.1700	
* DIVISION OF WATER RESOURCES MANAGEMENT											
WAIALUA MONITOR WELL	LAND & NATURAL RESOURCES	WAIALUA	30402	GROUNDWATER	MONITOR	0.0000	0.0000	0.0000	0.0000	0.0000	
MOKULEIA EXPLORATORY WELL	LAND & NATURAL RESOURCES	MOKULEIA	30401	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
WAIHOLE DITCH BULKHEAD PROJECT	LAND & NATURAL RESOURCES	KAHANA	30602	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	
WAIHEE EXPLORATORY WELL	LAND & NATURAL RESOURCES	WAIHEE	60103	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
WAIKIKULI EXPLORATORY WELL	LAND & NATURAL RESOURCES	HONOKOWAI	60203	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
KAWAIIAE EXPLORATORY WELL	LAND & NATURAL RESOURCES	MAHUKONA	80103	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
HUALALAI EXPLORATORY WELL	LAND & NATURAL RESOURCES	KEAUHOU	80901	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
KEEI NO. 4 EXPLORATORY WELL	LAND & NATURAL RESOURCES	KEALAKEKUA	80603	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
* Substtotal *						0.0000	0.0000	0.0000	0.0000	0.0000	
** Subtotal **						0.2300	0.4300	1.3200	1.3200	1.3200	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF PUBLIC SAFETY											
KAUAI COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	WAILUA	20103	GROUNDWATER	POTABLE	0.0060	0.0060	0.0144	0.0200	0.0200	
MAUI COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	IAO	60102	GROUNDWATER	POTABLE	0.0126	0.0234	0.0234	0.0300	0.0300	
HALAWA CORRECTIONAL FACILITY	PUBLIC SAFETY	MOANALUA	30104	GROUNDWATER	POTABLE	0.1320	0.1500	0.1500	0.1500	0.1500	
OAHU COMMUNITY CORRECTIONAL FACILITY	PUBLIC SAFETY	KALIHI	30103	GROUNDWATER	POTABLE	0.1095	0.1500	0.1500	0.1500	0.1500	
WAIANA CORRECTIONAL FACILITY - AGR	PUBLIC SAFETY	WAIANA	30202	SURFACE	IRRIGATION	0.0496	0.0496	0.6200	0.6200	0.6200	WAIHOLE IRRIGATION DITCH WATER
HAWAII COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	ONOHEA	80204	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
HALE NANI WORK RELEASE CENTER	PUBLIC SAFETY	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
KULANI CORRECTIONAL CENTER - EXP	PUBLIC SAFETY	HILO	80401	SURFACE	COMBINED	0.0260	0.0260	0.1000	0.1000	0.1000	160 BEDS + AGRICULTURAL PROGRAM
WEST HAWAII DETENTION CENTER	PUBLIC SAFETY	KEAUHOU	80901	GROUNDWATER	POTABLE	0.0000	0.0000	0.0100	0.0100	0.0100	
WOMEN'S COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	WAIMANALO	30604	GROUNDWATER	POTABLE	0.0128	0.0200	0.0200	0.0200	0.0200	
* Subtotal *						0.3485	0.4450	1.1078	1.1200	1.1200	
** Subtotal **						0.3485	0.4450	1.1078	1.1200	1.1200	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** DEPARTMENT OF TRANSPORTATION											
* AIRPORTS DIVISION											
KEAHOE AIRPORT	TRANSPORTATION	KEAUHOU	80901	GROUNDWATER	POTABLE	1.1000	0.1800	0.2500	0.3300	0.3300	
KAHULUI AIRPORT ACCESS ROAD	TRANSPORTATION	KAHULUI	60301	GROUNDWATER	IRRIGATION	1.0000	0.0000	0.0000	0.0000	0.0000	
LIHUE AIRPORT MASTER PLAN	TRANSPORTATION	HANAMAULU	20102	GROUNDWATER	COMBINED	1.2500	0.3700	0.5000	0.6100	0.7100	
HONOLULU INTERNATIONAL AIRPORT	TRANSPORTATION	MOANALUA	30104	GROUNDWATER	COMBINED	.7999	2.4200	2.5200	2.6301	2.7400	INCLUDES 0.5 MGD FOR HICKAM AFB
KAHULUI AIRPORT MASTER PLAN	TRANSPORTATION	KAHULUI	60301	GROUNDWATER	COMBINED	1.2000	0.2500	0.3000	0.3500	0.4000	
HANA AIRPORT MASTER PLAN	TRANSPORTATION	KAWAIPAPA	60502	GROUNDWATER	COMBINED	1.0040	0.0060	0.0080	0.0100	0.0100	
MOLOKAI AIRPORT MASTER PLAN	TRANSPORTATION	MOANAINUI	40202	GROUNDWATER	COMBINED	1.0100	0.0100	0.1000	0.1500	0.2000	
LANAI AIRPORT MASTER PLAN	TRANSPORTATION	LEEMARD	50102	GROUNDWATER	COMBINED	1.0008	0.0550	0.0700	0.0800	0.1000	
HILO INTERNATIONAL AIRPORT MASTER PLAN	TRANSPORTATION	HILO	80401	GROUNDWATER	COMBINED	1.0344	0.0420	0.0496	0.0800	0.0800	
* Substtotal *						1.3991	3.3330	3.7976	4.2401	4.5400	
* HARBORS DIVISION											
HONOKOHU HARBOR EXPANSION	TRANSPORTATION	KEAUHOU	80901	GROUNDWATER	POTABLE	1.0822	0.0960	0.1134	0.1204	0.1100	ULTIMATE DEMAND BASED ON WATER MASTER PLAN
HILO HARBOR - 2010 MASTER PLAN	TRANSPORTATION	HILO	80401	GROUNDWATER	COMBINED	1.0421	0.0540	0.0661	0.0781	0.0900	
KAWAIAE HARBOR - 2010 MASTER PLAN	TRANSPORTATION	MAHUKONA	80103	GROUNDWATER	COMBINED	1.0416	0.0711	0.1007	0.1203	0.1400	
KAHULUI HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KAHULUI	60301	GROUNDWATER	COMBINED	1.0449	0.0530	0.0697	0.0810	0.0900	
PORT ALLEN HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KOLOA	20101	GROUNDWATER	COMBINED	1.0069	0.0100	0.0136	0.0166	0.0200	
NAWILIWILI HARBOR - 2010 MASTER PLAN	TRANSPORTATION	HANAMAULU	20102	GROUNDWATER	COMBINED	1.0535	0.0690	0.0837	0.0931	0.1000	
KALANAKAKAI HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KAMILOLOA	40301	GROUNDWATER	COMBINED	1.0036	0.0040	0.0058	0.0070	0.0100	
KAUNALAPAU HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KAUNALAPAU	50302	GROUNDWATER	COMBINED	1.0113	0.0130	0.0157	0.0178	0.0200	LAND AREA APPROXIMATE
HONOLULU HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KALIHI	30103	GROUNDWATER	COMBINED	1.1993	0.2260	0.2548	0.2824	0.3100	
BARBERS POINT HARBOR	TRANSPORTATION	EWA	30204	GROUNDWATER	COMBINED	1.0200	0.1100	0.1640	0.2007	0.2300	HONOLULU BWS HAS ALLOCATED 127,000 GPD FOR
KEEHI LAGOON DEVELOPMENT	TRANSPORTATION	MOANALUA	30104	GROUNDWATER	COMBINED	1.0000	0.0280	0.8921	0.9720	1.0000	ULTIMATE DEMAND BASED ON UTILITY MASTER PLAN
KAWAIAE BOAT HARBOR	TRANSPORTATION	MAHUKONA	80103	GROUNDWATER	POTABLE	1.0000	0.0180	0.0540	0.0720	0.0900	
MAALAE BOAT HARBOR	TRANSPORTATION	WAIKAPU	60101	GROUNDWATER	POTABLE	1.0185	0.0430	0.0677	0.0738	0.0800	
* Substtotal *						15.239	0.7950	1.9013	2.1352	2.4100	
* HIGHWAYS DIVISION											
H-3 NORTH HALAWA VALLEY HWY UNIT IA	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	1.0000	0.2380	0.1193	0.1193	0.1193	
H-3 NORTH HALAWA VALLEY HWY UNIT II	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	1.0000	0.2440	0.1222	0.1222	0.1222	
H-3 NORTH HALAWA VALLEY HWY UNIT IB	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	1.0000	0.2030	0.1019	0.1019	0.1019	
H-3 KAWAIAE INTERCHANGE	TRANSPORTATION	KOOLAUPOKO	30603	GROUNDWATER	IRRIGATION	1.0000	0.6690	0.4015	0.4015	0.4015	
KALANIANA'OLE HWY - PH I	TRANSPORTATION	WAIKALAE	30105	GROUNDWATER	IRRIGATION	1.0430	0.0210	0.0215	0.0215	0.0215	WAILUPE CIRCLE TO E. HALEMAUHAU ST
KAMEHAMEHA HWY LANDSCAPING PH II	TRANSPORTATION	WAIKALAE	30402	GROUNDWATER	IRRIGATION	1.0000	0.1880	0.0943	0.0943	0.0943	WEED JCT. TO HALEIWA
KALANIANA'OLE HWY PH II	TRANSPORTATION	WAIKALAE	30105	GROUNDWATER	IRRIGATION	1.0000	0.0110	0.0058	0.0058	0.0058	E. HALEMAUHAU ST. TO KULIYOUU ST.
FORT YEAGER ROAD RENTON RD-HANAKAHI ST	TRANSPORTATION	WAIKALAE	30203	GROUNDWATER	IRRIGATION	1.0000	0.2650	0.1327	0.1327	0.1327	
KALANIANA'OLE HWY PH III	TRANSPORTATION	WAIKALAE	30105	GROUNDWATER	IRRIGATION	1.0000	0.0150	0.0076	0.0076	0.0076	KULIYOUU ST. TO KEAHOE ST.
FORT YEAGER ROAD LANDSCAPING	TRANSPORTATION	WAIKALAE	30203	GROUNDWATER	IRRIGATION	1.0000	0.2850	0.1426	0.1426	0.1426	FARRINGTON HIGHWAY TO RENTON ROAD
H-1 KUNIA INTERCHANGE LANDSCAPING	TRANSPORTATION	WAIKALAE	30203	GROUNDWATER	IRRIGATION	1.0000	0.1920	0.0960	0.0960	0.0960	
H-1 PAIWA INTERCHANGE LANDSCAPING	TRANSPORTATION	EWA	30204	GROUNDWATER	IRRIGATION	1.0000	0.1080	0.0649	0.0649	0.0649	



STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
					PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
KUNIA ROAD LANDSCAPING	TRANSPORTATION	KAIAPAHU	30203	IRRIGATION	0.0000	0.0800	0.0400	0.0400	0.0400	H-1 TO FARRINGTON HWY
KUNIA RD/FARRINGTON HWY INTERCHANGE	TRANSPORTATION	KUNIA	30205	IRRIGATION	0.0000	0.1500	0.0908	0.0908	0.0908	
* Subsubtotal *					0.0430	2.6750	1.4411	1.4411	1.4411	
** Sutttotal **					2.9660	6.8078	7.1400	7.8164	8.4311	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY DEPARTMENT

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE	TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
							PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** DEPARTMENT OF UNIVERSITY OF HAWAII												
* AGRICULTURAL EXTENSION SERVICE												
KAUAI BRANCH STATION - DOMESTIC	UNIVERSITY OF HAWAII	WAILUA	20103	GROUNWATER		POTABLE	0.0063	0.0071	0.0080	0.0090	0.0100	
KAUAI BRANCH STATION - IRRIGATION	UNIVERSITY OF HAWAII	WAILUA	20103	SURFACE		IRRIGATION	0.0510	0.0521	0.0540	0.0570	0.0600	
PEARL CITY URBAN GARDEN CENTER	UNIVERSITY OF HAWAII	WAIANA	30202	GROUNWATER		IRRIGATION	0.0003	0.0003	0.0008	0.0084	0.0100	
POAMOHO EXPERIMENT STATION (DOMESTIC)	UNIVERSITY OF HAWAII	WAIANA	30501	GROUNWATER		POTABLE	0.0244	0.0251	0.0265	0.0282	0.0300	
POAMOHO EXPERIMENT STATION (IRRIGATION)	UNIVERSITY OF HAWAII	WAIANA	30501	SURFACE		IRRIGATION	0.0646	0.0691	0.0740	0.0780	0.0820	
WAIMANALO EXPERIMENT STATION (DOMESTIC)	UNIVERSITY OF HAWAII	WAIMANALO	30604	GROUNWATER		POTABLE	0.0356	0.0371	0.0386	0.0393	0.0400	
WAIMANALO EXPERIMENT STATION (IRRIGATION)	UNIVERSITY OF HAWAII	WAIMANALO	30604	SURFACE		IRRIGATION	0.0180	0.0191	0.0205	0.0212	0.0219	WAIMANALO IRRIGATION SYSTEM
WAIALEE LIVESTOCK RESEARCH FARM	UNIVERSITY OF HAWAII	KAWAILOA	30403	GROUNWATER		DOMESTIC	0.3400	0.3400	0.3400	0.3400	0.3400	LESS THAN 1.0? MGD FROM COUNTY BWS
WAIALEE LIVESTOCK RESEARCH FARM	UNIVERSITY OF HAWAII	KAWAILOA	30403	GROUNWATER		IRRIGATION	0.0900	0.0900	0.0900	0.0900	0.0900	SPRING FED POND
MOLOKAI APPLIED RESEARCH FARM	UNIVERSITY OF HAWAII	HOOLEHUA	40210	SURFACE		IRRIGATION	0.0104	0.0291	0.0480	0.0540	0.0600	MOLOKAI IRRIGATION SYSTEM
KOMOHAONA AGRICULTURAL COMPLEX	UNIVERSITY OF HAWAII	HILO	80401	GROUNWATER		POTABLE	0.0073	0.0081	0.0095	0.0098	0.0100	
* Subsubtotal *							0.6479	0.6821	0.7159	0.7349	0.7539	
* WEST OAHU CAMPUS												
UNIVERSITY OF HAWAII - WEST OAHU CAMPUS	UNIVERSITY OF HAWAII		30200	GROUNWATER		POTABLE	0.0000	0.0000	0.3000	0.4200	0.6000	PLANNING PROCESS IS JUST BEGINNING
* Subsubtotal *							0.0000	0.0000	0.3000	0.4200	0.6000	
** Subtotal **							0.6479	0.6821	1.0159	1.1549	1.3539	
*** Total ***							2.2961	60.8201	98.5287	123.5084	141.4124	

# **APPENDIX F**

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**LISTING OF STATE PROJECTS AND PROJECTED WATER NEEDS BY  
HYDROGRAPHIC AREAS**

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMC (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** ISLAND OF KAUAI											
* HYDROLOGIC SECTOR:											
KAUAI MASTER PLAN	BUDGET & FINANCE		20000	GROUNDWATER	POTABLE	0.0000	0.0000	0.3000	0.6500	1.0000	VERIFY LOCATION
* Subtotal *						0.0000	0.0000	0.3000	0.6500	1.0000	
* HYDROLOGIC SECTOR: LIHUE											
WELIWELI PROJECT	BUDGET & FINANCE	KLOA	20101	GROUNDWATER	POTABLE	0.0000	0.0000	0.1983	0.1983	0.1983	TKM: 2-8-72:6
PORT ALLEN HARBOR - 2110 MASTER PLAN	TRANSPORTATION	KLOA	20101	GROUNDWATER	COMBINED	0.0069	0.0103	0.0136	0.0166	0.0200	
PAANAI	HUMAN SERVICES	KLOA	20101	GROUNDWATER	POTABLE	0.0000	0.0255	0.0255	0.0255	0.0255	
PUHI	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0065	0.0065	0.0065	0.0065	TKM: 3-3-07:2
KAUAI RENTAL	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0500	0.0500	0.0500	0.0500	0.0500	VERIFY LOCATION
HANAMAULU	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.1544	0.2064	0.2064	0.2064	TKM: 3-7-03:20
KAUAI ELDERLY	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0250	0.0250	0.0250	0.0250	VERIFY LOCATION
KING HAMULII ELEMENTARY SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0600	0.0600	0.0600	0.0600	0.0600	
MOLOKKA PROJECT	BUDGET & FINANCE	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0000	0.5910	0.5910	0.5910	TKM: 3-6-02:
HANILIWILI HARBOR - 2110 MASTER PLAN	TRANSPORTATION	HANAMAULU	20102	GROUNDWATER	COMBINED	0.0535	0.0696	0.0837	0.0931	0.1000	
LIHUE AIRPORT MASTER PLAN	TRANSPORTATION	HANAMAULU	20102	GROUNDWATER	COMBINED	0.2500	0.3700	0.5000	0.6100	0.7200	
KAUAI INTERMEDIATE SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
LIHUE/PUHI ELEMENTARY SCHOOL	EDUCATION	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
KAUAI DISTRICT COURT	JUDICIARY	HANAMAULU	20102	GROUNDWATER	POTABLE	0.0000	0.0144	0.0195	0.0195	0.0195	
WAILUA MAUKA	BUDGET & FINANCE	WAILUA	20103	GROUNDWATER	POTABLE	0.0000	0.2402	0.9606	0.9606	0.9606	TKM: 3-9-02:12
WAILUA MAKAI	BUDGET & FINANCE	WAILUA	20103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1250	0.1250	0.1250	TKM: 3-9-06:9; SEE FACT SHEET KAUAI COUNTY HRUSING
WAILUA AGRICULTURAL PARK	AGRICULTURE	WAILUA	20103	SURFACE WATER	IRRIGATION	0.0000	0.5000	1.0000	1.0000	1.0000	ALTERNATE SITE FOR KAUAI AG PARK
KAUAI COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	WAILUA	20103	GROUNDWATER	POTABLE	0.0060	0.0060	0.0144	0.0200	0.0200	
KAUAI BRANCH STATION - DOMESTIC	UNIVERSITY OF HAWAII	WAILUA	20103	GROUNDWATER	POTABLE	0.0063	0.0071	0.0080	0.0090	0.0100	
KAUAI BRANCH STATION - IRRIGATION	UNIVERSITY OF HAWAII	WAILUA	20103	SURFACE	IRRIGATION	0.0510	0.0524	0.0540	0.0570	0.0600	
MOLOKAI - PASTURE LOTS	HAWAIIAN HOME LANDS	ANAOHOLA	20104		COMBINED	0.0000	0.0000	0.0040	0.0040	0.0040	
ANAOHOLA - RESIDENCE LOTS UNIT 3	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0180	0.0180	0.0180	0.0180	0.0180	
MOLOKAI - FARM LOTS	HAWAIIAN HOME LANDS	ANAOHOLA	20104		COMBINED	0.0000	0.0000	0.0100	0.0100	0.0100	
ANAOHOLA - RESIDENCE LOTS UNIT 4	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0450	0.0450	0.0450	0.0450	
ANAOHOLA - RESIDENCE LOTS UNIT 5	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0200	0.0200	0.0200	0.0200	
ANAOHOLA - RESIDENCE LOTS J & K	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0000	0.0000	0.0000	0.0115	
ANAOHOLA - RESIDENCE LOTS (VILLAGE)	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0000	0.0000	0.0000	0.0135	PROJECT DEFERRED
ANAOHOLA - RESIDENCE LOTS BAYVIEW/G, G	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0305	0.0305	0.0305	0.0305	
ANAOHOLA - RESIDENCE LOTS M	HAWAIIAN HOME LANDS	ANAOHOLA	20104		POTABLE	0.0000	0.0200	0.0200	0.0200	0.0200	
ANAOHOLA - FARM LOTS UNIT 1A INCREMENT 2	HAWAIIAN HOME LANDS	ANAOHOLA	20104		COMBINED	0.0000	0.0020	0.0020	0.0020	0.0020	
KAPAA INTERMEDIATE SCHOOL	EDUCATION	ANAOHOLA	20104	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
KAPAA II ELEMENTARY SCHOOL	EDUCATION	ANAOHOLA	20104	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
MOLOKAI AGRICULTURAL PARK	AGRICULTURE	ANAOHOLA	20104	GROUNDWATER	IRRIGATION	0.0000	1.9000	3.8000	3.8000	3.8000	ALTERNATE SITE FOR KAUAI AG PARK
ANAOHOLA - NORTH (IRRIG)	HAWAIIAN HOME LANDS	ANAOHOLA	20104		IRRIGATION	0.0402	0.0402	0.0600	0.0600	0.0600	
KEALIA AGRICULTURAL PARK	AGRICULTURE	ANAOHOLA	20104	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
* Substtotal *						0.5419	4.4183	9.7510	9.8830	10.0323	
* HYDROLOGIC SECTOR: WAIIEA											
KEKAHA - RESIDENCE LOTS UNIT 2	HAWAIIAN HOME LANDS	KEKAHA	20301		POTABLE	0.0105	0.0105	0.0105	0.0105	0.0135	
WAIIEA - PUU OPAE - IRRIGATION	HAWAIIAN HOME LANDS	KEKAHA	20301		IRRIGATION	0.0000	0.4500	0.9000	1.3500	1.8000	
WAIIEA AGRICULTURAL PARK	AGRICULTURE	KEKAHA	20301	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
CLIFFSIDE AT HANAPEPE	BUDGET & FINANCE	MAKAWELI	20303	GROUNDWATER	POTABLE	0.1530	0.2550	0.2550	0.2550	0.2550	TMK: 1-6-07:POR. 3 & 18
HANAPEPE AGRICULTURAL PARK	AGRICULTURE	MAKAWELI	20303	SURFACE	IRRIGATION	0.0000	0.7500	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
* Substtotal *						0.1635	2.2155	4.1655	4.6155	5.0655	
** Subtotal **						0.7054	6.6338	14.2165	5.1485	16.0978	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** ISLAND OF OAHU											
* HYDROLOGIC SECTOR: OAHU											
OAHU ARMORIES (4 SITES)	DEFENSE		30000	GROUNDWATER	POTABLE	0.0000	0.0000	0.0408	0.0408	0.0408	
* Substtotal *						0.0000	0.0000	0.0408	0.0408	0.0408	
* HYDROLOGIC SECTOR:											
LINEKONA RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0000	0.0800	0.0800	0.0800	VERIFY LOCATION
VETERANS OF FOREIGN WAR RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0000	0.0368	0.0368	0.0368	VERIFY LOCATION
NA LEI HULU KUPUNA RENTALS	BUDGET & FINANCE		30000	GROUNDWATER	POTABLE	0.0000	0.0390	0.0390	0.0390	0.0390	VERIFY LOCATION
* Substtotal *						0.0000	0.0390	0.1558	0.1558	0.1558	
* HYDROLOGIC SECTOR: HONOLULU											
WAIKIKI INTERNATIONAL CONVENTION PLAZA	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	PALOLO	30101	GROUNDWATER	POTABLE	0.0000	0.0000	0.9300	0.9300	0.9300	CONVENTION CENTER 14.4 AC @ 32000
MANOA INNOVATION CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	PALOLO	30101	GROUNDWATER	POTABLE	0.0000	0.0124	0.0124	0.0124	0.0124	
KAKAAKO RENTAL - KAMKEE VISTA	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0135	0.0338	0.0675	0.0675	
KAKAAKO REDEVELOPMENT PROJECT (STATE)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	NUUANU	30102	GROUNDWATER	COMBINED	0.0000	0.3120	0.4580	0.5430	0.6280	STATE PROJECTS
KAKAAKO ELDERLY - POHULANI	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0780	0.0780	0.0780	0.0780	
LILIHU CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0084	0.0168	0.0168	0.0168	WAREHOUSES CURRENTLY OCCUPY SITE
PANAA RENTAL	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.1500	0.3750	0.3750	0.3750	
ILANIYAI RENTALS	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	LISTED UNDER HCDA (KAKAAKO)
KAPIOLANI COMMUNITY COLLEGE - RENTALS	BUDGET & FINANCE	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	LISTED UNDER HCDA (KAKAAKO)
KAKAAKO REDEVELOPMENT PROJECT (OTHER)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	NUUANU	30102	GROUNDWATER	POTABLE	0.0000	0.5335	1.4769	2.1501	2.8250	OTHER PROJECTS (NON-STATE)
KAPUNA II	BUDGET & FINANCE	KALIHI	30103	GROUNDWATER	POTABLE	0.1030	0.1030	0.1030	0.1030	0.1030	TKM: 1-6-07:67
ALOHIA TOWER DEVELOPMENT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	COMBINED	0.1225	0.5386	0.6123	0.6123	0.6123	
HONOLULU HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KALIHI	30103	GROUNDWATER	COMBINED	0.1993	0.2265	0.2548	0.2824	0.3100	
OAHU COMMUNITY CORRECTIONAL FACILITY	PUBLIC SAFETY	KALIHI	30103	GROUNDWATER	POTABLE	0.1095	0.1500	0.1500	0.1500	0.1500	
ANUENUE FISHERIES RESEARCH STATION	LAND & NATURAL RESOURCES	KALIHI	30103	GROUNDWATER	POTABLE	0.2300	0.2500	0.2500	0.2500	0.2500	2500 FACILITY ALSO USES SEA WATER WELL (REG'D WELL)
MARINE EDUCATION & TRAINING CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0200	0.0200	0.0200	DRAFT MASTER PLAN - AVERAGE DEMAND 18,000 GPD
SAND ISLAND BOAT LAUNCH FACILITY	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
SAND ISLAND CORPORATION YARD	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1100	0.1100	0.1100	EIS - 108,000 GPD
SAND ISLAND PARK EXPANSION	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.2200	0.2200	0.2200	0.2200	EIS - 215,000 GPD
SAND ISLAND CONTAINER YARD EXPANSION I	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0800	0.0800	0.0800	
SAND ISLAND CONTAINER YARD EXPANSION II	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0380	0.0720	
KAPALAMA CONTAINER YARD	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.2120	0.2120	0.2120	
KAPALAMA FOOD DISTRIBUTION & WHOLESALE	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0268	0.0536	0.0536	0.0536	RELOCATED FROM KAKAAKO
KAPALAMA FREIGHT FORWARDING & TRANSPORT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0844	0.0844	0.0844	RELOCATED FROM KAKAAKO
KAPALAMA DEPARTMENT OF AGRICULTURE FIELD	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0030	0.0060	0.0060	0.0060	RELOCATED FROM KAKAAKO
INTERISLAND BARGE SERVICE FACILITY	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0000	0.1316	0.1316	0.1316	
FISH PROCESSING CENTER (PIERS 35 & 36)	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KALIHI	30103	GROUNDWATER	POTABLE	0.0000	0.0280	0.0280	0.0280	0.0280	
CENTRAL OFFICE COMPLEX	HUMAN SERVICES	KALIHI	30103	GROUNDWATER	IRRIGATION	0.0000	0.0005	0.0005	0.0005	0.0005	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
HONOLULU INTERNATIONAL AIRPORT	TRANSPORTATION	MOANALUA	30104	GROUNDWATER	COMBINED	1.7999	2.4200	2.5200	2.6301	2.7400	INCLUDES 0.5 MGD FOR HICKAM AFB
KEEHI LAGOON DEVELOPMENT	TRANSPORTATION	MOANALUA	30104	GROUNDWATER	COMBINED	0.0000	0.0281	0.8921	0.9720	1.0830	ULTIMATE DEMAND BASED ON UTILITY MASTER PLAN

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1991 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
HALAWA CORRECTIONAL FACILITY	PUBLIC SAFETY	MAANALUA	30104	GROUNDWATER	POTABLE	0.1320	0.1500	0.1500	0.1500	0.1500	
KALANANA'OLE HWY - PH I	TRANSPORTATION	WAIALAE	30105	GROUNDWATER	IRRIGATION	0.0430	0.0215	0.0215	0.0215	0.0215	WAILUPE CIRCLE TO E. HALEMAUWAI ST.
KALANANA'OLE HWY PH II	TRANSPORTATION	WAIALAE	30105	GROUNDWATER	IRRIGATION	0.0000	0.0116	0.0058	0.0058	0.0058	E. HALEMAUWAI ST. TO KULIYOUH ST.
KALANANA'OLE HWY PH III	TRANSPORTATION	WAIALAE	30105	GROUNDWATER	IRRIGATION	0.0000	0.0152	0.0076	0.0076	0.0076	KULIYOUH ST. TO KEAHOLE ST.
HISTARC	DEFENSE	WAIALAE	30105	GROUNDWATER	POTABLE	0.0147	0.0161	0.0161	0.0161	0.0161	
* Substtotal *						2.7539	5.3277	9.3202	0.3657	11.4071	
* HYDROLOGIC SECTOR: PEARL HARBOR											
UNIVERSITY OF HAWAII - WEST OAHU CAMPUS	UNIVERSITY OF HAWAII		30200	GROUNDWATER	POTABLE	0.0000	0.0000	0.3000	0.4200	0.6000	PLANNING PROCESS IS JUST BEGINNING
H-3 NORTH HALAWA VALLEY HWY UNIT IA	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.2386	0.1193	0.1193	0.1193	
H-3 NORTH HALAWA VALLEY HWY UNIT II	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.2444	0.1222	0.1222	0.1222	
H-3 NORTH HALAWA VALLEY HWY UNIT IB	TRANSPORTATION	WAIMALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.2038	0.1019	0.1019	0.1019	
HALE KOHALU	BUDGET & FINANCE	WAIMALU	30201	GROUNDWATER	POTABLE	0.0000	0.0950	0.0950	0.0950	0.0950	TKM: 9-7-19:15
HALE LAULIMA HA 1-27	HUMAN SERVICES	WAIMALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.0023	0.0023	0.0023	0.0023	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIANA INTERMEDIATE SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
WAIANA I ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
WAIANA CORRECTIONAL FACILITY - AGR	PUBLIC SAFETY	WAIANA	30202	SURFACE	IRRIGATION	0.0496	0.0496	0.6200	0.6200	0.6200	WAIALOHE IRRIGATION DITCH WATER
WAIANA ARMORY	DEFENSE	WAIANA	30202	GROUNDWATER	POTABLE	0.0158	0.0188	0.0188	0.0188	0.0188	
REGIONAL TRAINING SITE MAINTENANCE	DEFENSE	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0017	0.0017	0.0017	0.0017	
PEARL CITY URBAN GARDEN CENTER	UNIVERSITY OF HAWAII	WAIANA	30202	GROUNDWATER	IRRIGATION	0.0003	0.0035	0.0088	0.0088	0.0100	
WAIANA II ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
WAIANA III ELEMENTARY SCHOOL	EDUCATION	WAIANA	30202	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
LIVESTOCK AGRICULTURAL PARK	AGRICULTURE	WAIAPAHU	30203	GROUNDWATER	COMBINED	0.0000	3.0000	3.0000	3.0000	3.0000	ALTERNATE SITE FOR LIVESTOCK AG PARK
CROWN ELDERLY	BUDGET & FINANCE	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0545	0.0545	0.0545	0.0545	TKM: 9-4-17:1
KALEIAPUHU ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0600	0.0600	0.0600	0.0600	0.0600	VERIFY LOCATION
EWA GENTRY ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
MILILANI MAUKA ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
MILILANI MAUKA II ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
WEST KOCH ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
FORT YEAGER ROAD RENOV RD-HANAKAHI ST	TRANSPORTATION	WAIAPAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.2654	0.1327	0.1327	0.1327	
FORT YEAGER ROAD LANDSCAPING	TRANSPORTATION	WAIAPAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.2852	0.1426	0.1426	0.1426	FARRINGTON HIGHWAY TO RENTON ROAD
ROYAL KURIA ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
WAIKELE ELEMENTARY SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
MILILANI INTERMEDIATE SCHOOL	EDUCATION	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
WAIAPAHU CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	WAIAPAHU	30203	GROUNDWATER	POTABLE	0.0000	0.0135	0.0135	0.0135	0.0135	
H-1 KUNIA INTERCHANGE LANDSCAPING	TRANSPORTATION	WAIAPAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.1920	0.0960	0.0960	0.0960	H-1 TO FARRINGTON HWY
KUNIA ROAD LANDSCAPING	TRANSPORTATION	WAIAPAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.0800	0.0400	0.0400	0.0400	
KAPOLEI VILLAGE	BUDGET & FINANCE	EWA	30204	GROUNDWATER	COMBINED	0.0750	0.6320	1.3685	1.3685	1.3685	TKM: 9-1-16:23 & POR. 25
KAPOLEI VILLAGE RENTALS	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0856	0.2140	0.2140	0.2140	
KAPOLEI VILLAGE ELDERLY	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.1100	0.3300	0.3300	0.3300	
KAPOLEI ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
KAPOLEI INTERMEDIATE SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0900	0.0900	0.0900	
KAPOLEI HIGH SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.1200	0.1200	
BARBERS POINT HARBOR	TRANSPORTATION	EWA	30204	GROUNDWATER	COMBINED	0.0200	0.1100	0.1640	0.2007	0.2580	HONOLULU BWS HAS ALLOCATED 127,000 GPD FOR

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMC (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
KAPOLEI II ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
EWA PLAINS ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0500	0.0600	
EWA MARINA ELEMENTARY SCHOOL	EDUCATION	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	
OAHU FAMILY COURT & JI DETENTION CENTER	JUDICIARY	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF KAPOLEI CIVIC CENTER
KAPOLEI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0360	0.0840	0.1200	0.1200	PROJECT AREA IS CURRENTLY IN SUGAR CANE
H-1 PALMA INTERCHANGE LANDSCAPING	TRANSPORTATION	EWA	30204	GROUNDWATER	IRRIGATION	0.0000	0.1082	0.0649	0.0649	0.0649	
KAPOLEI PUBLIC HOUSING	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0845	0.1056	0.1056	0.1056	
KAPOLEI MULTI FAMILY	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.1952	0.1952	0.1952	0.1952	
KAPOLEI WBE	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0905	0.0905	0.0905	
VILLAGES OF KAPOLEI (I&ST)	BUDGET & FINANCE	EWA	30204	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	1.3750	2.7500	FUTURE EXPANSION OF KAPOLEI VILLAGE
KUNIA RD/FARRINGTON HWY INTERCHANGE	TRANSPORTATION	KUNIA	30205	GROUNDWATER	IRRIGATION	0.0000	0.1513	0.0908	0.0908	0.0908	
* Subtotal *						0.2207	6.5011	8.4148	10.3741	11.9830	
* HYDROLOGIC SECTOR: WAIANAЕ											
NANAKULI - RESIDENCE LOTS SERIES 6	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNDWATER	POTABLE	0.0228	0.0228	0.0228	0.0228	0.0228	
NANAKULI - RESIDENCE LOTS SERIES 5-3	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNDWATER	POTABLE	0.0000	0.0318	0.0318	0.0318	0.0318	
KEYSTONE	BUDGET & FINANCE	NANAKULI	30301	GROUNDWATER	POTABLE	0.0400	0.2000	0.2000	0.2000	0.2000	TKM: 8-7-07:4
NANAKULI - RESIDENCE LOTS SERIES 7-9	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNDWATER	POTABLE	0.0000	0.1008	0.1008	0.1008	0.1008	
NANAKULI - RESIDENCE LOTS SCATTERED	HAWAIIAN HOME LANDS	NANAKULI	30301	GROUNDWATER	POTABLE	0.0000	0.0084	0.0084	0.0084	0.0084	
LUALUAEI - PAHEEHEE RIDGE	HAWAIIAN HOME LANDS	LUALUAEI	30302	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0000	0.0310	
LUALUAEI - RESIDENCE LOTS MAILILI	HAWAIIAN HOME LANDS	LUALUAEI	30302	GROUNDWATER	POTABLE	0.0000	0.0420	0.0420	0.0420	0.0420	
LUALUAEI - RESERVOIR SITE	HAWAIIAN HOME LANDS	LUALUAEI	30302	GROUNDWATER	POTABLE	0.0000	0.0072	0.0072	0.0072	0.0072	
NANAKULI/MAILILI ELEMENTARY SCHOOL	EDUCATION	LUALUAEI	30302	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
LUALUAEI - PAHEEHEE/CARLOS (IRRIG)	HAWAIIAN HOME LANDS	LUALUAEI	30302	GROUNDWATER	IRRIGATION	0.0000	0.0660	0.1320	0.1980	0.2640	
NANAKULI - MASTER PLANS AREA	HAWAIIAN HOME LANDS	LUALUAEI	30302	GROUNDWATER	POTABLE	0.0000	0.1500	0.3000	0.4500	0.6000	
WAIANAЕ AGRICULTURAL PARK	AGRICULTURE	WAIANAЕ	30303	GROUNDWATER	COMBINED	0.0000	0.3800	0.3800	0.3800	0.3800	
WAIANAЕ - RESIDENCE LOTS UNIT 2A-2,3	HAWAIIAN HOME LANDS	WAIANAЕ	30303	GROUNDWATER	POTABLE	0.0000	0.0726	0.0726	0.0726	0.0726	
WAIANAЕ - RESIDENCE LOTS FREITAS DAIRY	HAWAIIAN HOME LANDS	WAIANAЕ	30303	GROUNDWATER	POTABLE	0.0000	0.0000	0.0810	0.0810	0.0810	
WAIANAЕ - FARM LOTS CARLOS DAIRY	HAWAIIAN HOME LANDS	WAIANAЕ	30303	GROUNDWATER	COMBINED	0.0000	0.0048	0.0048	0.0048	0.0048	
KANALIЕ ELEMENTARY SCHOOL	EDUCATION	WAIANAЕ	30303	GROUNDWATER	POTABLE	0.0600	0.0600	0.0600	0.0600	0.0600	
WAIMAHU - SUNFLOWER HWY 1-57	HUMAN SERVICES	WAIANAЕ	30303	GROUNDWATER	IRRIGATION	0.0000	0.0065	0.0065	0.0065	0.0065	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAIANAЕ	HUMAN SERVICES	WAIANAЕ	30303	GROUNDWATER	POTABLE	0.0000	0.0250	0.0250	0.0250	0.0250	TKM 8-5-02:28
MAKAHA MEADOWS EAST II	BUDGET & FINANCE	MAKAHA	30304	GROUNDWATER	POTABLE	0.0000	0.0020	0.0020	0.0020	0.0020	TKM: 8-4-26
* Subtotal *						0.1228	1.1799	1.5369	1.7529	1.9939	
* HYDROLOGIC SECTOR: NORTH											
WOKULEIA EXPLORATORY WELL	LAND & NATURAL RESOURCES	WOKULEIA	30401	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
KAMEHAMEHA HWY LANDSCAPING PH II	TRANSPORTATION	WAIALUA	30402	GROUNDWATER	IRRIGATION	0.0000	0.1886	0.0943	0.0943	0.0943	NEED JCT. TO HALEIWA
WAIALUA	HUMAN SERVICES	WAIALUA	30402	GROUNDWATER	POTABLE	0.0000	0.0195	0.0260	0.0260	0.0260	TKM 6-7-01:13
WAIALUA MONITOR WELL	LAND & NATURAL RESOURCES	WAIALUA	30402	GROUNDWATER	MONITOR	0.0000	0.0000	0.0000	0.0000	0.0000	
WAIALEE LIVESTOCK RESEARCH FARM	UNIVERSITY OF HAWAII	KAWAIILOA	30403	GROUNDWATER	DOMESTIC	0.3400	0.3400	0.3400	0.3400	0.3400	LESS THAN .02 MGD FROM COUNTY BWS
WAIALEE LIVESTOCK RESEARCH FARM	UNIVERSITY OF HAWAII	KAWAIILOA	30403	GROUNDWATER	IRRIGATION	0.0900	0.0900	0.0900	0.0900	0.0900	SPRING FED POND

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE	TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1991 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
* Subtotal *							0.4300	0.638	0.5503	0.5503	0.5503	
* HYDROLOGIC SECTOR: CNTRAL												
LEILEHA VILLAGE	BUDGET & FINANCE	WAIANA	30501	GROUNDWATER	POTABLE		0.0000	0.0417	0.0417	0.0417	0.0417	TKM: 7-4-12:10 & 12
WAIANA ELDERLY	BUDGET & FINANCE	WAIANA	30501	GROUNDWATER	POTABLE		0.0000	0.0540	0.0540	0.0540	0.0540	TKM: 7-4-12:10 & 12 (PORTION OF 16.69 ACRES)
WHITMORE CIRCLE APARTMENTS	BUDGET & FINANCE	WAIANA	30501	GROUNDWATER	POTABLE		0.0000	0.0176	0.0176	0.0176	0.0176	
WAIANA DISTRICT COURT	JUDICIARY	WAIANA	30501	GROUNDWATER	POTABLE		0.0000	0.0000	0.0000	0.0000	0.0000	PART OF WAIANA CIVIC CENTER
WAIANA ARMORY ADDITION/ALTERATION	DEFENSE	WAIANA	30501	GROUNDWATER	POTABLE		0.0114	0.0159	0.0159	0.0159	0.0159	
WAIANA CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	WAIANA	30501	GROUNDWATER	POTABLE		0.0000	0.0090	0.0090	0.0090	0.0090	
POAHOHO EXPERIMENT STATION (DOMESTIC)	UNIVERSITY OF HAWAII	WAIANA	30501	GROUNDWATER	POTABLE		0.0244	0.0254	0.0285	0.0282	0.0300	
POAHOHO EXPERIMENT STATION (IRRIGATION)	UNIVERSITY OF HAWAII	WAIANA	30501	SURFACE	IRRIGATION		0.0646	0.0693	0.0740	0.0780	0.0820	
* Subtotal *							0.1004	0.227	0.2387	0.2444	0.2502	
* HYDROLOGIC SECTOR: WINDWARD												
KAHUKU AGRICULTURAL PARK	AGRICULTURE	KOOLAULOA	30601	GROUNDWATER	COMBINED		0.0000	2.0000	2.0000	2.0000	2.0000	PROPOSED STATE OPERATED SYSTEM
WAIMANALO AGRICULTURAL PARK	AGRICULTURE	WAIMANALO	30601	SURFACE WATER	IRRIGATION		0.9800	0.9800	0.9800	0.9800	0.9800	WAIMANALO IRRIGATION SYSTEM & HONOLULU BWS
KAHUKU ELEMENTARY SCHOOL	EDUCATION	KOOLAULOA	30601	GROUNDWATER	POTABLE		0.0600	0.0600	0.0600	0.0600	0.0600	
KAHUKU IRRIGATION SYSTEM (CONVERSION)	AGRICULTURE	KOOLAULOA	30601	GROUNDWATER	IRRIGATION		0.5000	1.0000	1.0000	1.0000	1.0000	
KAHUKU INTERMEDIATE SCHOOL	EDUCATION	KOOLAULOA	30601	GROUNDWATER	POTABLE		0.0000	0.0900	0.0900	0.0900	0.0900	
HAWAII TROPICAL AQUACULTURE CENTER (HUB)	LAND & NATURAL RESOURCES	KAHANA	30602	GROUNDWATER	AQUACULTURE		0.0000	0.0000	0.7200	0.7200	0.7200	HAKIPUU SITE - HUB FACILITY
WAIANALE DITCH BULKHEAD PROJECT	LAND & NATURAL RESOURCES	KAHANA	30602	GROUNDWATER	IRRIGATION		0.0000	0.0000	0.0000	0.0000	0.0000	
WAIANALE LEASE LOTS	BUDGET & FINANCE	KOOLAUPOKO	30603	GROUNDWATER	COMBINED		0.0000	0.0615	0.0615	0.0615	0.0615	VERIFY LOCATION
H-3 KANEHOE INTERCHANGE	TRANSPORTATION	KOOLAUPOKO	30603	GROUNDWATER	IRRIGATION		0.0000	0.6893	0.4015	0.4015	0.4015	
HAWAII STATE VETERANS CEMETERY	DEFENSE	KOOLAUPOKO	30603	GROUNDWATER	IRRIGATION		0.0000	0.2391	0.2399	0.2399	0.2399	0.2399 WELLS OWNED BY VETERANS CEMETERY
HAWAII STATE VETERANS CEMETERY	DEFENSE	KOOLAUPOKO	30603	GROUNDWATER	POTABLE		0.0000	0.0000	0.0005	0.0005	0.0005	300 FIXTURE UNITS = 528 GPD
WAIMANALO - RESIDENCE LOTS UNIT 8	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0000	0.0331	0.0336	0.0336	0.0336	
WAIMANALO - RESIDENCE LOTS ALA KOA ST	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0054	0.0054	0.0054	0.0054	0.0054	
WAIMANALO - RESIDENCE LOTS UNIT 10-3	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0000	0.1680	0.1680	0.1680	0.1680	
WAIMANALO - RESIDENCE LOTS UNIT 9	HAWAIIAN HOME LANDS	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0000	0.0300	0.0300	0.0300	0.0300	
HAWAII YOUTH CORRECTIDNAL FACILITY	HUMAN SERVICES	WAIMANALO	30604	SURFACE	POTABLE		0.0000	0.0000	0.0095	0.0095	0.0095	0.0095 SECURE CUSTODY UNIT
HAWAII YOUTH CORRECTIDNAL FACILITY	HUMAN SERVICES	WAIMANALO	30604	SURFACE	POTABLE		0.0000	0.0000	0.0022	0.0022	0.0022	0.0022 OBSERVATION AND ASSESSMENT UNIT
WOMEN'S COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0128	0.0200	0.0200	0.0200	0.0200	
WAIMANALO EXPERIMENT STATION (DOMESTIC)	UNIVERSITY OF HAWAII	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0356	0.037	0.0386	0.0393	0.0400	
WAIMANALO EXPERIMENT STATION (IRRIG)	UNIVERSITY OF HAWAII	WAIMANALO	30604	SURFACE	IRRIGATION		0.0180	0.019	0.0205	0.0212	0.0219	WAIMANALO IRRIGATION SYSTEM
CENTER FOR APPLIED AQUACULTURE	LAND & NATURAL RESOURCES	WAIMANALO	30604	GROUNDWATER	COMBINED		0.0000	0.0000	0.0000	0.0000	0.0000	EXPANSION OF EXISTING FACILITY AT HAKAPUU
WAIMANALO	HUMAN SERVICES	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0000	0.0125	0.0125	0.0125	0.0125	
REHABILITATE MAUNAWILI DITCH INTAKES	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION		1.8000	1.8000	2.4000	3.0000	3.0000	
WAIMANALO SELF HELP	BUDGET & FINANCE	WAIMANALO	30604	GROUNDWATER	POTABLE		0.0000	0.0200	0.0200	0.0200	0.0200	TKM 4-1-12:153,154,155 4-1-34:88,90,91
WAIMANALO WATERSHED PROJECT	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION		2.0000	1.5000	1.7499	1.7499	2.0001	IMPROVEMENT OF WAIMANALO IRRIGATION SYSTEM
* Subtotal *							6.6118	8.6571	10.0636	10.6650	10.9166	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE	TYPE	PRIMARY USE	1980 PROJ. DMD (MGD)	1991 PROJ. DMD (MGD)	2000 PROJ. DMD (MGD)	2005 PROJ. DMD (MGD)	2010 PROJ. DMD (MGD)	REMARKS
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\*\* Subtotal \*\*  
6,2396 22,566 30,321 34,1490 37,3007

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** ISLAND OF MOLOKAI											
* HYDROLOGIC SECTOR: CENTRAL											
HOOLEHUA - RESIDENCE LOTS UNIT 1	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	POTABLE	3.0000	0.0126	0.0126	0.0126	0.0126	
HOOLEHUA - RESIDENCE LOTS UNIT 2 & 3	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	POTABLE	3.0000	0.0378	0.0378	0.0378	0.0378	
HOOLEHUA - FARM LOTS SCATTERED	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	COMBINED	3.0000	0.0144	0.0144	0.0144	0.0144	
HOOLEHUA - FARM LOTS NEW AREAS	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	COMBINED	3.0000	0.0234	0.0234	0.0234	0.0234	
HOOLEHUA - PASTURE LOTS EXISTING	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	COMBINED	0.0000	0.0150	0.0150	0.0150	0.0150	
HOOLEHUA - PASTURE LOTS NEW AREAS	HAWAIIAN HOME LANDS	HOOLEHUA	40201	GROUNDWATER	COMBINED	0.0000	0.0000	0.0120	0.0120	0.0120	
HOOLEHUA - FARM LOTS AIRPORT AREA	HAWAIIAN HOME LANDS	KAUNAWAIHUI	40202	GROUNDWATER	COMBINED	0.0000	0.0300	0.0360	0.0360	0.0360	
MOLOKAI AIRPORT MASTER PLAN	TRANSPORTATION	KAUNAWAIHUI	40202	GROUNDWATER	COMBINED	0.0100	0.0100	0.1000	0.1500	0.2000	
HOOLEHUA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	KAUNAWAIHUI	40202		IRRIGATION	1.2300	5.9240	10.6160	15.3080	20.0000	MOLOKAI IRRIGATION SYSTEM?
KALANAUULA - RESIDENCE LOTS	HAWAIIAN HOME LANDS	UALAPUUA	40203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0768	0.0768	0.0768	
KALANAUULA - RESIDENCE LOTS NEW AREAS	HAWAIIAN HOME LANDS	UALAPUUA	40203	GROUNDWATER	POTABLE	0.0000	0.0000	0.0540	0.0540	0.0540	
KALANAUULA - FARM LOTS	HAWAIIAN HOME LANDS	UALAPUUA	40203	GROUNDWATER	COMBINED	0.0000	0.0000	0.0390	0.0390	0.0390	
KALANAUULA - PASTURE LOTS UPPER AREAS	HAWAIIAN HOME LANDS	UALAPUUA	40203	GROUNDWATER	COMBINED	0.0000	0.0000	0.0060	0.0060	0.0060	
KALANAUULA PASTURE LOTS	HAWAIIAN HOME LANDS	UALAPUUA	40203		PASTURE	0.0000	0.0000	0.0000	0.0000	0.0000	PASTURE DEMAND TO BE DETERMINED
KALANAUULA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	UALAPUUA	40203		IRRIGATION	0.2100	1.7500	3.5000	5.2500	7.0000	
REHABILITATE DHHL KALAE SURFACE SOURCE	AGRICULTURE	UALAPUUA	40203	SURFACE	IRRIGATION	0.0000	0.2000	0.2000	0.2000	0.2000	
MOLOKAI APPLIED RESEARCH FARM	UNIVERSITY OF HAWAII	HOOLEHUA	40210	SURFACE	IRRIGATION	0.0104	0.0212	0.0480	0.0540	0.0600	MOLOKAI IRRIGATION SYSTEM
* Subsubtotal *						1.4604	8.0544	14.7910	21.2890	27.7870	
* HYDROLOGIC SECTOR: SOUTHEAST											
KAPAAKEA - RESIDENCE LOTS ONE ALII	HAWAIIAN HOME LANDS	CAMILOLOA	40301	GROUNDWATER	POTABLE	0.0000	0.0004	0.0024	0.0024	0.0024	
KAPAAKEA - RESIDENCE LOTS	HAWAIIAN HOME LANDS	CAMILOLOA	40301	GROUNDWATER	POTABLE	0.0000	0.0000	0.0300	0.0300	0.0300	
KAPAAKEA - FARM LOTS	HAWAIIAN HOME LANDS	CAMILOLOA	40301	GROUNDWATER	COMBINED	0.0000	0.0000	0.0150	0.0150	0.0150	
KAPAAKEA - PASTURE LOTS	HAWAIIAN HOME LANDS	CAMILOLOA	40301	GROUNDWATER	COMBINED	0.0000	0.0000	0.0060	0.0060	0.0060	
KAUNAKAKAI HARBOR - 2010 MASTER PLAN	TRANSPORTATION	CAMILOLOA	40301	GROUNDWATER	COMBINED	0.0036	0.0003	0.0058	0.0070	0.0100	
MOLOKAI ARMORY (ONS I KAUNAKAKAI)	DEFENSE	CAMILOLOA	40301	GROUNDWATER	POTABLE	0.0011	0.0004	0.0014	0.0014	0.0014	
KAUNAKAKAI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	CAMILOLOA	40301	GROUNDWATER	POTABLE	0.0000	0.0006	0.0132	0.0132	0.0132	
* Subsubtotal *						0.0047	0.0107	0.0738	0.0750	0.0780	
* HYDROLOGIC SECTOR: NORTHEAST											
WAIKOLU WELL DEVELOPMENT - PHASE II	AGRICULTURE	WAIKOLU	40403	GROUNDWATER	IRRIGATION	0.0000	0.7500	0.7500	0.7500	0.7500	PROPOSED SOURCE FOR MOLOKAI IRRIGATION SYSTEM
PELEKUNU WATER SOURCE & STORAGE	AGRICULTURE	PELEKUNU	40405	SURFACE	IRRIGATION	0.0000	0.0000	0.0000	9.3750	12.5000	IN COOPERATION WITH DHHL
* Subsubtotal *						0.0000	0.7500	0.7500	10.1250	13.2500	
** Subtotal **						1.4651	8.8111	15.6148	31.4890	41.1150	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1915 PROJ DID (MG)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2310 PROJ DMD (MGD)	REMARKS
** ISLAND OF LANAI											
* HYDROLOGIC SECTOR: CENTRAL											
LANAI AIRPORT MASTER PLAN	TRANSPORTATION	LEEWARD	50102	GROUNDWATER	COMBINED	0.0008	0.0510	0.0700	0.0800	0.1300	
LANAI AGRICULTURAL PARK	AGRICULTURE	LEEWARD	50102	GROUNDWATER	IRRIGATION	0.0000	0.0010	0.0000	0.2500	0.5300	
* Subsubtotal *						0.0008	0.0510	0.0700	0.3300	0.6300	
* HYDROLOGIC SECTOR: IAA											
KAUMALAPAU HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KAUMALAPAU	50302	GROUNDWATER	COMBINED	0.0113	0.0115	0.0157	0.0178	0.0200	LAND AREA APPROXIMATE
* Subsubtotal *						0.0113	0.0115	0.0157	0.0178	0.0200	
** Subtotal **						0.0121	0.0615	0.0857	0.3478	0.6500	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** ISLAND OF MAUI											
* HYDROLOGIC SECTOR:											
NEW MAUI INTERMEDIATE SCHOOL	EDUCATION		60000		POTAB.E	0.0000	0.0000	0.0900	0.0900	0.0900	VERIFY LOCATION
WAIALUA MULTI FAMILY	BUDGET & FINANCE		60000	GROUNWATER	POTAB.E	0.0000	0.0512	0.0512	0.0512	0.0512	VERIFY LOCATION
* Substtotal *						0.0000	0.0512	0.1412	0.1412	0.1412	
* HYDROLOGIC SECTOR: WAILUKU											
MAALAEA BOAT HARBOR	TRANSPORTATION	WAIKAPU	60101	GROUNWATER	POTAB.E	0.0185	0.0430	0.0677	0.0738	0.0800	
WAIHEHU - RESIDENCE LOTS	HAWAIIAN HOME LANDS	IJO	60102	GROUNWATER	POTAB.E	0.0375	0.0375	0.0375	0.0375	0.0375	TKM 3-2-13:8
PAUKUNALO - RESIDENCE LOTS UNIT4	HAWAIIAN HOME LANDS	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.0084	0.0084	0.0084	0.0084	
WAIHEHU ELDERLY	BUDGET & FINANCE	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.0210	0.0210	0.0210	0.0210	(WAIHEHU TERRACE, INCR. A, PHASE III)
PAUKUNALO - RESIDENCE LOTS UNIT 3 PH 3	HAWAIIAN HOME LANDS	IJO	60102	GROUNWATER	POTAB.E	0.0198	0.0198	0.0198	0.0198	0.0198	
MAUI LANI ELEMENTARY SCHOOL	EDUCATION	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.0600	0.0600	0.0600	0.0600	
WAILUKU II ELEMENTARY SCHOOL	EDUCATION	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.0600	0.0600	0.0600	0.0600	
MAUI COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	IJO	60102	GROUNWATER	POTAB.E	0.0126	0.0234	0.0234	0.0300	0.0300	
WAIHEHU	HUMAN SERVICES	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.0300	0.0300	0.0300	0.0300	
WAIHEHU STATE LAND B&C	BUDGET & FINANCE	IJO	60102	GROUNWATER	POTAB.E	0.0000	0.2904	0.2904	0.2904	0.2904	TKM 3-3-01:10
WAIHEHU EXPLORATORY W.E.L	LAND & NATURAL RESOURCES	WAIHEHU	60103	GROUNWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
* Substtotal *						0.0884	0.4732	0.6182	0.6309	0.6311	
* HYDROLOGIC SECTOR: LAHAINA											
HONOKOWAI RENTAL	BUDGET & FINANCE	HONOKOWAI	60203	GROUNWATER	POTAB.E	0.0000	0.1104	0.1104	0.1104	0.1104	TKM: 4-4-02:PR. 37
LAHAINA III ELEMENTARY SCHOOL	EDUCATION	HONOKOWAI	60203	GROUNWATER	POTAB.E	0.0000	0.0600	0.0600	0.0600	0.0600	
LAHAINA IV ELEMENTARY SCHOOL	EDUCATION	HONOKOWAI	60203	GROUNWATER	POTAB.E	0.0000	0.0600	0.0600	0.0600	0.0600	
WAHIKULI EXPLORATORY WELL	LAND & NATURAL RESOURCES	HONOKOWAI	60203	GROUNWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
MAHIEHAENA ELEMENTARY SCHOOL	EDUCATION	LAUNIPOKO	60204	GROUNWATER	POTAB.E	0.0600	0.0600	0.0600	0.0600	0.0600	
WAIHEHU	HUMAN SERVICES	LAUNIPOKO	60204	GROUNWATER	POTAB.E	0.0000	0.0571	0.0762	0.0762	0.0762	TKM 4-6-15:1
LAHAINA MASTER PLAN	BUDGET & FINANCE	LAUNIPOKO	60204	GROUNWATER	POTAB.E	0.0000	0.2361	0.8246	1.4973	2.1700	AGENCY ESTIMATE BASED ON 80 GPCD WATER CONSUMPTION
* Substtotal *						0.0600	0.4662	1.1912	1.8639	2.5316	
* HYDROLOGIC SECTOR: CENTRAL											
MAUI-MAENA INTERMEDIATE SCHOOL	EDUCATION	KAHULUI	60301	GROUNWATER	POTAB.E	0.0900	0.0900	0.0900	0.0900	0.0900	
KAHULUI AIRPORT ACCESS ROAD	TRANSPORTATION	KAHULUI	60301		IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	
KAHULUI HARBOR - 2010 MASTER PLAN	TRANSPORTATION	KAHULUI	60301	GROUNWATER	COMBINED	0.0449	0.0533	0.0697	0.0810	0.0900	
KAHULUI AIRPORT MASTER PLAN	TRANSPORTATION	KAHULUI	60301	GROUNWATER	COMBINED	0.2000	0.2500	0.3000	0.3500	0.4000	
MAUI CONSOLIDATED FACILITIES	DEFENSE	KAHULUI	60301	GROUNWATER	POTAB.E	0.0000	0.0000	0.0185	0.0185	0.0185	
KAHULUI CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	KAHULUI	60301	GROUNWATER	POTAB.E	0.0000	0.0131	0.0262	0.0262	0.0262	
UPCOUNTRY HIGH SCHOOL	EDUCATION	KAMAOLE	60303		POTAB.E	0.0000	0.1200	0.1200	0.1200	0.1200	
KULA - RESIDENCE LOTS WAIHULI 1, 2	HAWAIIAN HOME LANDS	KAMAOLE	60304	SURFACE	POTAB.E	0.0000	0.0000	0.1848	0.1848	0.1848	
KULA - KEOKEA AG LOTS	HAWAIIAN HOME LANDS	KAMAOLE	60304	SURFACE	COMBINED	0.0000	0.0000	0.0408	0.0408	0.0408	
KIHEI II ELEMENTARY SCHOOL	EDUCATION	KAMAOLE	60304	GROUNWATER	POTAB.E	0.0000	0.0000	0.0600	0.0600	0.0600	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
KULA - KEOKEA AG LOT	HAWAIIAN HOME LANDS	KAMAOLE	60304	SURFACE	IRRIGATION	.0000	0.0000	2.4000	2.4000	2.4000	
KULA - MASTER PLAN AIEA	HAWAIIAN HOME LANDS	KAMAOLE	60304	SURFACE	POTABLE	.0000	0.5250	1.0500	1.5750	2.1000	
MAUI RESEARCH & TECHNOLOGY CENTER	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KAMAOLE	60304	GROUNDWATER	POTABLE	.0000	0.0300	0.0300	0.0300	0.0300	KIHEI
* Subsubtotal *						.3349	1.0820	4.3900	4.9763	5.5303	
* HYDROLOGIC SECTOR: IANA HANA AIRPORT MASTER PLAN	TRANSPORTATION	KAWAIPAPA	60502		COMBINED	.0040	0.0080	0.0080	0.0100	0.0100	
* Subsubtotal *						.0040	0.0080	0.0080	0.0100	0.0100	
* HYDROLOGIC SECTOR: KAHIKUNUI KAHIKUNUI - LIVESTOCK	HAWAIIAN HOME LANDS	LUALAILUA	60603	GROUNDWATER	LIVESTOCK	.0100	0.0100	0.0100	0.0100	0.0100	MAUI FACTORS STOCKWATER WELL - 1760 PPM SALINE
KAHIKUNUI - HOMESTEAD	HAWAIIAN HOME LANDS	LUALAILUA	60603		POTABLE	.0000	0.0000	0.0000	0.0000	0.0100	TKM 1-9-01
* Subsubtotal *						.0100	0.0100	0.0100	0.0100	0.0200	
** Subtotal **						0.4973	2.0819	6.3586	7.6323	8.9352	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** ISLAND OF HAWAII											
* HYDROLOGIC SECTOR:											
HOLULOA/KAHAKAI ELEMENTARY SCHOOL	EDUCATION		80000		POTABLE	0.0000	0.0000	0.0000	0.0600	0.1600	LOCATION NOT YET DETERMINED
* Subsubtotal *						0.0000	0.0000	0.0000	0.0600	0.1600	
* HYDROLOGIC SECTOR: KOHALA											
NORTH KOHALA FARM LOTS	AGRICULTURE	HAWI	80101	SURFACE	IRRIGATION	0.0000	0.0000	3.7500	3.7500	3.7500	GOVERNOR'S AGRICULTURE COORDINATING COMMITTEE
KOHALA ARMORY	DEFENSE	WAIMANU	80102	GROUNDWATER	POTABLE	0.0014	0.0001	0.0021	0.0021	0.0021	
KAWAIIHAE - RESIDENCE LOTS MAKAI	HAWAIIAN HOME LANDS	HAHUKONA	80103		POTABLE	0.0000	0.0112	0.0132	0.0132	0.0132	
KAWAIIHAE - RESIDENCE LOTS (MAUKA)	HAWAIIAN HOME LANDS	HAHUKONA	80103		POTABLE	0.0000	0.1110	0.1170	0.1170	0.1170	
KAWAIIHAE HARBOR - 2010 MASTER PLAN	TRANSPORTATION	HAHUKONA	80103	GROUNDWATER	COMBINED	0.0416	0.0711	0.1007	0.1203	0.400	
KAWAIIHAE BOAT HARBOR	TRANSPORTATION	HAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0110	0.0540	0.0720	0.0900	
KAWAIIHAE - MASTER PLAN AREA	HAWAIIAN HOME LANDS	HAHUKONA	80103		POTABLE	0.0000	0.5210	1.0500	1.5750	2.000	
KAWAIIHAE EXPLORATORY WELL	LAND & NATURAL RESOURCES	HAHUKONA	80103	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
KAWAIIHAE I ELEMENTARY SCHOOL	EDUCATION	HAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	WITHIN OHHL PROJECT
KAWAIIHAE II ELEMENTARY	EDUCATION	HAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	WITHIN OHHL PROJECTS
KAWAIIHAE III ELEMENTARY	EDUCATION	HAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	WITHIN OHHL PROJECTS
KAWAIIHAE/WAIKOLOA INTERMEDIATE SCHOOL	EDUCATION	HAHUKONA	80103	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0900	0.0900	EITHER IN OHHL PROJECTS OR AT WAIKOLOA
* Subsubtotal *						0.0430	0.7454	5.1470	5.9196	6.4823	
* HYDROLOGIC SECTOR: EAST MAUNA KEA											
HONOKAA KNOLS	HUMAN SERVICES	HONOKAA	80201	GROUNDWATER	POTABLE	0.0000	0.0252	0.0375	0.0375	0.0375	
HAKAKUA AGRICULTURAL PARK	AGRICULTURE	HONOKAA	80201	SURFACE	IRRIGATION	0.0000	1.5000	1.5000	1.5000	1.5000	
HONOKAA ELEMENTARY SCHOOL	EDUCATION	HONOKAA	80201	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	
HUKUKULA - PASTURE LOTS	HAWAIIAN HOME LANDS	HAKALAAU	80203		POTABLE	0.0000	0.0072	0.0072	0.0072	0.0072	
HAWAII COMMUNITY CORRECTIONAL CENTER	PUBLIC SAFETY	ONOMEA	80204	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
* Subsubtotal *						0.0000	1.5484	1.5547	1.6147	1.6147	
* HYDROLOGIC SECTOR: WEST MAUNA KEA											
PUUKAPU - RESIDENCE LOTS (PUU PELEH)	HAWAIIAN HOME LANDS	WAIHEA	80301		POTABLE	0.0000	0.0165	0.0165	0.0165	0.0165	
LALAWILO/UPPER	BUDGET & FINANCE	WAIHEA	80301	GROUNDWATER	POTABLE	0.0000	0.1800	0.3000	0.3000	0.3000	TKM: 6-6-01:POR. 2
PUUKAPU - FARM LOTS UNIT 2, 2A	HAWAIIAN HOME LANDS	WAIHEA	80301		COMBINED	0.0000	0.0460	0.0450	0.0450	0.0450	
PUUKAPU - PASTURE LOTS	HAWAIIAN HOME LANDS	WAIHEA	80301		COMBINED	0.0000	0.0000	0.1104	0.1104	0.1104	
WAIKOLOA ELEMENTARY SCHOOL	EDUCATION	WAIHEA	80301		POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
WAIHEA AGRICULTURAL PARK - LALAWILO ADD	AGRICULTURE	WAIHEA	80301	SURFACE WATER	IRRIGATION	0.0000	0.0000	0.0000	0.4075	0.3150	
PUUKAPU - FARM LOTS UNITS 2, 2A (IRR.G)	HAWAIIAN HOME LANDS	WAIHEA	80301		IRRIGATION	0.0000	1.6000	1.6000	1.6000	1.3000	
PUUKAPU - PASTURE LOTS	HAWAIIAN HOME LANDS	WAIHEA	80301		PASTURE	0.0000	0.0000	0.0000	0.0000	0.0000	PASTURE CONSUMPTION TO BE DETERMINED
REHABILITATE UPPER HAKAKUA DITCH IN WAKES	AGRICULTURE	WAIHEA	80301	SURFACE	IRRIGATION	2.1150	2.1150	4.7000	4.7000	4.7000	
UPPER HAKAKUA DITCH IMPROVEMENTS	AGRICULTURE	WAIHEA	80301	SURFACE	IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF WAIHEA IRRIGATION SYSTEM IMPROVEMENTS
WAIHEA ELEMENTARY SCHOOL	EDUCATION	WAIHEA	80301	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
PUU KAPU SHALLOW WELL DEVELOPMENT	AGRICULTURE	WAIHEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.5000	0.5000	0.5000	PART OF WAIHEA IRRIGATION SYSTEM IMPROVEMENTS

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
PUU KAPU DEEP WELL DEVELOPMENT	AGRICULTURE	WAIKEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.7500	0.7500	0.7500	0.7500	PART OF WAIKEA IRRIGATION SYSTEM IMPROVEMENTS
WAIKEA-PAJUILO WATERSHED PROJECT	AGRICULTURE	WAIKEA	80301	SURFACE	IRRIGATION	2.0000	2.5000	2.5000	3.0000	4.0000	IN COOPERATION WITH DHHL
* Subtotal *						4.1150	7.2655	10.6419	11.5494	12.3569	
* HYDROLOGIC SECTOR: NORTHEAST MAUNA LOA											
PANAENA AGRICULTURAL PARK	AGRICULTURE	HILO	80401	GROUNDWATER	COMBINED	2.3000	2.3000	2.3000	2.3000	2.3000	
KEAKAHA - RESIDENCE LOTS UNIT 2	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0415	0.0415	0.0415	0.0415	
PANAENA - FARM LOTS (AUMAE ST)	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	COMBINED	0.0000	0.0305	0.0305	0.0305	0.0305	
WAIKEA - RESIDENCE LOTS UNIT 2A-5	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
PIIKOHUA MEADOWS	BUDGET & FINANCE	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0327	0.0327	0.0327	0.0327	TMK: 2-5-10-POR. 1
HALE NAMA OLAMA	BUDGET & FINANCE	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0378	0.0378	0.0378	0.0378	TMK: 2-4-01:158
PANAENA - FARM LOTS PUNA PAPAYA	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	COMBINED	0.0000	0.0130	0.0130	0.0130	0.0130	
PANAENA - RESIDENCE LOTS UNIT 4	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	POTABLE	0.0250	0.0250	0.0250	0.0250	0.0250	
HAWAII COMMUNITY COLLEGE	BUDGET & FINANCE	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0016	0.0020	0.0020	0.0020	TMK: 2-4-26:47
HILO HARBOR - 2010 MASTER PLAN	TRANSPORTATION	HILO	80401	GROUNDWATER	COMBINED	0.0421	0.0541	0.0661	0.0781	0.0900	
HILO INTERNATIONAL AIRPORT MASTER PLAN	TRANSPORTATION	HILO	80401	GROUNDWATER	COMBINED	0.0344	0.0424	0.0496	0.0800	0.0800	
WAIKEA UKA ELEMENTARY SCHOOL	EDUCATION	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.0600	0.0600	
HALE NANI WORK RELEASE CENTER	PUBLIC SAFETY	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
KULANI CORRECTIONAL CENTER - EXP	PUBLIC SAFETY	HILO	80401	SURFACE	COMBINED	0.0260	0.0260	0.1000	0.1000	0.0000	160 BEDS + AGRICULTURAL PROGRAM
HILO BAIT STATION - FRESH WATER	LAND & NATURAL RESOURCES	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0300	0.0300	0.0300	0.0300	
HILO BAIT STATION - BRACKISH WATER	LAND & NATURAL RESOURCES	HILO	80401	SURFACE	AQUACULTURE	0.0000	0.1500	0.1500	0.1500	0.1500	
HILO COURT COMPLEX	JUDICIARY	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0185	0.0180	0.0180	0.0180	PORTION TO BE SUPPLIED BY SURFACE WATER
PANAENA - FARM LOTS PUNA PAPAYA (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	IRRIGATION	0.0000	0.3000	0.3000	0.3000	0.3000	
PANAENA - FARM LOTS (AUMAE ST) (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401	GROUNDWATER	IRRIGATION	0.0000	0.6400	0.6400	0.6400	0.6400	
KONOHANA AGRICULTURAL COMPLEX	UNIVERSITY OF HAWAII	HILO	80401	GROUNDWATER	POTABLE	0.0073	0.0084	0.0095	0.0098	0.0100	
HAWAII TROPICAL AQUACULTURE CENTER-HILO	LAND & NATURAL RESOURCES	HILO	80401	GROUNDWATER	AQUACULTURE	0.0000	0.0000	0.0000	0.0000	0.0000	SATELLITE FACILITY
LOKAWI	HUMAN SERVICES	HILO	80401	GROUNDWATER	POTABLE	0.0000	0.0100	0.0100	0.0100	0.0100	
KEEAU ELEMENTARY SCHOOL	EDUCATION	KEAAU	80402	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
KEEAU HIGH SCHOOL	EDUCATION	KEAAU	80402	GROUNDWATER	POTABLE	0.0000	0.0000	0.0000	0.1200	0.2000	
OLAA ARMORY	DEFENSE	KEAAU	80402	GROUNDWATER	POTABLE	0.0043	0.0061	0.0061	0.0061	0.0061	
PANAENA AGRICULTURAL PROCESSING FACILITY	AGRICULTURE	KEAAU	80402	GROUNDWATER	POTABLE	0.0000	0.0001	0.0001	0.0001	0.0001	VERIFY PROJECT SCHEDULE
* Subtotal *						2.4391	3.7827	3.9419	4.1646	4.767	
* HYDROLOGIC SECTOR: SOUTHEAST MAUNA LOA											
PAHALA ARMORY	DEFENSE	NAALEHU	80503	GROUNDWATER	POTABLE	0.0016	0.0021	0.0021	0.0021	0.0021	
KAMAOA - PUREO FARM LOTS	HAWAIIAN HOME LANDS	KALAE	80504	GROUNDWATER	COMBINED	0.0000	0.0000	0.0250	0.0250	0.0250	
KAMAOA - PASTURE LOTS	HAWAIIAN HOME LANDS	KALAE	80504	GROUNDWATER	COMBINED	0.0000	0.0000	0.0125	0.0125	0.0125	
* Subtotal *						0.0016	0.0021	0.0396	0.0396	0.0396	
* HYDROLOGIC SECTOR: SOUTHWEST MAUNA LOA											
MILOLI SELF-HELP PROGRAM	BUDGET & FINANCE	KAAPUNA	80602	GROUNDWATER	POTABLE	0.0000	0.1470	0.1470	0.1470	0.1470	TMK: 8-3-04.7, 21 & 22
MILOLI SELF-HELP - RENTAL	BUDGET & FINANCE	KAAPUNA	80602	GROUNDWATER	POTABLE	0.0000	0.0068	0.0068	0.0068	0.0068	



STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMC (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
NEW KONAWEENA ELEMENTARY SCHOOL	EDUCATION	KEALAKEKUA	80603	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
KEALAKEKUA ARMORY	DEFENSE	KEALAKEKUA	80603	GROUNDWATER	POTABLE	0.0057	0.0082	0.0082	0.0082	0.0082	
KEEI NO. 4 EXPLORATORY WELL	LAND & NATURAL RESOURCES	KEALAKEKUA	80603	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
* Substtotal *						0.0057	0.2220	0.2220	0.2220	0.2220	
* HYDROLOGIC SECTOR: NORTHWEST MAUNA IOA											
WEST HAWAII (KONA, WAIKOLOA)	HUMAN SERVICES	AAAEHOOMALU	80701	GROUNDWATER	POTABLE	0.0000	0.0165	0.0220	0.0220	0.0220	
KEAHOE AGRICULTURAL PROCESSING FACILITY	AGRICULTURE	AAAEHOOMALU	80701	GROUNDWATER	POTABLE	0.0000	0.0010	0.0010	0.0010	0.0010	3 AC @ 250 GPD +2 UNITS @125 GPD
* Substtotal *						0.0000	0.0175	0.0230	0.0230	0.0230	
* HYDROLOGIC SECTOR: KILAUEA											
PAHOA AGRICULTURAL PARK PHASE I	AGRICULTURE	PAHOA	80801	GROUNDWATER	COMBINED	2.0500	2.0500	2.0500	2.0500	2.0500	
PAHOA AGRICULTURAL PARK PHASE II	AGRICULTURE	PAHOA	80801	GROUNDWATER	COMBINED	0.9450	0.9450	0.9450	0.9450	0.9450	
MAKUU - FARM LOTS (2 ACRES)	HAWAIIAN HOME LANDS	PAHOA	80801	GROUNDWATER	COMBINED	0.0000	0.0000	0.0250	0.0250	0.0250	
MAKUU - FARM LOTS (5 ACRE)	HAWAIIAN HOME LANDS	PAHOA	80801	GROUNDWATER	COMBINED	0.0000	0.0000	0.0635	0.0635	0.0635	
KEONEPOKO ELEMENTARY SCHOOL	EDUCATION	PAHOA	80801	GROUNDWATER	POTABLE	0.0000	0.0600	0.0600	0.0600	0.0600	
MAKUU - FARM LOTS (2 ACRES) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.2000	0.2000	0.2000	
MAKUU - FARM LOTS (5 ACRE) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801	GROUNDWATER	IRRIGATION	0.0000	0.0000	1.2700	1.2700	1.2700	
SPACE LAUNCH FACILITY - PALIMA POINT	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KEAHOE	80804	GROUNDWATER	COMBINED	0.0000	0.0000	0.1600	0.1600	0.1600	PALIMA PT. - RECOMMENDED SITE
* Substtotal *						2.9950	3.0550	4.7735	4.7735	4.7735	
* HYDROLOGIC SECTOR: HUALALAI											
OLD KONA AIRPORT EXPANSION	LAND & NATURAL RESOURCES	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.0000	0.1700	0.1700	0.1700	
HONOKOHU HARBOR EXPANSION	TRANSPORTATION	KEAHOE	80901	GROUNDWATER	POTABLE	0.0822	0.0965	0.1134	0.1204	0.1300	ULTIMATE DEMAND BASED ON WATER MASTER PLAN
HAWAII OCEAN SCIENCE & TECHNOLOGY PARK	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KEAHOE	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.3900	0.3900	0.3900	
NATURAL ENERGY LABORATORY OF HAWAII	BUSINESS ECONOMIC DEVELOPMENT & TOURISM	KEAHOE	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.1200	0.1200	0.1200	
KEAHOE AIRPORT	TRANSPORTATION	KEAHOE	80901	GROUNDWATER	POTABLE	0.1000	0.1800	0.2500	0.3300	0.3300	
COASTAL PARK - MAHAIULA/MAKALAWENA/E/C	LAND & NATURAL RESOURCES	KEAHOE	80901	GROUNDWATER	COMBINED	0.0000	0.0000	0.0000	0.0000	0.0000	
KE-AHOLE AGRICULTURAL PARK PHASE I	AGRICULTURE	KEAHOE	80901	GROUNDWATER	COMBINED	0.3250	0.3250	0.3250	0.3250	0.3250	
KE-AHOLE AGRICULTURAL PARK PHASE II	AGRICULTURE	KEAHOE	80901	GROUNDWATER	COMBINED	0.5700	0.5700	0.5700	0.5700	0.5700	
KEALAKEHE PLANNED COMMUNITY - PHASE I	BUDGET & FINANCE	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.2700	0.2700	0.2700	0.2700	TKM: 7-4-08:POR. 17, TKM: 7-4-19:POR. 43
KEALAKEHE PLANNED COMMUNITY (LA'I'OPIA)	BUDGET & FINANCE	KEAHOE	80901	GROUNDWATER	POTABLE	0.7000	1.4000	2.1000	2.8000	3.5000	TKM: 7-4-08:POR. 17 (VERIFY)
KEALAKEHE HIGH SCHOOL	EDUCATION	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.1200	0.1200	0.1200	0.1200	
KEALAKEHE II ELEMENTARY SCHOOL	EDUCATION	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.0000	0.0600	0.0600	0.0600	
WEST HAWAII DETENTION CENTER	PUBLIC SAFETY	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.0000	0.0100	0.0100	0.0100	
HUALALAI EXPLORATORY WELL	LAND & NATURAL RESOURCES	KEAHOE	80901	GROUNDWATER	EXPLORATORY	0.0000	0.0000	0.0000	0.0000	0.0000	
KONA CIVIC CENTER	ACCOUNTING & GENERAL SERVICES	KEAHOE	80901	GROUNDWATER	POTABLE	0.0000	0.0450	0.0900	0.0900	0.0900	
LIVESTOCK FEED LOT & RENDERING FACILITY	AGRICULTURE	K.HOLO	80902	GROUNDWATER	POTABLE	0.0000	0.5000	0.5000	0.5000	0.5000	ALTERNATE SITE FOR LIVESTOCK AG PARK
WEST HAWAII LIVESTOCK FEEDLOT	AGRICULTURE	K.HOLO	80902	GROUNDWATER	POTABLE	0.0000	0.5000	0.5000	0.5000	0.5000	ALTERNATE SITE FOR LIVESTOCK AG PARK
* Substtotal *						1.7772	4.0065	5.5884	6.3754	7.0850	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
						1,3766	20,642	31,320	34,7418	37,437	
						2,2961	60,820	98,5287	123,5084	141,4724	

\*\* Subtotal \*\*

\*\*\* Total \*\*\*

# **APPENDIX G**

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**LISTING OF PROJECTED STATE PROJECT IRRIGATION WATER  
NEEDS BY HYDROGRAPHIC AREAS**

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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**IRRIGATION ONLY**

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990 PROJ DMD (MGD)	1995 PROJ DMD (MGD)	2000 PROJ DMD (MGD)	2005 PROJ DMD (MGD)	2010 PROJ DMD (MGD)	REMARKS
** ISLAND OF KAUAI											
* HYDROLOGIC SECTOR: LIHUE											
WAILUA AGRICULTURAL PARK	AGRICULTURE	WAILUA	20103	SURFACE WATER	IRRIGATION	0.0000	0.5000	1.0000	1.0000	1.0000	ALTERNATE SITE FOR KAUAI AG PARK
KAWAI BRANCH STATION - IRRIGATION	UNIVERSITY OF HAWAII	WAILUA	20103	SURFACE	IRRIGATION	0.0510	0.028	0.0540	0.0570	0.0600	
MOLIAA AGRICULTURAL PARK	AGRICULTURE	ANAHOLA	20104	GROUNDWATER	IRRIGATION	0.0000	1.9000	3.8000	3.8000	3.8000	ALTERNATE SITE FOR KAUAI AG PARK
ANAHOLA - NORTH (IRIG)	HAWAIIAN HOME LANDS	ANAHOLA	20104		IRRIGATION	0.0402	0.0102	0.0600	0.0600	0.0600	
KEALIA AGRICULTURAL PARK	AGRICULTURE	ANAHOLA	20104	SURFACE	IRRIGATION	0.0000	0.7000	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
* Subtotal *						0.0912	3.2130	6.4140	6.4170	6.4200	
* HYDROLOGIC SECTOR: WAINEA											
WAINEA - PUU OPAE - IRRIGATION	HAWAIIAN HOME LANDS	KEKAHA	20301		IRRIGATION	0.0000	0.4000	0.9000	1.3500	1.8000	
WAINEA AGRICULTURAL PARK	AGRICULTURE	KEKAHA	20301	SURFACE	IRRIGATION	0.0000	0.7000	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
HANAPEPE AGRICULTURAL PARK	AGRICULTURE	MAKAWELI	20303	SURFACE	IRRIGATION	0.0000	0.7000	1.5000	1.5000	1.5000	ALTERNATE SITE FOR KAUAI AG PARK
* Subtotal *						0.0000	1.9000	3.9000	4.3500	4.8000	
** Subtotal **						0.0912	5.1930	10.3140	10.7670	11.2200	

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
=====

**IRRIGATION ONLY**

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** ISLAND OF OAHU											
* HYDROLOGIC SECTOR: HONOLULU											
CENTRAL OFFICE COMPLEX	HUMAN SERVICES	KALIHI	30103	GROUNDWATER	IRRIGATION	0.0000	0.0005	0.0005	0.0005	0.0005	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
KALANIANA'OLE HWY - PH I	TRANSPORTATION	WAI'ALAE	30105	GROUNDWATER	IRRIGATION	0.0430	0.0215	0.0215	0.0215	0.0215	0.0215 WAILUPE CIRCLE TO E. HALEMAUMAU ST
KALANIANA'OLE HWY PH II	TRANSPORTATION	WAI'ALAE	30105	GROUNDWATER	IRRIGATION	0.0000	0.1116	0.0058	0.0058	0.0058	E. HALEMAUMAU ST. TO KULI'OUOU ST.
KALANIANA'OLE HWY PH III	TRANSPORTATION	WAI'ALAE	30105	GROUNDWATER	IRRIGATION	0.0000	0.1152	0.0076	0.0076	0.0076	KULI'OUOU ST. TO KEAHOLE ST.
* Subsubtotal *						0.0430	0.1488	0.0354	0.0354	0.0354	
* HYDROLOGIC SECTOR: PEARL HARBOR											
H-3 NORTH HALAWA VALLEY HWY UNIT 1A	TRANSPORTATION	WAI'MALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.1386	0.1193	0.1193	0.1193	
H-3 NORTH HALAWA VALLEY HWY UNIT 1B	TRANSPORTATION	WAI'MALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.1444	0.1222	0.1222	0.1222	
H-3 NORTH HALAWA VALLEY HWY UNIT 1B	TRANSPORTATION	WAI'MALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.1038	0.1019	0.1019	0.1019	
HALE LAULIMA HA 1-27	HUMAN SERVICES	WAI'MALU	30201	GROUNDWATER	IRRIGATION	0.0000	0.0023	0.0023	0.0023	0.0023	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
WAI'ANA CORRECTIONAL FACILITY - AGI	PUBLIC SAFETY	WAI'ANA	30202	SURFACE	IRRIGATION	0.0496	0.1496	0.6200	0.6200	0.6200	WAI'AHOLE IRRIGATION DITCH WATER
PEARL CITY URBAN GARDEN CENTER	UNIVERSITY OF HAWAII	WAI'ANA	30202	GROUNDWATER	IRRIGATION	0.0003	0.0035	0.0068	0.0084	0.0100	
FORT WEAVER ROAD REN'ON RD-HANAKOHI ST	TRANSPORTATION	WAI'PAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.1654	0.1327	0.1327	0.1327	
FORT WEAVER ROAD LANDSCAPING	TRANSPORTATION	WAI'PAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.1852	0.1426	0.1426	0.1426	FARRINGTON HIGHWAY TO REN'ON ROAD
H-1 KUNIA INTERCHANGE LANDSCAPING	TRANSPORTATION	WAI'PAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.920	0.0960	0.0960	0.0960	
KUNIA ROAD LANDSCAPING	TRANSPORTATION	WAI'PAHU	30203	GROUNDWATER	IRRIGATION	0.0000	0.4800	0.0400	0.0400	0.0400	H-1 TO FARRINGTON HWY
H-1 PAIWA INTERCHANGE LANDSCAPING	TRANSPORTATION	EMA	30204	GROUNDWATER	IRRIGATION	0.0000	0.082	0.0649	0.0649	0.0649	
KUNIA RD/FARRINGTON HWY INTERCHANGE	TRANSPORTATION	KUNIA	30205	GROUNDWATER	IRRIGATION	0.0000	0.1513	0.0908	0.0908	0.0908	
* Subsubtotal *						0.0499	1.1243	1.5395	1.5411	1.5427	
* HYDROLOGIC SECTOR: WAI'ANA											
LU'ALUALEI - PAHEEHEE/CARLOS (IRRIG)	HAWAIIAN HOME LANDS	LU'ALUALEI	30302	GROUNDWATER	IRRIGATION	0.0000	0.1660	0.1320	0.1320	0.1320	
WAI'ANA - SUNFLOWER HA 1-57	HUMAN SERVICES	WAI'ANA	30303	GROUNDWATER	IRRIGATION	0.0000	0.1065	0.0065	0.0065	0.0065	IRRIGATION SYSTEM TO BE ADDED TO EXIST PROJECT
* Subsubtotal *						0.0000	0.1725	0.1385	0.2045	0.2705	
* HYDROLOGIC SECTOR: NORTH											
KAEHANEHA HWY LANDSCAPING PH II	TRANSPORTATION	WAI'ALUA	30402	GROUNDWATER	IRRIGATION	0.0000	0.1886	0.0943	0.0943	0.0943	WEED JCT. TO HALEIWA
WAI'ALEE LIVESTOCK RESEARCH FARM	UNIVERSITY OF HAWAII	KAWAIILOA	30403	GROUNDWATER	IRRIGATION	0.0900	0.1900	0.0900	0.0900	0.0900	SPRING FEI POND
* Subsubtotal *						0.0900	0.1786	0.1843	0.1843	0.1843	
* HYDROLOGIC SECTOR: CENTRAL											
POI'MOHO EXPERIMENT STATION (IRRIGATION)	UNIVERSITY OF HAWAII	WAI'ANA	30501	SURFACE	IRRIGATION	0.0646	0.1693	0.0740	0.0780	0.0820	
* Subsubtotal *						0.0646	0.1693	0.0740	0.0780	0.0820	
* HYDROLOGIC SECTOR: WINDWARD											
WAI'MANALO AGRICULTURAL PARK	AGRICULTURE	WAI'MANALO	30601	SURFACE WATER	IRRIGATION	0.9800	0.1800	0.9800	0.9800	0.9800	WAI'MANALO IRRIGATION SYSTEM & HONOLULU BWS

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STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
=====

IRRIGATION ONLY

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
KAHUNA IRRIGATION SYSTEM (CONVERSION)	AGRICULTURE	KOOLAULOA	30601	GROUNDWATER	IRRIGATION	0.5000	1.0000	1.0000	1.0000	1.0000	
WAIAROLE DITCH BULKHEAD PROJECT	LAND & NATURAL RESOURCES	KAHANA	30602	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	
H-3 PANEONE INTERCHANGE	TRANSPORTATION	KOOLAUPOKO	30603		IRRIGATION	0.0000	0.6692	0.4015	0.4015	0.4015	
HAWAII STATE VETERANS CEMETERY	DEFENSE	KOOLAUPOKO	30603	GROUNDWATER	IRRIGATION	0.0000	0.2399	0.2399	0.2399	0.2399	WELLS OWNED BY VETERANS CEMETERY
WAIMANALO EXPERIMENT STATION (IRRIG)	UNIVERSITY OF HAWAII	WAIMANALO	30604	SURFACE	IRRIGATION	0.0180	0.0193	0.0205	0.0212	0.0219	WAIMANALO IRRIGATION SYSTEM
REHABILITATE MAUNAKILI DITCH INTAKE	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION	1.8000	1.8000	2.4000	3.0000	3.0000	
WAIMANALO WATERSHED PROJECT	AGRICULTURE	WAIMANALO	30604	SURFACE	IRRIGATION	1.2000	1.5000	1.7499	1.7499	2.0001	IMPROVEMENT OF WAIMANALO IRRIGATION SYSTEM
* Subtotal *						4.4980	6.2044	6.7918	7.3925	7.6434	
** Suttal **						4.7455	8.5099	8.7635	9.4358	9.7583	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE

**IRRIGATION ONLY**

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
<b>** ISLAND OF MOLOKAI</b>											
<b>* HYDROLOGIC SECTOR: CENTRAL</b>											
HOOLEHUA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	MAUNAWAIHI	40202		IRRIGATION	1.2300	5.9240	10.6160	15.3080	20.0400	MOLOKAI IRRIGATION SYSTEM?
KALAMUHA FARM LOTS - IRRIGATION	HAWAIIAN HOME LANDS	KUALAPUU	40203		IRRIGATION	1.2100	1.7500	3.5000	5.2500	7.0000	
REHABILITATE DHHL KAIAE SURFACE SOURCE	AGRICULTURE	KUALAPUU	40203	SURFACE	IRRIGATION	1.0000	0.2000	0.2000	0.2000	0.2000	
MOLOKAI APPLIED RESEARCH FARM	UNIVERSITY OF HAWAII	HOOLEHUA	40210	SURFACE	IRRIGATION	1.0104	0.0292	0.0480	0.0540	0.0400	MOLOKAI IRRIGATION SYSTEM
<b>* Substtotal *</b>						1.4504	7.9032	14.3640	20.8120	27.2400	
<b>* HYDROLOGIC SECTOR: NORTHEAST</b>											
WAIKOLU WELL DEVELOPMENT - PHASE II	AGRICULTURE	WAIKOLU	40403	GROUNDWATER	IRRIGATION	1.0000	0.7500	0.7500	0.7500	0.7500	PROPOSED SOURCE FOR MOLOKAI IRRIGATION SYSTEM
PELEKUNU WATER SOURCE & STORAGE	AGRICULTURE	PELEKUNU	40405	SURFACE	IRRIGATION	1.0000	0.0000	0.0000	9.3750	12.5000	IN COOPERATION WITH DHHL
<b>* Substtotal *</b>						1.0000	0.7500	0.7500	10.1250	13.2500	
<b>** Subtotal **</b>						1.4504	8.6532	15.1140	30.9370	40.5000	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
=====

IRRIGATION ONLY

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** ISLAND OF LANAI											
* HYDROLOGIC SECTOR: CENTRAL LANAI AGRICULTURAL PARK	AGRICULTURE	LEEWARD	50102	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.0000	0.2500	0.5000	
* Subsubtotal *						0.0000	0.0000	0.0000	0.2500	0.5000	
** Sbttotal **						0.0000	0.0000	0.0000	0.2500	0.5000	



STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE  
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IRRIGATION ONLY

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
** ISLAND OF MAUI											
* HYDROLOGIC SECTOR: CENTRAL											
KAHULUI AIRPORT ACCESS ROAD	TRANSPORTATION	KAHULUI	60301		IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	
KULA - KEOKEA AG LOTS	HAWAIIAN HOME LANDS	KAMAOLE	60304	SURFACE	IRRIGATION	0.0000	0.0000	2.4000	2.4000	2.4000	
* Subsubtotal *						0.0000	0.0000	2.4000	2.4000	2.4000	
** Subtotal **						0.0000	0.0000	2.4000	2.4000	2.4000	

STATE WATER PROJECTS PLAN  
HAWAII WATER PLAN  
LISTING OF PROJECTS BY AQUIFER CODE

**IRRIGATION ONLY**

PROJECT NAME	DEPARTMENT	AQUIFER SYSTEM	CODE	SOURCE TYPE	PRIMARY USE	1990	1995	2000	2005	2010	REMARKS
						PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	PROJ DMD (MGD)	
<b>** ISLAND OF HAWAII</b>											
* HYDROLOGIC SECTOR: KOHALA											
NGRTH KOHALA FARM LOTS	AGRICULTURE	HAWI	80101	SURFACE	IRRIGATION	0.0000	0.0000	3.7500	3.7500	3.7500	GOVERNOR'S AGRICULTURE COORDINATING COMMITTEE
* Subsubtotal *						0.0000	0.0000	3.7500	3.7500	3.7500	
* HYDROLOGIC SECTOR: EAST MAUNA KEA											
HAMAKUA AGRICULTURAL PARK	AGRICULTURE	HONOKAA	80201	SURFACE	IRRIGATION	0.0000	1.5000	1.5000	1.5000	1.5000	
* Subsubtotal *						0.0000	1.5000	1.5000	1.5000	1.5000	
* HYDROLOGIC SECTOR: WEST MAUNA KEA											
WAIMEA AGRICULTURAL PARK - LALANILO ADD	AGRICULTURE	WAIMEA	80301	SURFACE WATER	IRRIGATION	0.0000	0.0000	0.0000	0.4075	0.8150	
PLUKAPU - FARM LOTS UNITS 2,2A (IRRIG)	HAWAIIAN HOME LANDS	WAIMEA	80301	SURFACE	IRRIGATION	0.0000	1.6000	1.6000	1.6000	1.6000	
REHABILITATE UPPER HAMAKUA DITCH INTAKES	AGRICULTURE	WAIMEA	80301	SURFACE	IRRIGATION	2.1150	2.1150	4.7000	4.7000	4.7000	
UPPER HAMAKUA DITCH IMPROVEMENTS	AGRICULTURE	WAIMEA	80301	SURFACE	IRRIGATION	0.0000	0.0000	0.0000	0.0000	0.0000	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
PLU KAPU SHALLOW WELL DEVELOPMENT	AGRICULTURE	WAIMEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.0000	0.5000	0.5000	0.5000	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
PLU KAPU DEEP WELL DEVELOPMENT	AGRICULTURE	WAIMEA	80301	GROUNDWATER	IRRIGATION	0.0000	0.7500	0.7500	0.7500	0.7500	PART OF WAIMEA IRRIGATION SYSTEM IMPROVEMENTS
WAIMEA-PAUUILO WATERSHED PROJECT	AGRICULTURE	WAIMEA	80301	SURFACE	IRRIGATION	2.0000	2.5000	2.5000	3.0000	4.0000	IN COOPERATION WITH DHHL
* Subsubtotal *						4.1150	6.9650	10.0500	10.9575	11.3650	
* HYDROLOGIC SECTOR: NORTHEAST MAUNA LOA											
PANAENA - FARM LOTS PUNA PAPAYA (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401	SURFACE	IRRIGATION	0.0000	0.3000	0.3000	0.3000	0.3000	
PANAENA - FARM LOTS (AUNAE ST) (IRRIG)	HAWAIIAN HOME LANDS	HILO	80401	SURFACE	IRRIGATION	0.0000	0.6400	0.6400	0.6400	0.6400	
* Subsubtotal *						0.0000	0.9400	0.9400	0.9400	0.9400	
* HYDROLOGIC SECTOR: KILAUEA											
MAKUU - FARM LOTS (2 ACRES) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801	SURFACE	IRRIGATION	0.0000	0.0000	0.2000	0.2000	0.2000	
MAKUU - FARM LOTS (5 ACRE) (IRRIG)	HAWAIIAN HOME LANDS	PAHOA	80801	SURFACE	IRRIGATION	0.0000	0.0000	1.2700	1.2700	1.2700	
* Subsubtotal *						0.0000	0.0000	1.4700	1.4700	1.4700	
** Subtotal **						4.1150	9.4050	17.7100	18.6175	20.0250	
*** Total ***						10.4021	31.7531	54.3015	72.4073	84.4133	

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