

- Legend**
- System Components**
- Canal, Active
 - Canal, Inactive
 - Canal, Unverified
 - Ditch, Active
 - Ditch, Inactive
 - Ditch, Unverified
 - + Flume, Active
 - + Flume, Inactive
 - + Flume, Unverified
 - Penstock, Active
 - Penstock, Inactive
 - Penstock, Unverified
 - Pipeline, Active
 - Pipeline, Inactive
 - Pipeline, Unverified
 - Siphon, Active
 - Siphon, Inactive
 - Siphon, Unverified
 - Tunnel, Active
 - Tunnel, Inactive
 - Tunnel, Unverified
 - Utilized Stream
 - Reservoir, Active
 - Reservoir, Inactive
 - Reservoir, Unverified
 - Regulated Dam
 - ⊗ Removed Dam
 - ⊕ Pump, Active
 - ⬠ Spring, Active
 - ⬠ Spring, Inactive
 - ▲ Stream Diversion, Active
 - ▲ Stream Diversion, Inactive
 - ⊙ Well, Active
 - ⊙ Well, Inactive
 - ⊙ Unverified Intake
 - Service Area
 - Neighboring Alignments
 - Isohyets

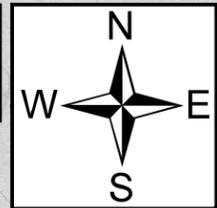
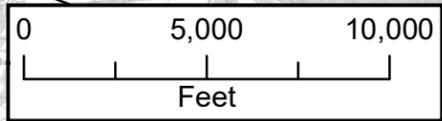
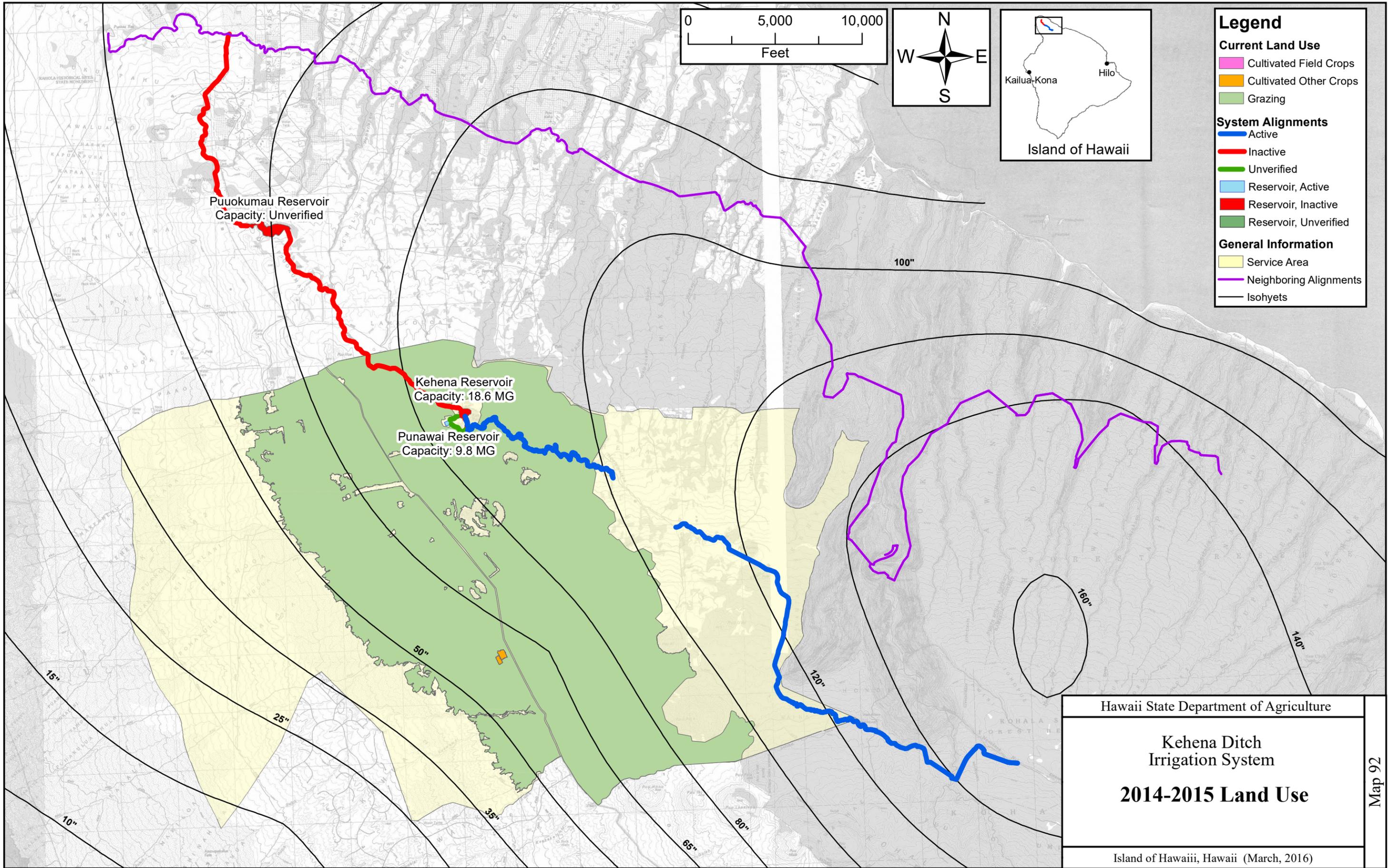
Hawaii State Department of Agriculture

Kehena Ditch
Irrigation System

**Alignments and
System Components**

Island of Hawaii, Hawaii (March, 2016)

Map 91



Legend

Current Land Use

- Cultivated Field Crops
- Cultivated Other Crops
- Grazing

System Alignments

- Active
- Inactive
- Unverified
- Reservoir, Active
- Reservoir, Inactive
- Reservoir, Unverified

General Information

- Service Area
- Neighboring Alignments
- Isohyets

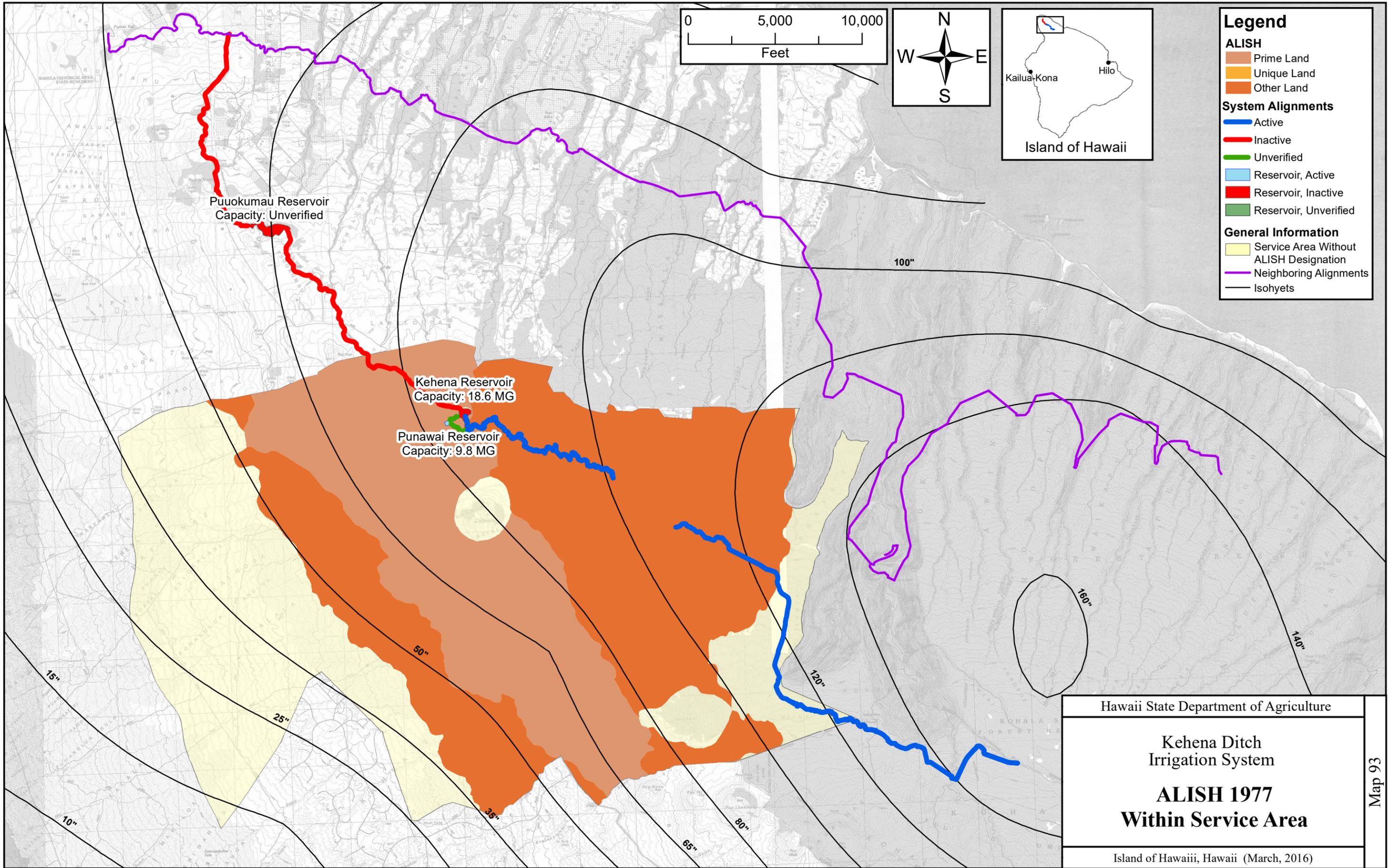
Hawaii State Department of Agriculture

Kehena Ditch
Irrigation System

2014-2015 Land Use

Island of Hawaii, Hawaii (March, 2016)

Map 92



Legend

ALISH

- Prime Land
- Unique Land
- Other Land

System Alignments

- Active
- Inactive
- Unverified
- Reservoir, Active
- Reservoir, Inactive
- Reservoir, Unverified

General Information

- Service Area Without ALISH Designation
- Neighboring Alignments
- Isohyets

Hawaii State Department of Agriculture

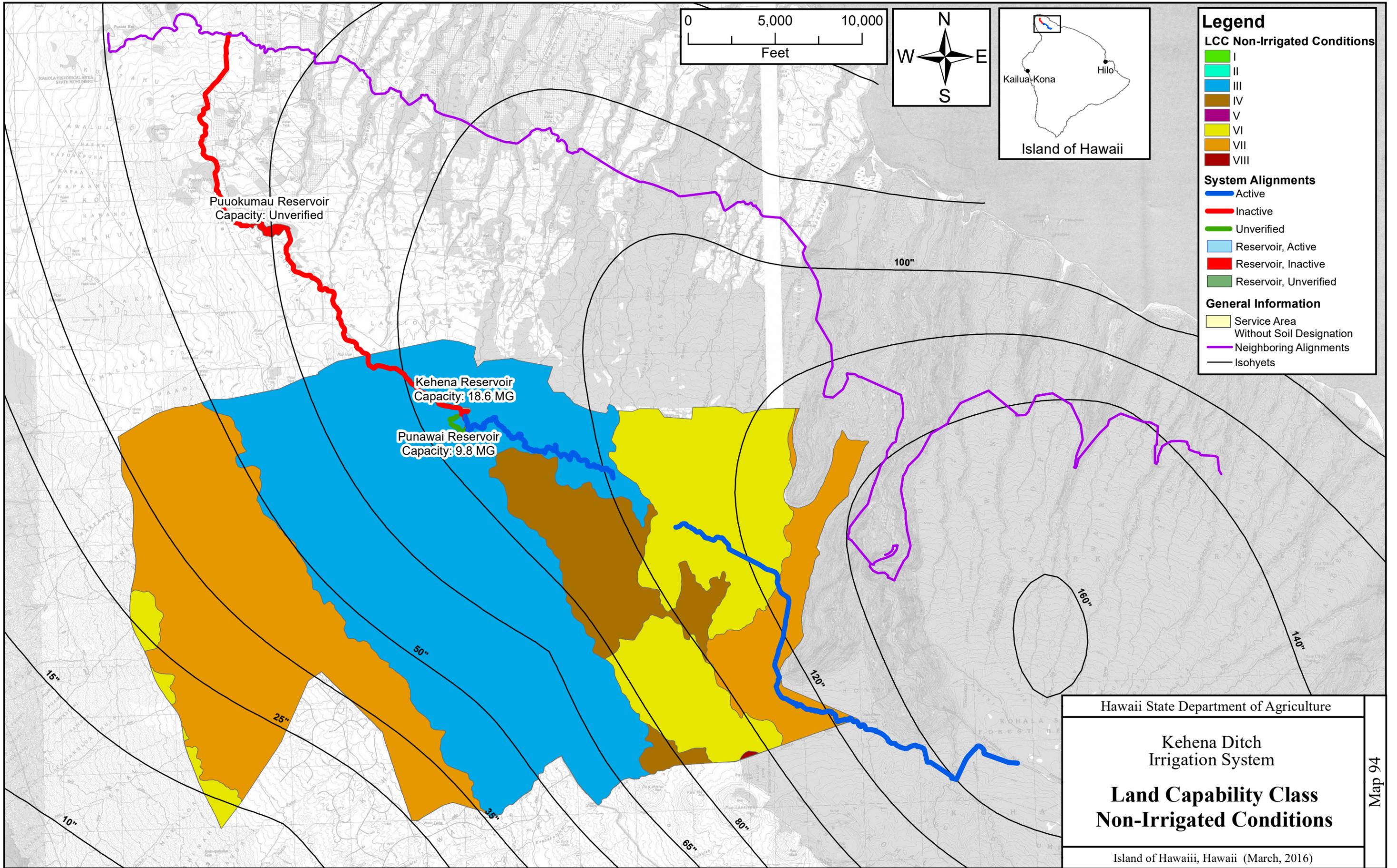
Kehena Ditch
Irrigation System

ALISH 1977
Within Service Area

Island of Hawaii, Hawaii (March, 2016)

Map 93

NAD 83, UTM Zone 4N



Legend

LCC Non-Irrigated Conditions

- I
- II
- III
- IV
- V
- VI
- VII
- VIII

System Alignments

- Active
- Inactive
- Unverified
- Reservoir, Active
- Reservoir, Inactive
- Reservoir, Unverified

General Information

- Service Area Without Soil Designation
- Neighboring Alignments
- Isohyets

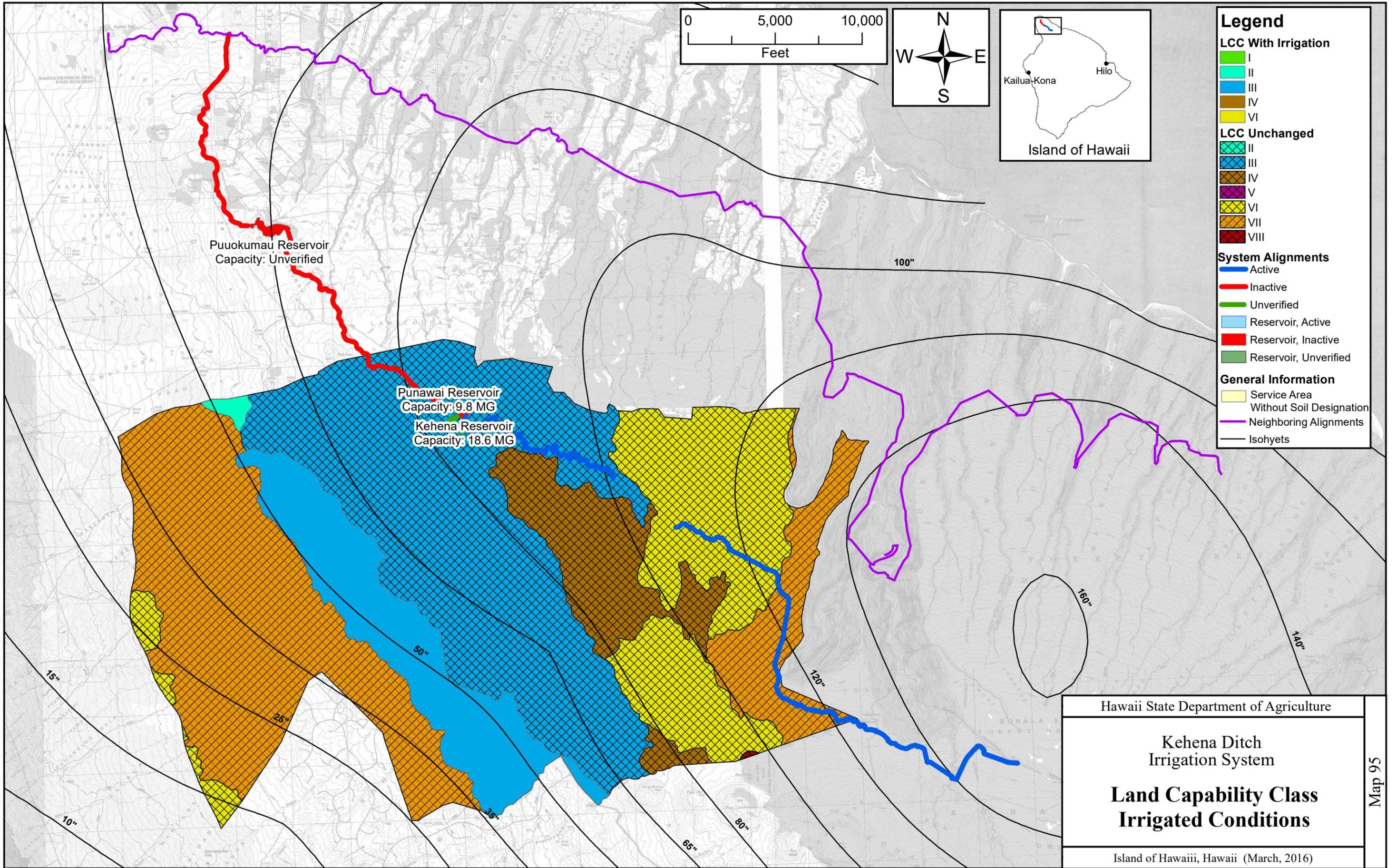
Hawaii State Department of Agriculture

Kehena Ditch Irrigation System

Land Capability Class Non-Irrigated Conditions

Island of Hawaii, Hawaii (March, 2016)

Map 94



Legend

LCC With Irrigation

- I
- II
- III
- IV
- VI

LCC Unchanged

- II
- III
- IV
- V
- VI
- VII
- VIII

System Alignments

- Active
- Inactive
- Unverified
- Reservoir, Active
- Reservoir, Inactive
- Reservoir, Unverified

General Information

- Service Area Without Soil Designation
- Neighboring Alignments
- Isohyets

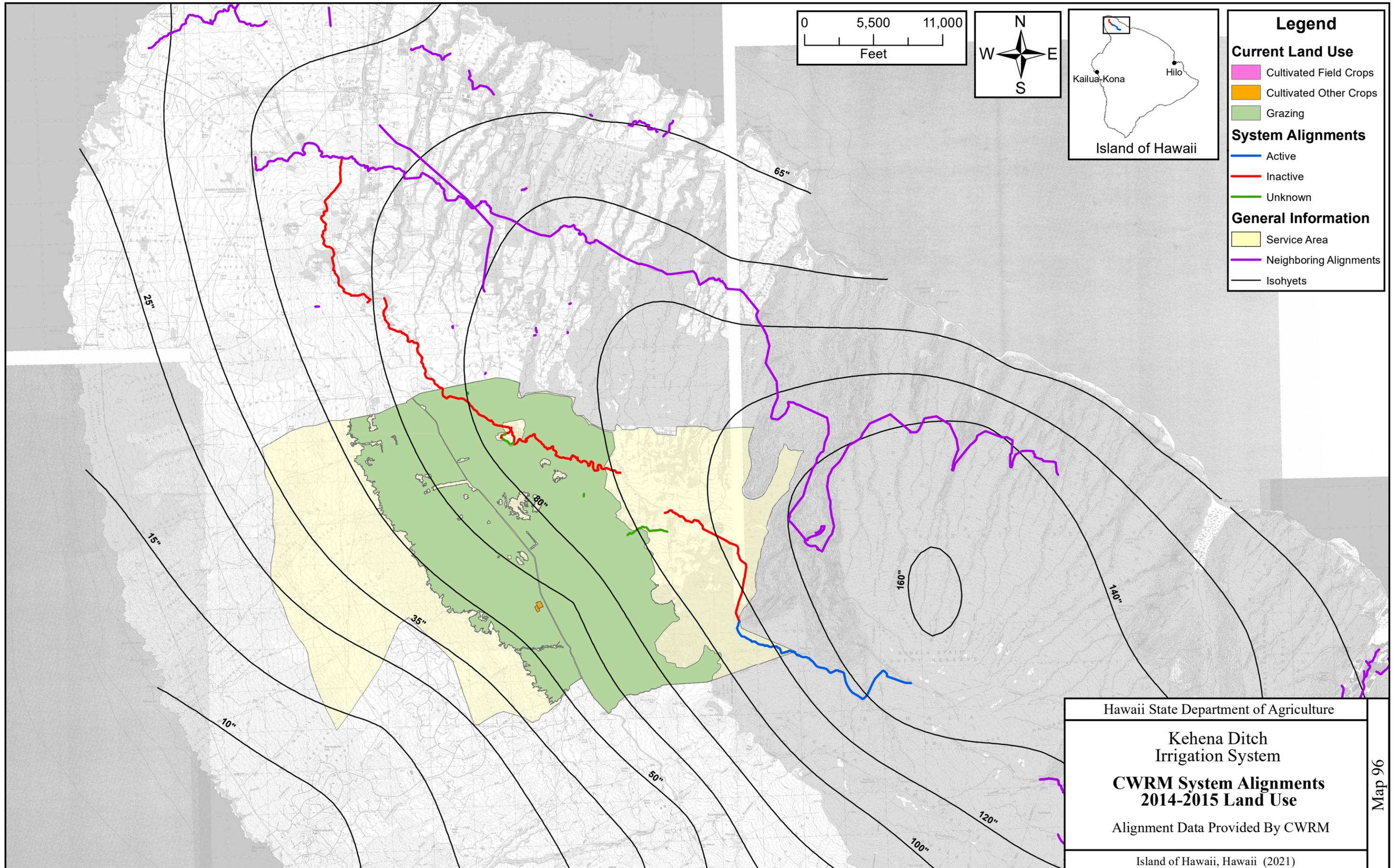
Hawaii State Department of Agriculture

Kehena Ditch
Irrigation System

**Land Capability Class
Irrigated Conditions**

Island of Hawaii, Hawaii (March, 2016)

Map 95



Legend

Current Land Use

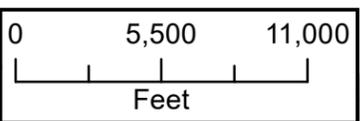
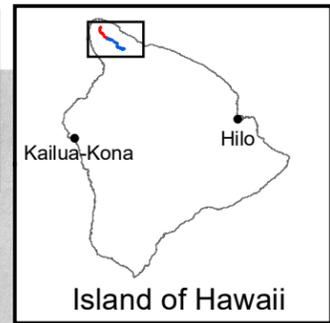
- Cultivated Field Crops
- Cultivated Other Crops
- Grazing

System Alignments

- Active
- Inactive
- Unknown

General Information

- Service Area
- Neighboring Alignments
- Isohyets



Hawaii State Department of Agriculture

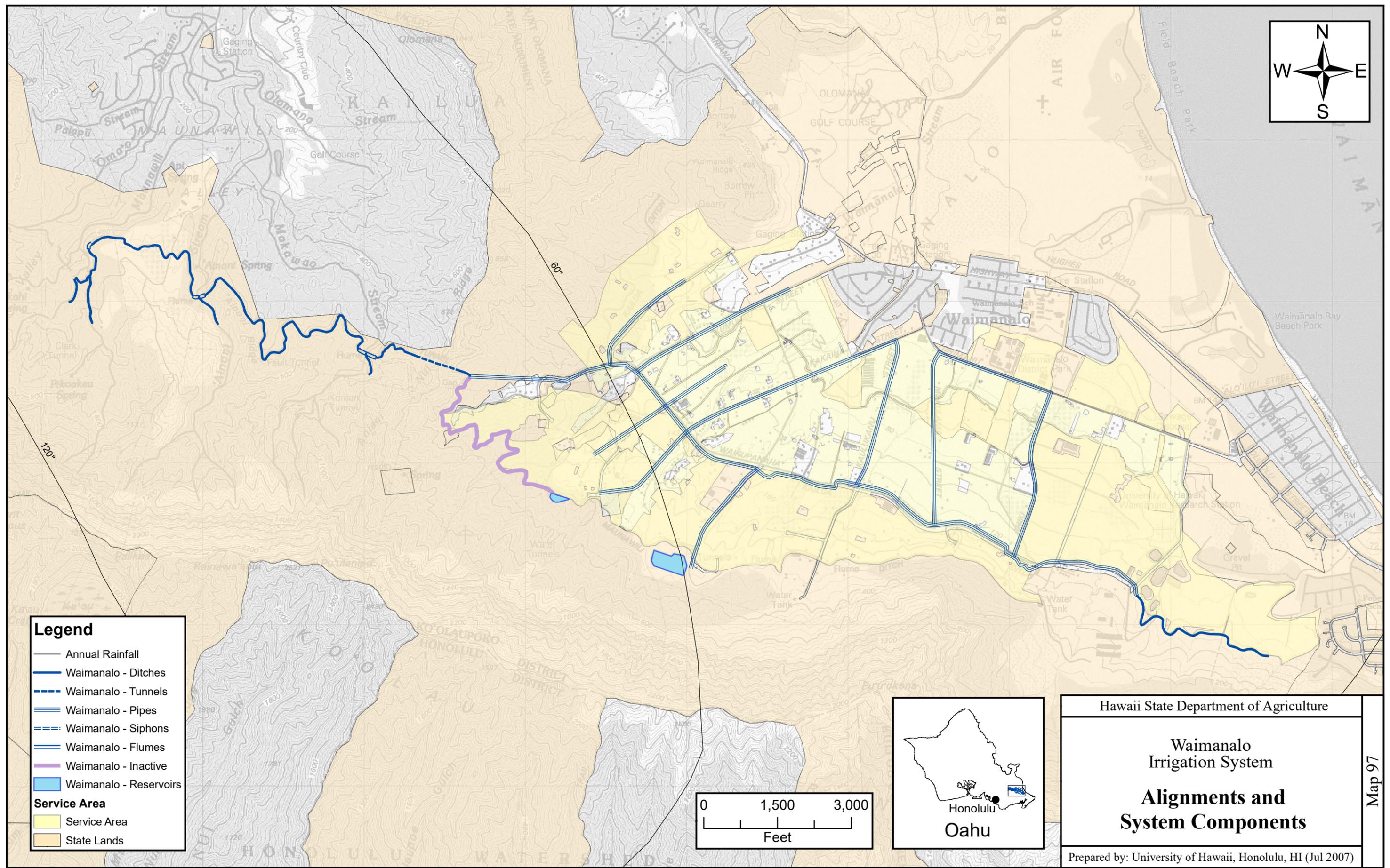
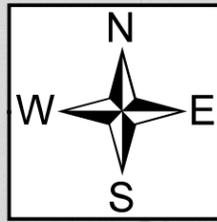
Kehena Ditch
Irrigation System

**CWRM System Alignments
2014-2015 Land Use**

Alignment Data Provided By CWRM

Island of Hawaii, Hawaii (2021)

Map 96

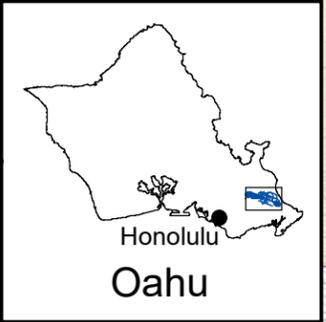
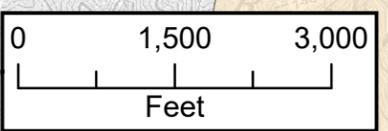


Legend

- Annual Rainfall
- Waimanalo - Ditches
- - - Waimanalo - Tunnels
- ==== Waimanalo - Pipes
- ==== Waimanalo - Siphons
- ==== Waimanalo - Flumes
- Waimanalo - Inactive
- Waimanalo - Reservoirs

Service Area

- Service Area
- State Lands



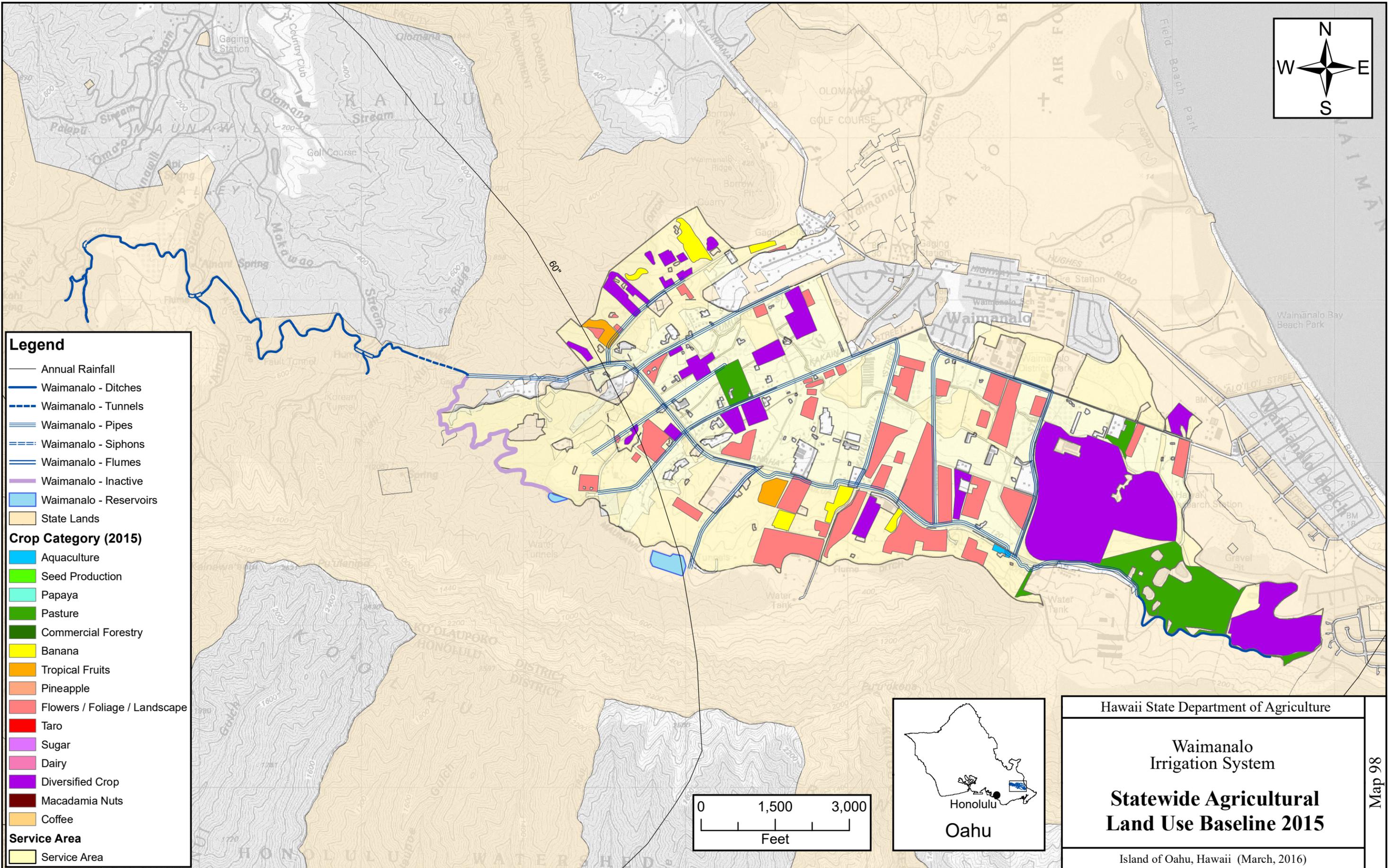
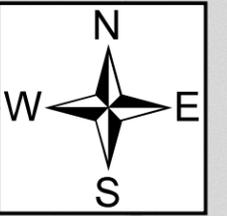
Hawaii State Department of Agriculture

**Waimanalo
Irrigation System**

**Alignments and
System Components**

Prepared by: University of Hawaii, Honolulu, HI (Jul 2007)

Map 97



Legend

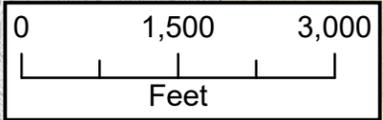
- Annual Rainfall
- Waimanalo - Ditches
- Waimanalo - Tunnels
- Waimanalo - Pipes
- Waimanalo - Siphons
- Waimanalo - Flumes
- Waimanalo - Inactive
- Waimanalo - Reservoirs
- State Lands

Crop Category (2015)

- Aquaculture
- Seed Production
- Papaya
- Pasture
- Commercial Forestry
- Banana
- Tropical Fruits
- Pineapple
- Flowers / Foliage / Landscape
- Taro
- Sugar
- Dairy
- Diversified Crop
- Macadamia Nuts
- Coffee

Service Area

- Service Area



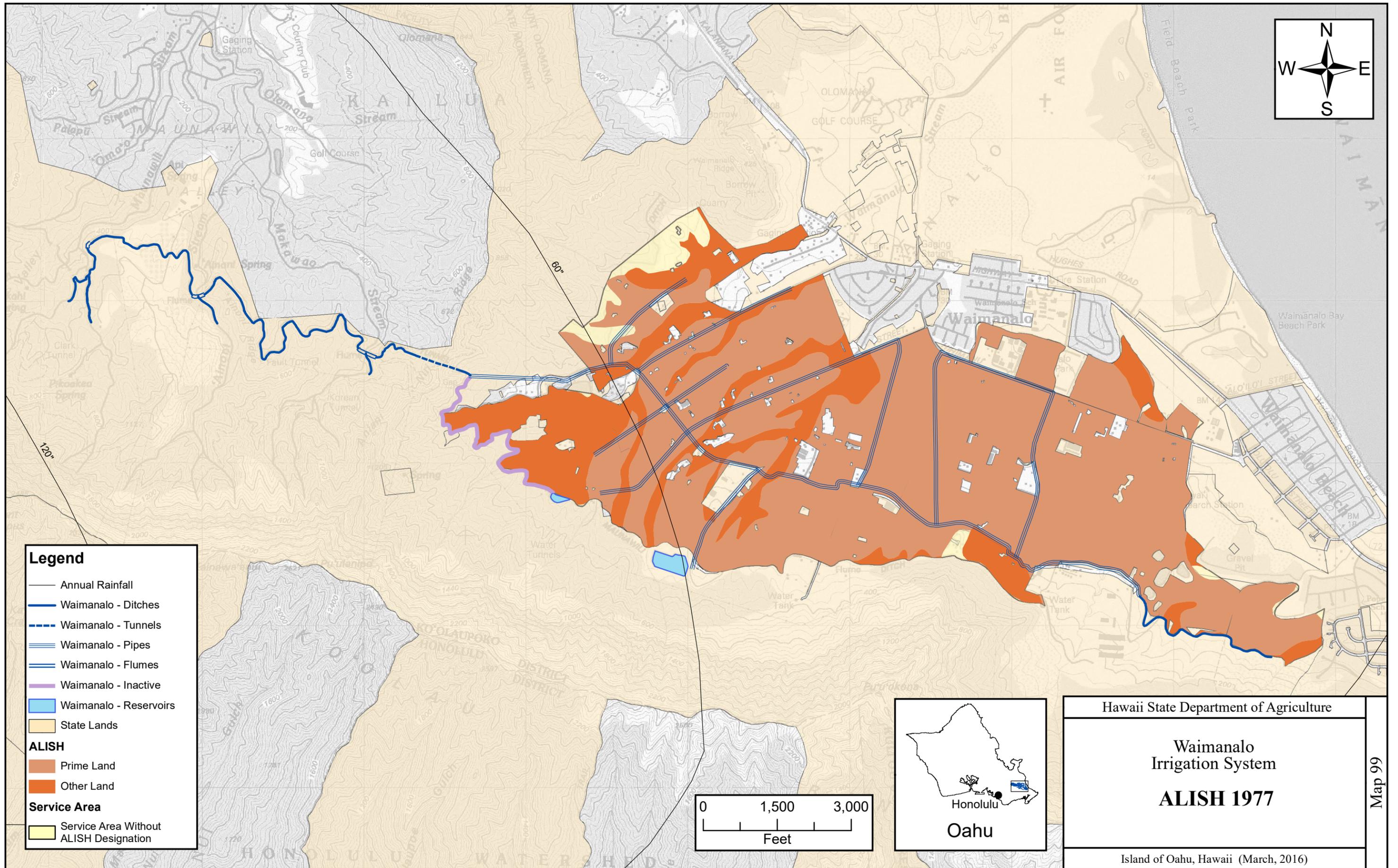
Hawaii State Department of Agriculture

Waimanalo
Irrigation System

**Statewide Agricultural
Land Use Baseline 2015**

Island of Oahu, Hawaii (March, 2016)

UTM Zone 4N, NAD83



Legend

- Annual Rainfall
- Waimanalo - Ditches
- - - Waimanalo - Tunnels
- ||| Waimanalo - Pipes
- ||| Waimanalo - Flumes
- Waimanalo - Inactive
- Waimanalo - Reservoirs
- State Lands
- ALISH**
- Prime Land
- Other Land
- Service Area**
- Service Area Without ALISH Designation

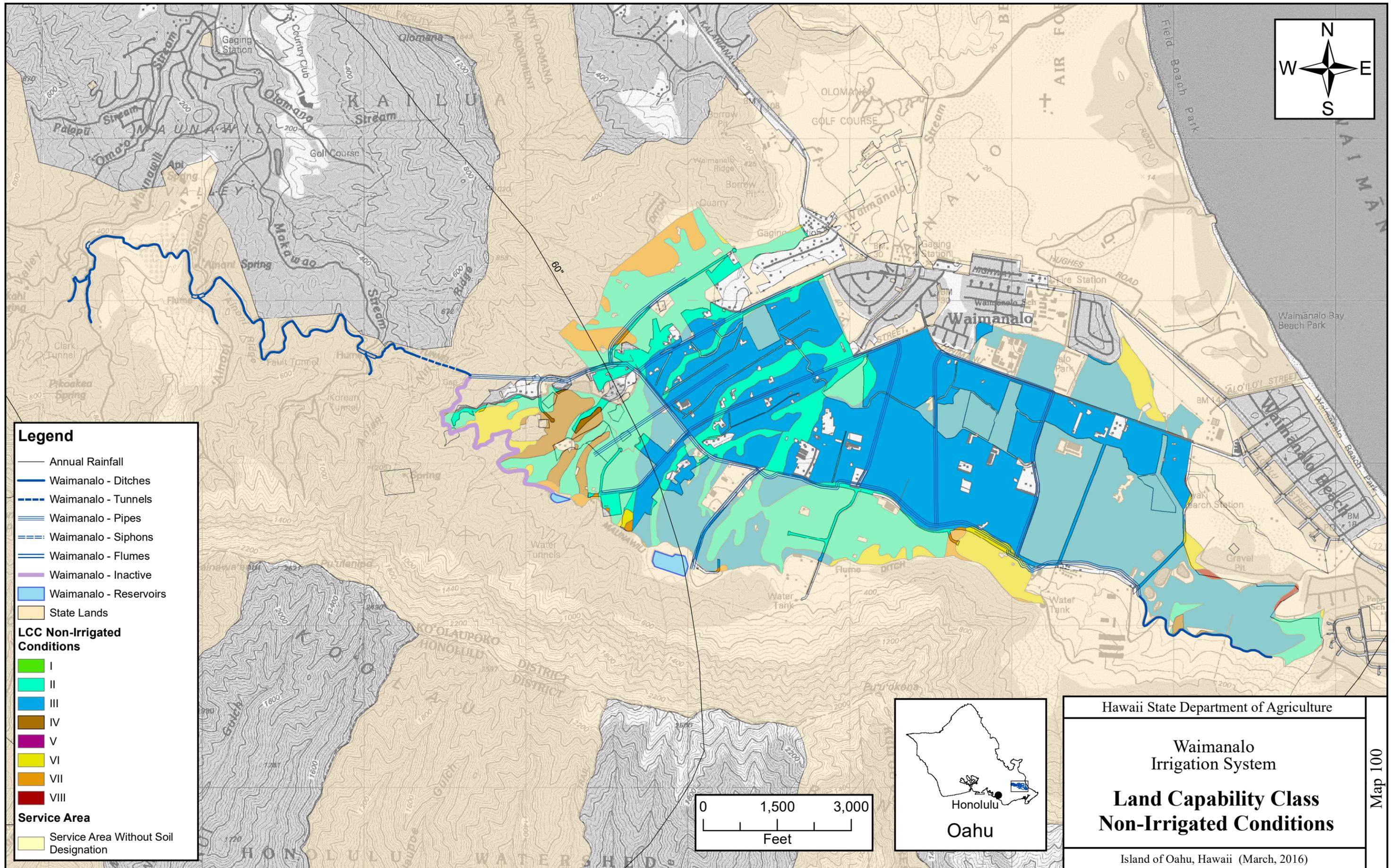
Hawaii State Department of Agriculture

**Waimanalo
Irrigation System**

ALISH 1977

Island of Oahu, Hawaii (March, 2016)

Map 99



Legend

- Annual Rainfall
- Waimanalo - Ditches
- - - Waimanalo - Tunnels
- ==== Waimanalo - Pipes
- ==== Waimanalo - Siphons
- ==== Waimanalo - Flumes
- Waimanalo - Inactive
- Waimanalo - Reservoirs
- State Lands

LCC Non-Irrigated Conditions

- I
- II
- III
- IV
- V
- VI
- VII
- VIII

Service Area

- Service Area Without Soil Designation

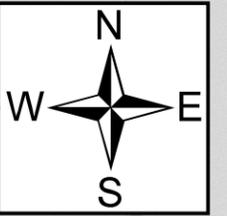
Hawaii State Department of Agriculture

Waimanalo
Irrigation System

**Land Capability Class
Non-Irrigated Conditions**

Island of Oahu, Hawaii (March, 2016)

Map 100



Legend

- Annual Rainfall
- Waimanalo - Ditches
- Waimanalo - Tunnels
- Waimanalo - Pipes
- Waimanalo - Siphons
- Waimanalo - Flumes
- Waimanalo - Inactive
- Waimanalo - Reservoirs
- State Lands

LCC With Irrigation

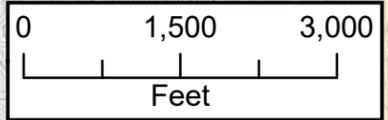
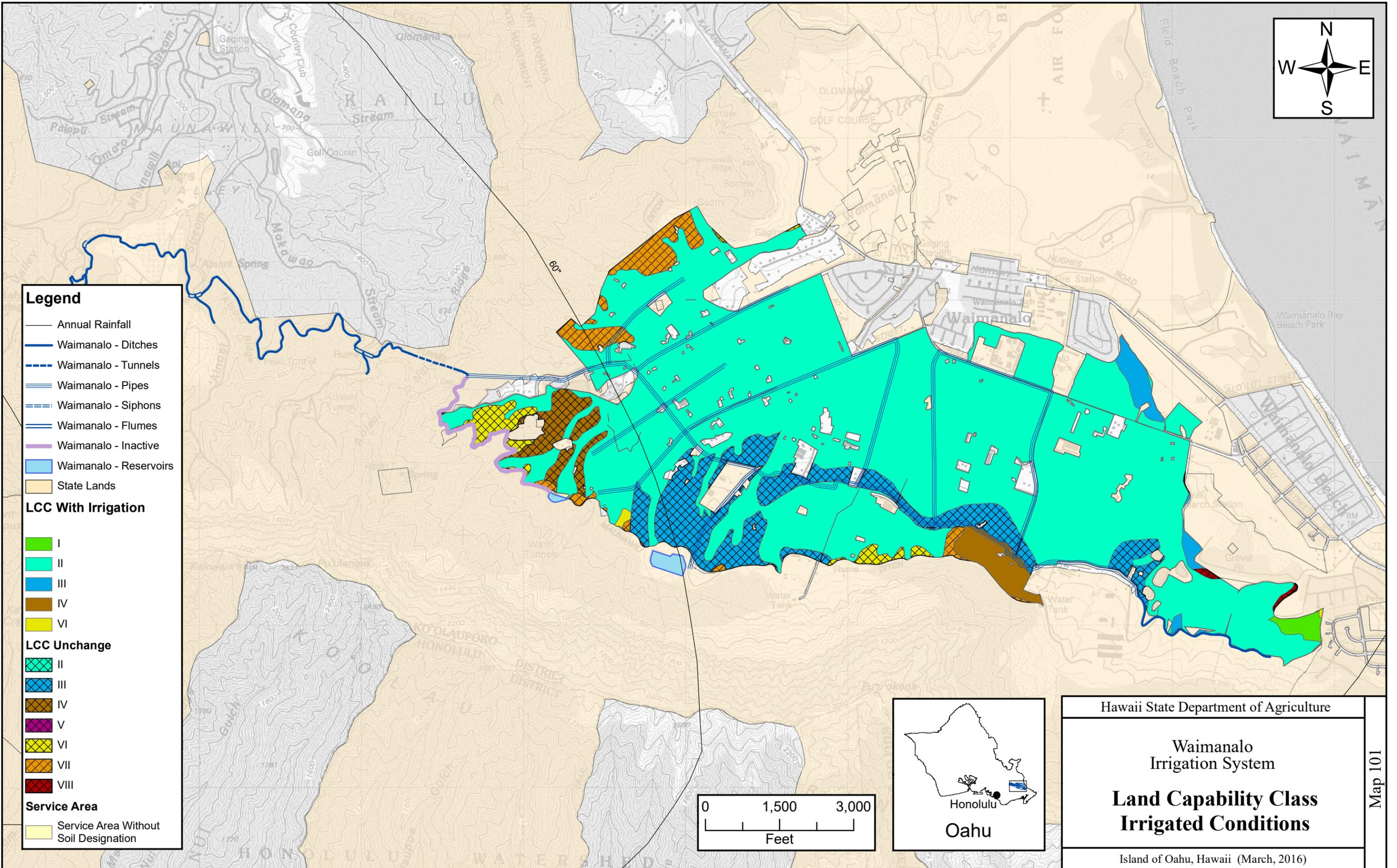
- I
- II
- III
- IV
- VI

LCC Unchange

- II
- III
- IV
- V
- VI
- VII
- VIII

Service Area

- Service Area Without Soil Designation

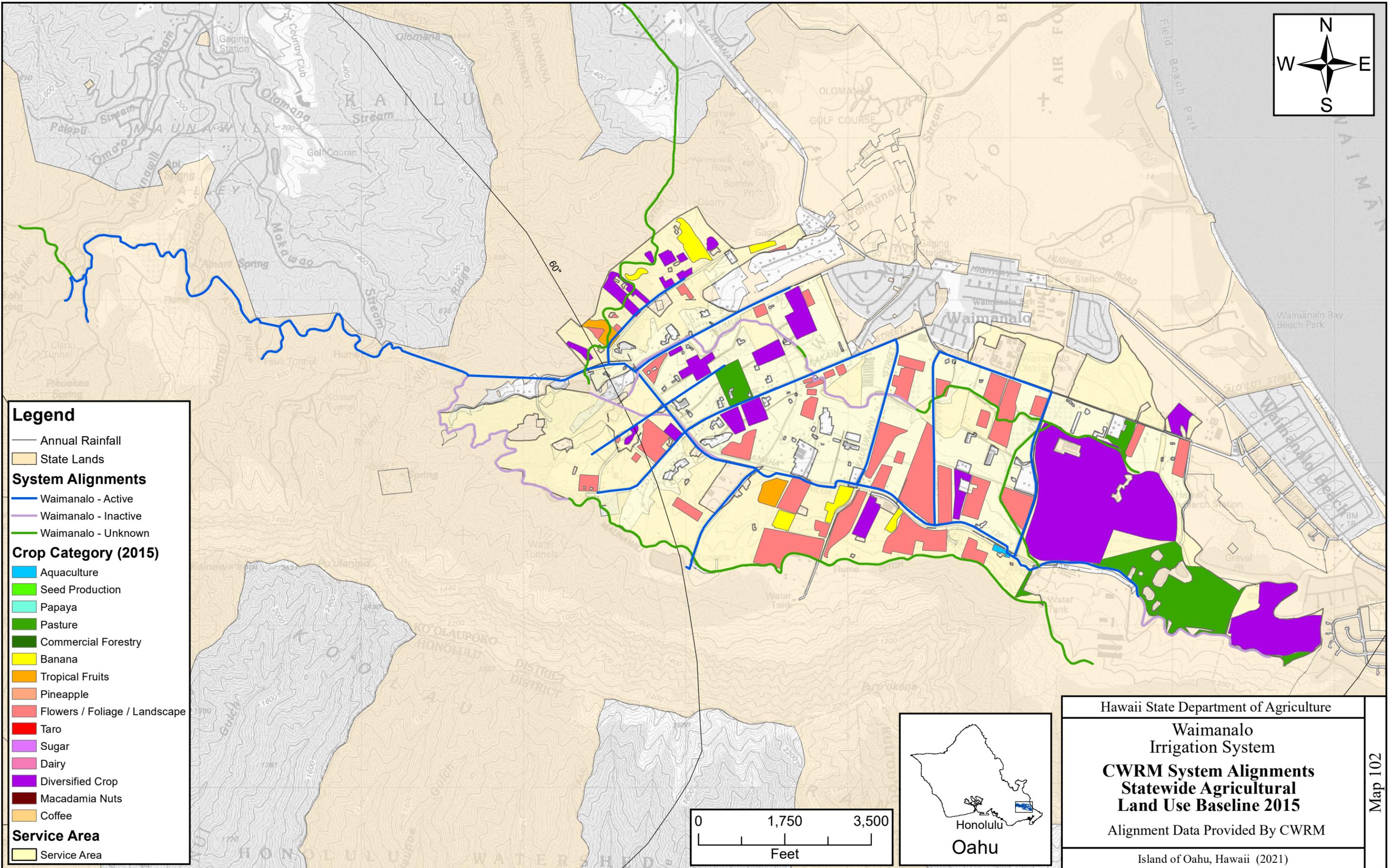
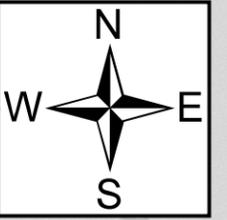


Hawaii State Department of Agriculture

Waimanalo
Irrigation System

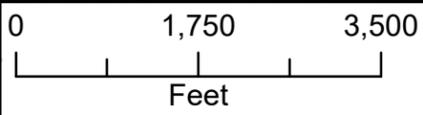
**Land Capability Class
Irrigated Conditions**

Island of Oahu, Hawaii (March, 2016)



Legend

- Annual Rainfall
- State Lands
- System Alignments**
- Waimanalo - Active
- Waimanalo - Inactive
- Waimanalo - Unknown
- Crop Category (2015)**
- Aquaculture
- Seed Production
- Papaya
- Pasture
- Commercial Forestry
- Banana
- Tropical Fruits
- Pineapple
- Flowers / Foliage / Landscape
- Taro
- Sugar
- Dairy
- Diversified Crop
- Macadamia Nuts
- Coffee
- Service Area**
- Service Area



Hawaii State Department of Agriculture

Waimanalo
Irrigation System

**CWRM System Alignments
Statewide Agricultural
Land Use Baseline 2015**

Alignment Data Provided By CWRM

Island of Oahu, Hawaii (2021)

UTM Zone 4N, NAD83