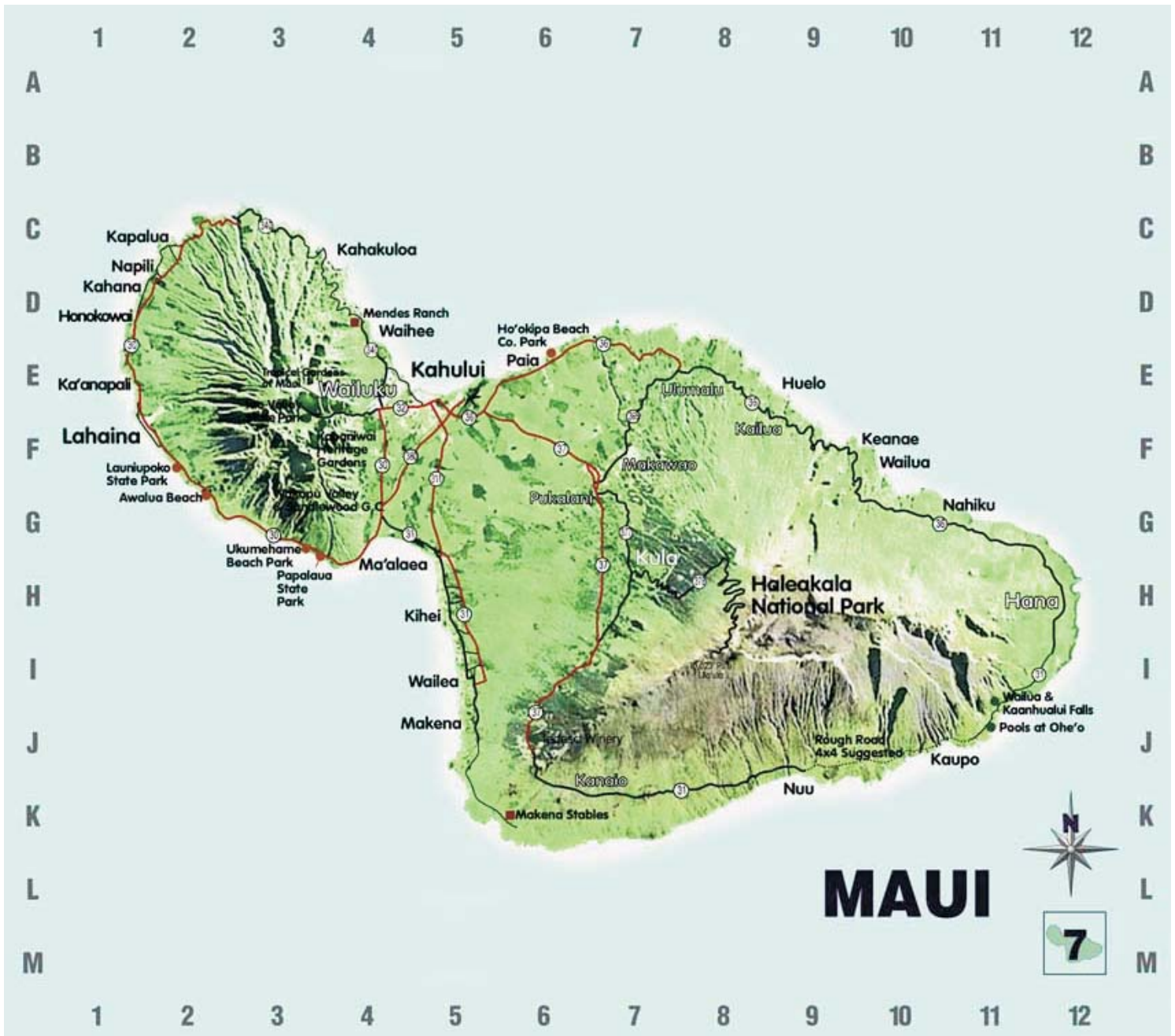


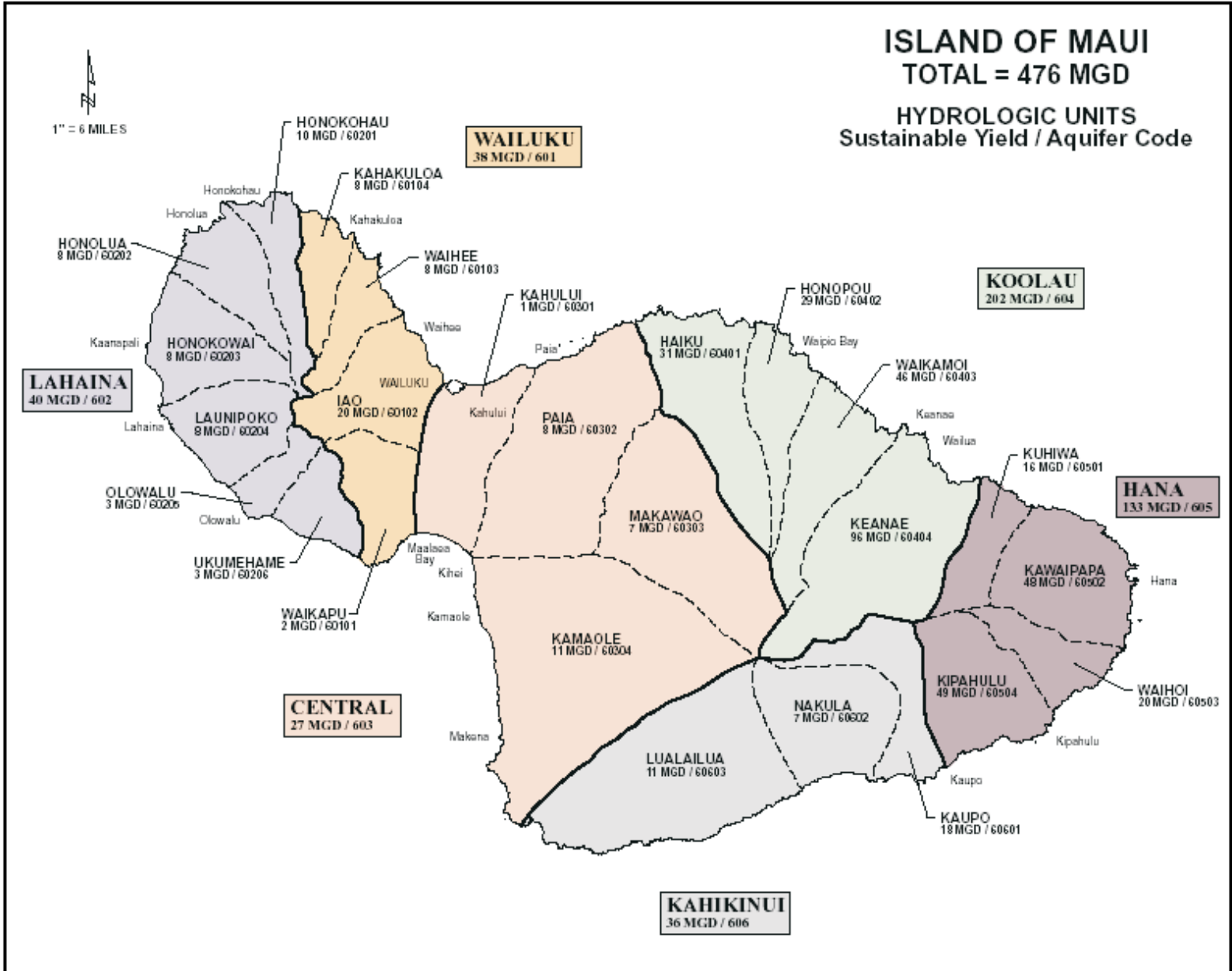
Appendix: Maui County – Frommer’s Hawaii Beach Activity Guide

<http://www.beachactivityguide.com/Maui/Map/>

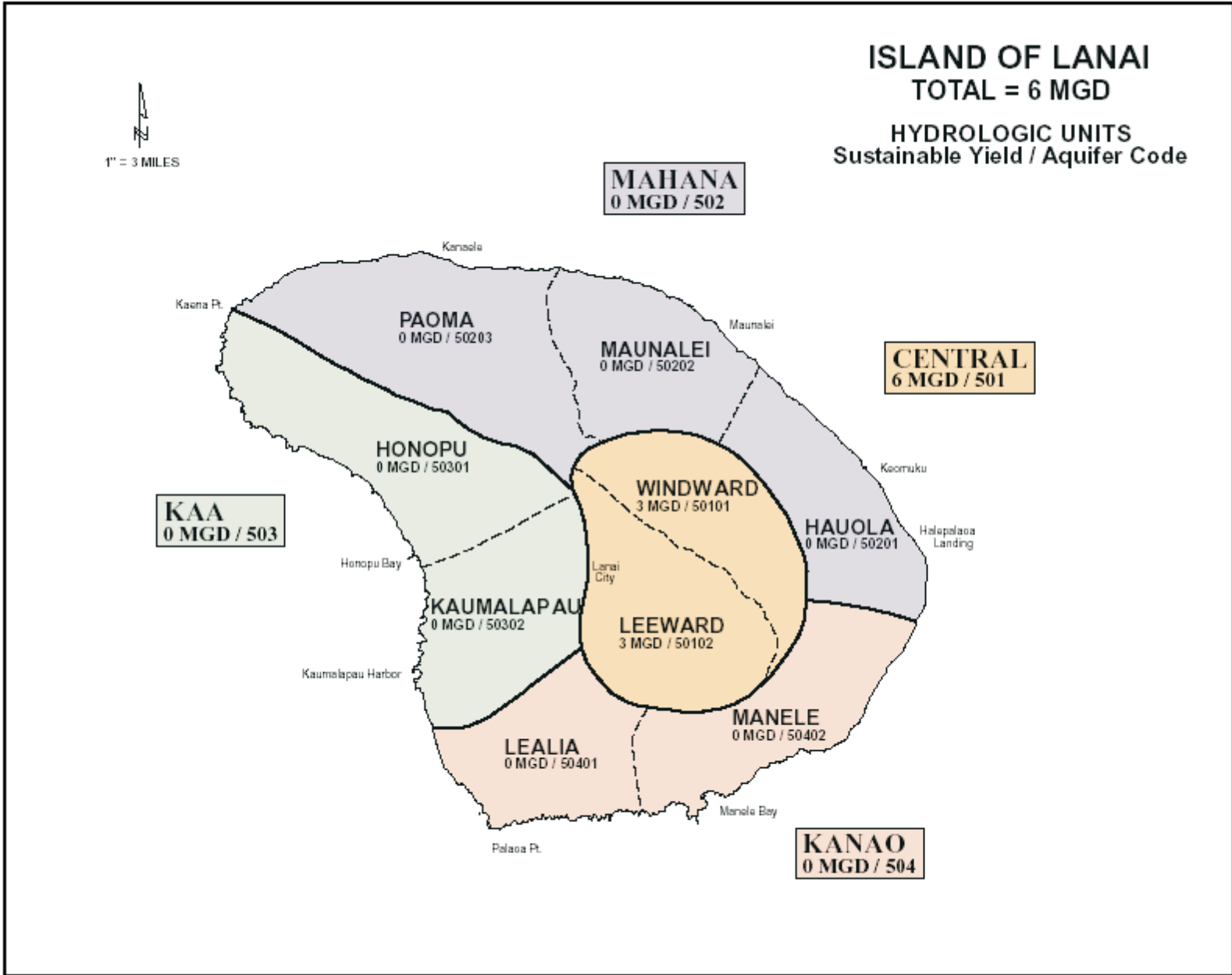
The map below shows some of the more popular places to visit on Maui, in addition to covering several of the community planning areas and major towns.



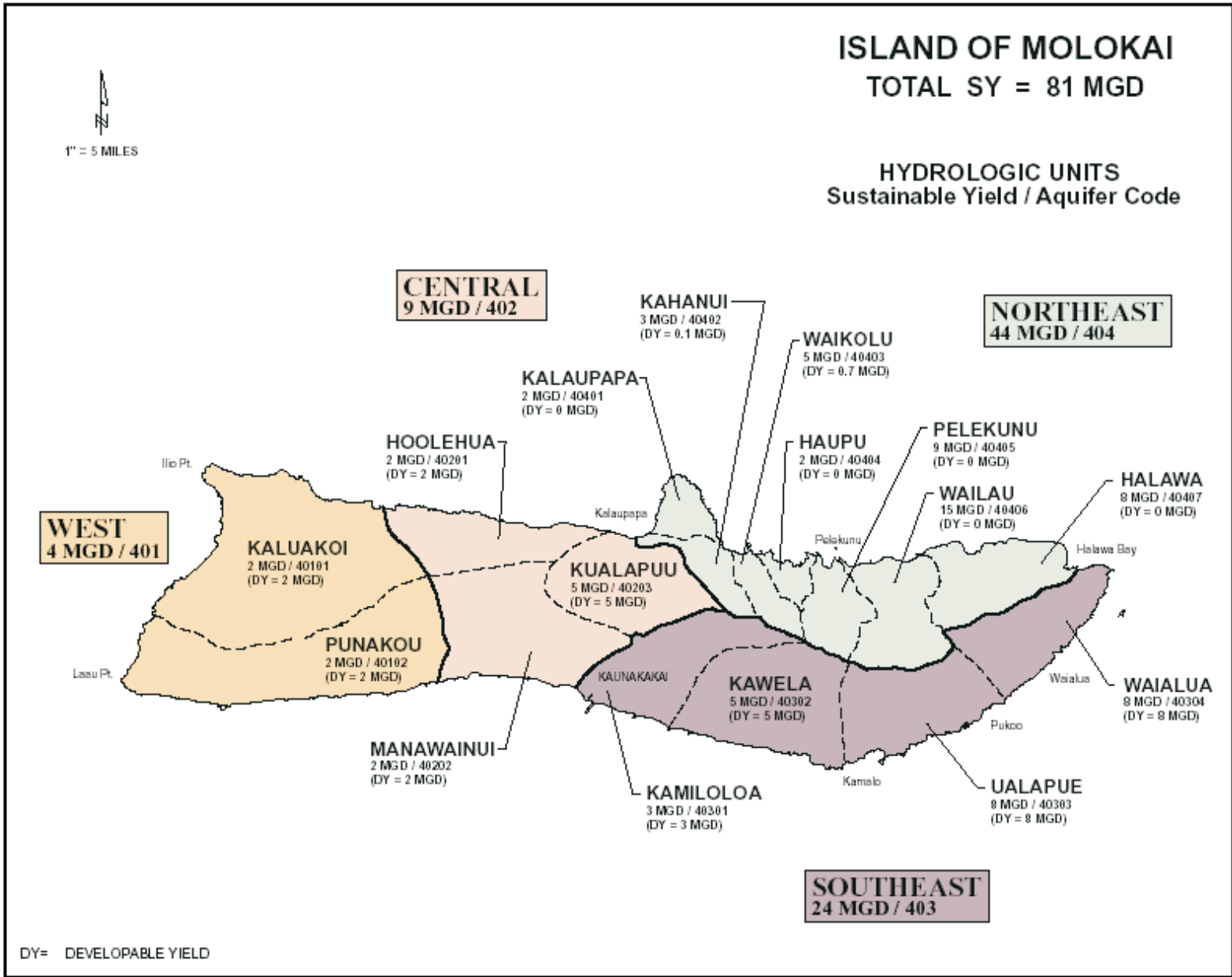
The map below outlines the hydrologic units or aquifers for Maui and displays their sustainable yield and aquifer code.



The map below outlines the hydrologic units or aquifers for Lanai and displays their sustainable yield and aquifer code.



The map outlines aquifers on Molokai and displays their sustainable yield and aquifer code. The 81MGD sustainable yield is for planning purposes.

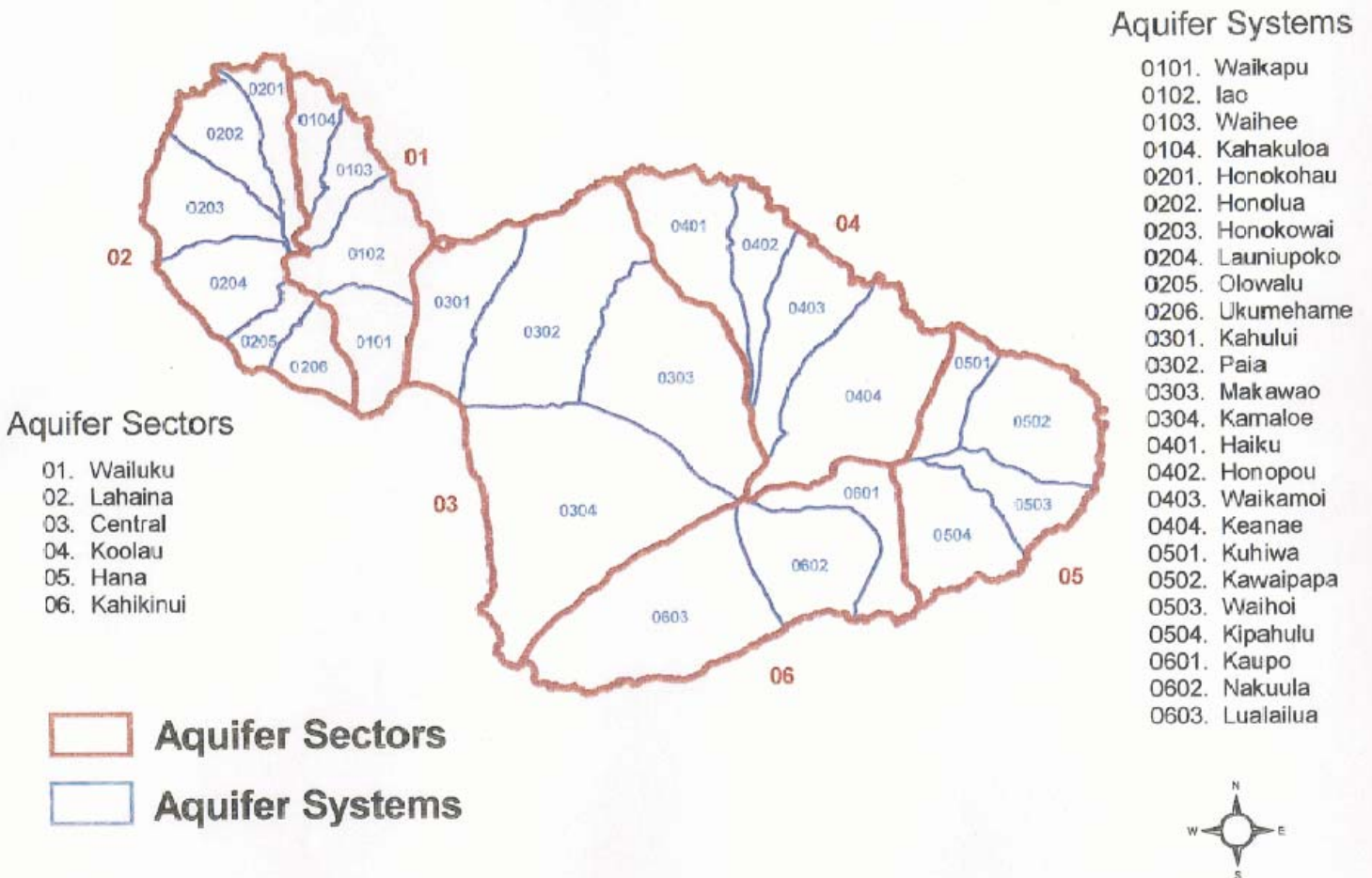


Appendix: Maui County – Department of Health – Clean Water Branch

<http://mano.icisd.hawaii.gov/doh/eh/cwb/2000-305b/pdf-files/ch400084.pdf>

The map below outlines the aquifer sectors and aquifer systems for the island of Maui.

Maui Aquifer Sectors and Aquifer Systems

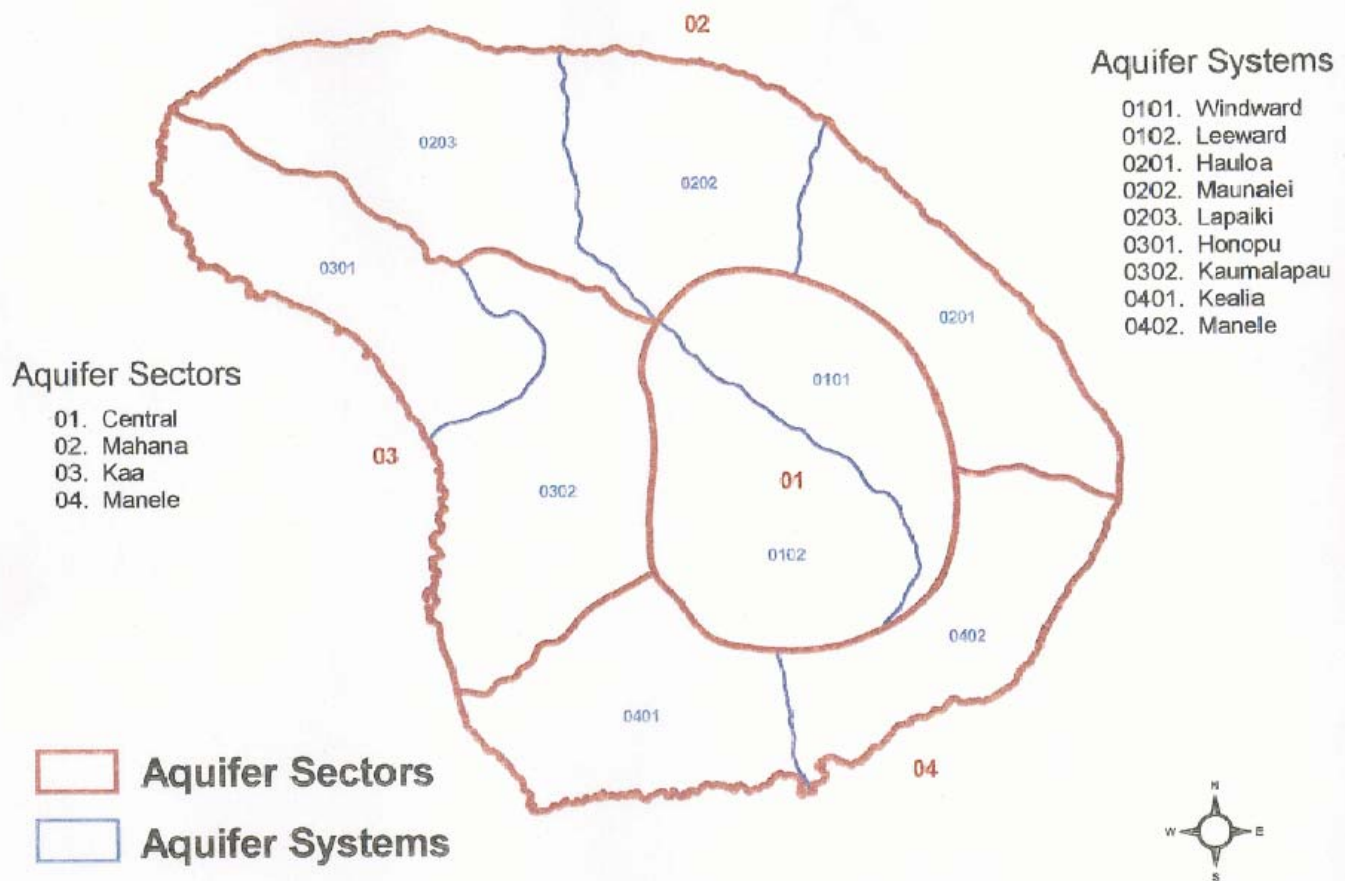


Appendix: Maui County – Department of Health – Clean Water Branch

<http://mano.icisd.hawaii.gov/doh/eh/cwb/2000-305b/pdf-files/ch400084.pdf>

The map below outlines the aquifer sectors and aquifer systems for the island of Lanai.

Lanai Aquifer Sectors and Aquifer Systems

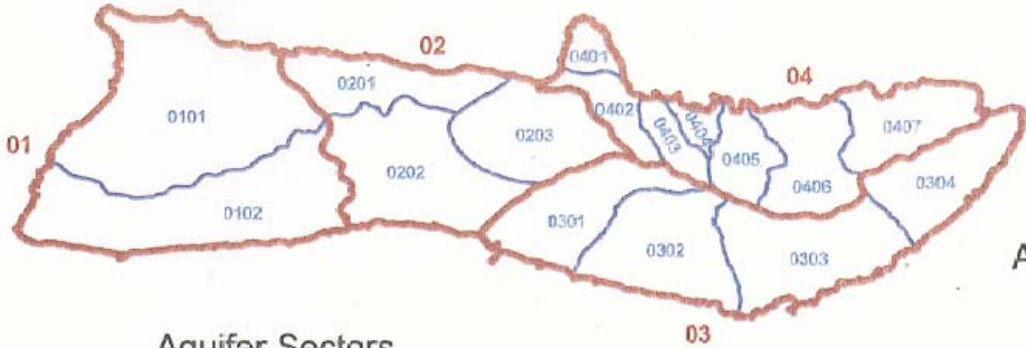


Appendix: Maui County – Department of Health – Clean Water Branch

<http://mano.icisd.hawaii.gov/doh/eh/cwb/2000-305b/pdf-files/ch400084.pdf>

The map below outlines the aquifer sectors and aquifer systems for the island of Molokai.

Molokai Aquifer Sectors and Aquifer Systems



Aquifer Sectors

- 01. West
- 02. Central
- 03. Southeast
- 04. Northeast

Aquifer Systems

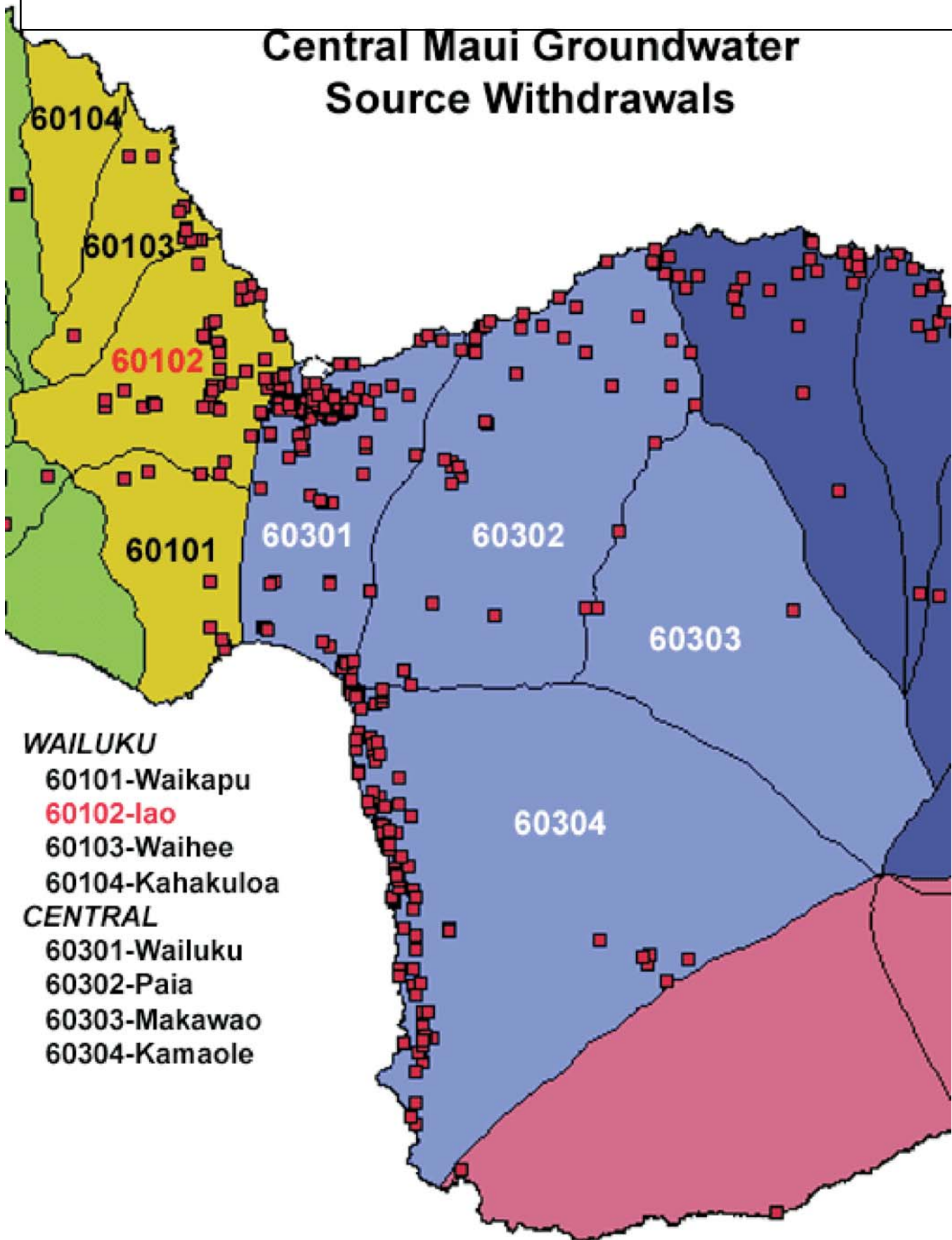
- 0101. Kaluakoi
- 0102. Punakou
- 0201. Hoolehua
- 0202. Manawainui
- 0203. Kualapuu
- 0301. Kamiloloa
- 0302. Kawela
- 0303. Ualapue
- 0304. Waiialua
- 0401. Kalaupapa
- 0402. Kahanui
- 0403. Waikolu
- 0404. Haupu
- 0405. Pelekunu
- 0406. Wailau
- 0407. Halawa

- Aquifer Sectors
- Aquifer Systems



http://www.maui-tomorrow.org/water_maps1.html

The map below shows the groundwater sources for withdrawals made in Central Maui.

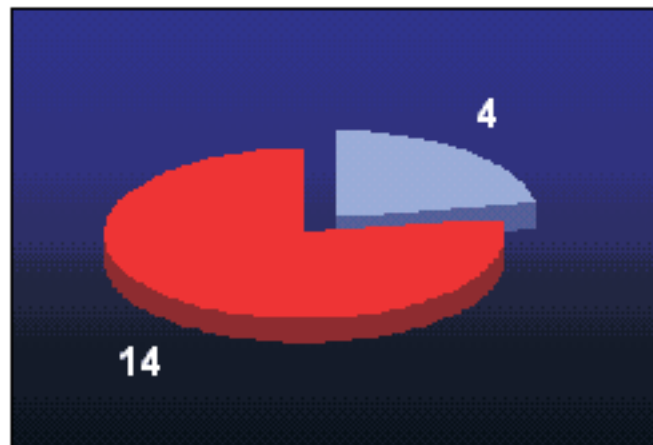


http://www.maui-tomorrow.org/water_maps1.html

The graphs below illustrate groundwater uses for Central Maui.

Central Maui Groundwater Uses: Waikapu, Iao, Waihe'e, Kahului, Paia, Makawao, Kamaole Aquifers

18 MUNICIPAL SITES



4 of 18 sources list amount of water withdrawn
9.2 MGD for sites that list withdrawal amount

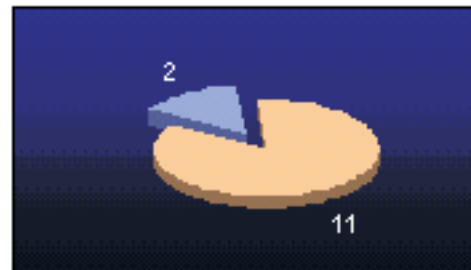
22.83 MGD is total use for Central DWS sources, based on *DWS Monthly Source Report*
(Note: The State Database has not been updated to list these withdrawals)

172 IRRIGATION SITES



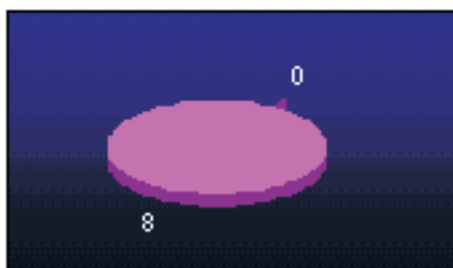
18 sources list amount of water withdrawn
101 MGD for sites that list withdrawal amount

13 INDUSTRIAL SITES



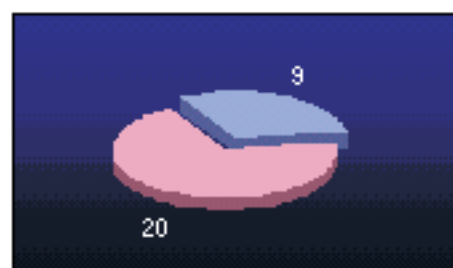
2 sources list amount of water withdrawn
5.9 MGD for sites that list withdrawal amount

8 DOMESTIC SITES



0 sources list amount of water withdrawn
0.0 MGD for sites that list withdrawal amount

29 UNCLASSIFIED SITES



9 sources listing amount of water withdrawn
79.9 MGD for sites that list withdrawal amount

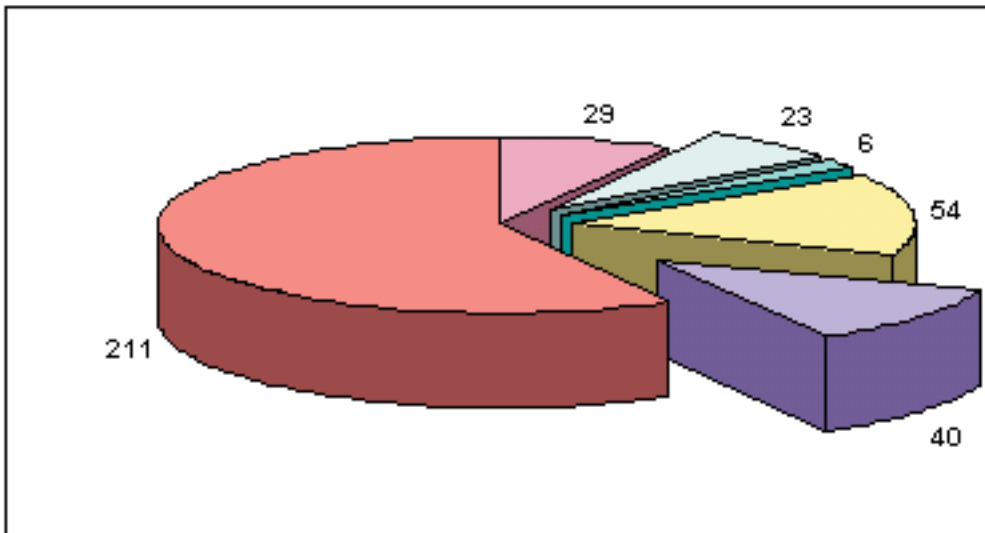
Source: Hawaii Commission on Water Resource Management,
with revisions based on Maui DWS sources and other resource documents.

Appendix: Maui County – Hawaii Commission On Water Resource Management

http://www.maui-tomorrow.org/water_maps1.html

Central Maui Groundwater Uses: Waikapu, Iao, Waihe'e, Kahului, Paia, Makawao, Kamaole Aquifers

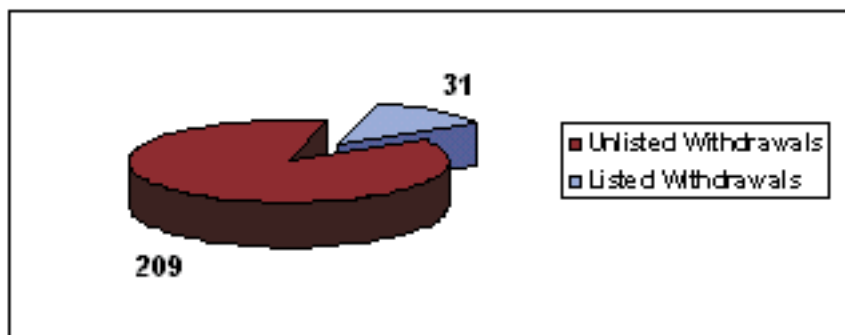
363 TOTAL PERMITTED WATER SITES (Wells, Tunnels, Shafts)



- | | |
|---|--|
| <p>123 listed as indicating no pumping</p> <ul style="list-style-type: none"> 23 listed as "Observation" 6 listed as "Sealed" 54 listed as "Unused" 40 Listed as "Other" | <p>240 sources likely to be pumping</p> <ul style="list-style-type: none"> 29 listed without use, but likely pumping "(?Use)" 211 listed as pumping |
|---|--|

NOTE: Hamakuapoko wells listed as "Unused" or without use in State Database, actually pumped an average of 5 MG per month for upcountry domestic use Nov 1, 2000 thru Oct. 30, 2001.

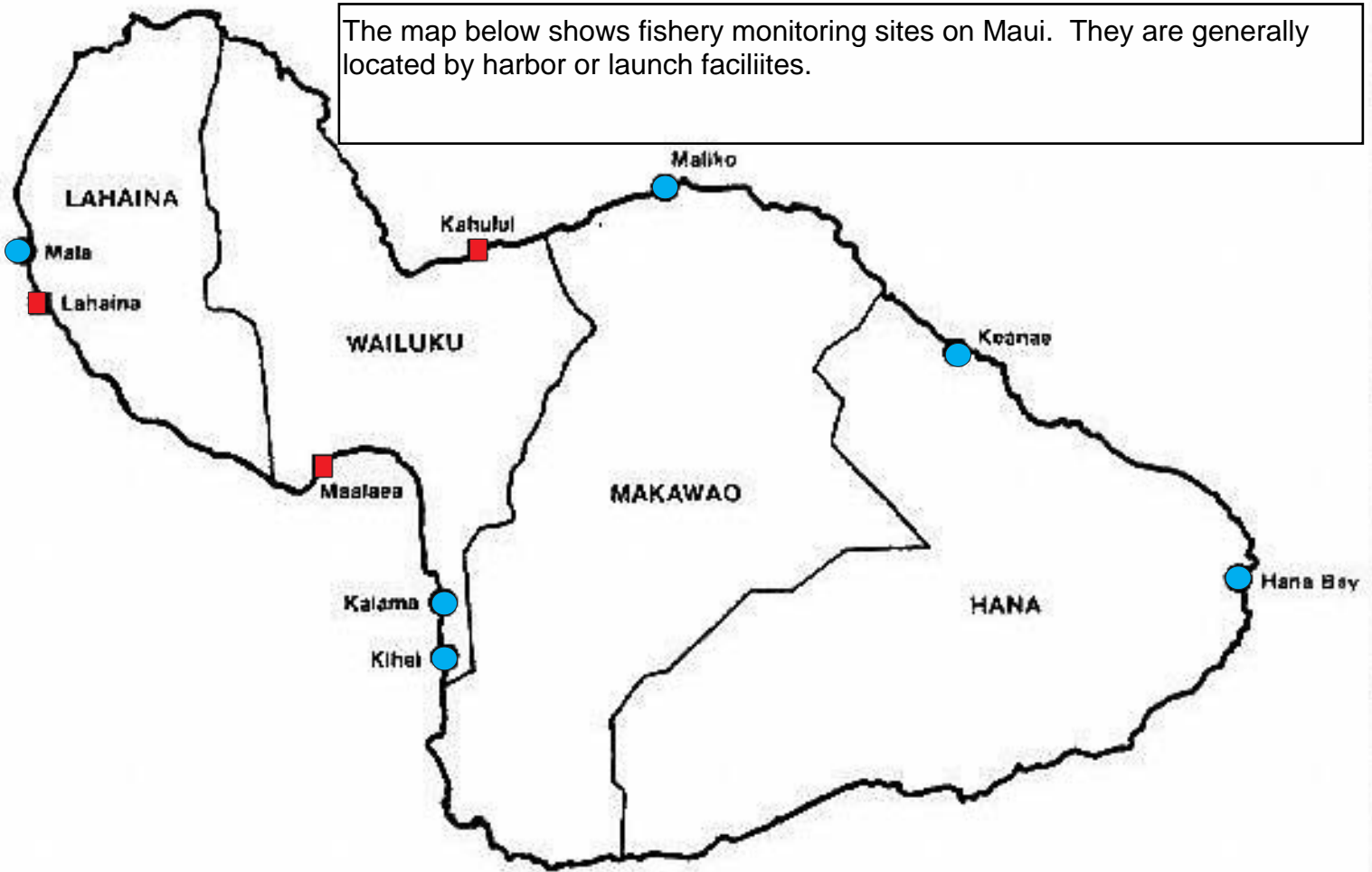
Of 240 Central Maui sites likely pumping, the State Database lists amount of water withdrawn for only 31 sources totaling 190 MGD; 209 are unlisted.



Appendix: County of Kauai – Fishery Monitoring Economics Program

<http://www.nmfs.hawaii.edu/fmpi/fmep/reef/maui.htm>

The map below shows fishery monitoring sites on Maui. They are generally located by harbor or launch facilities.



Legend

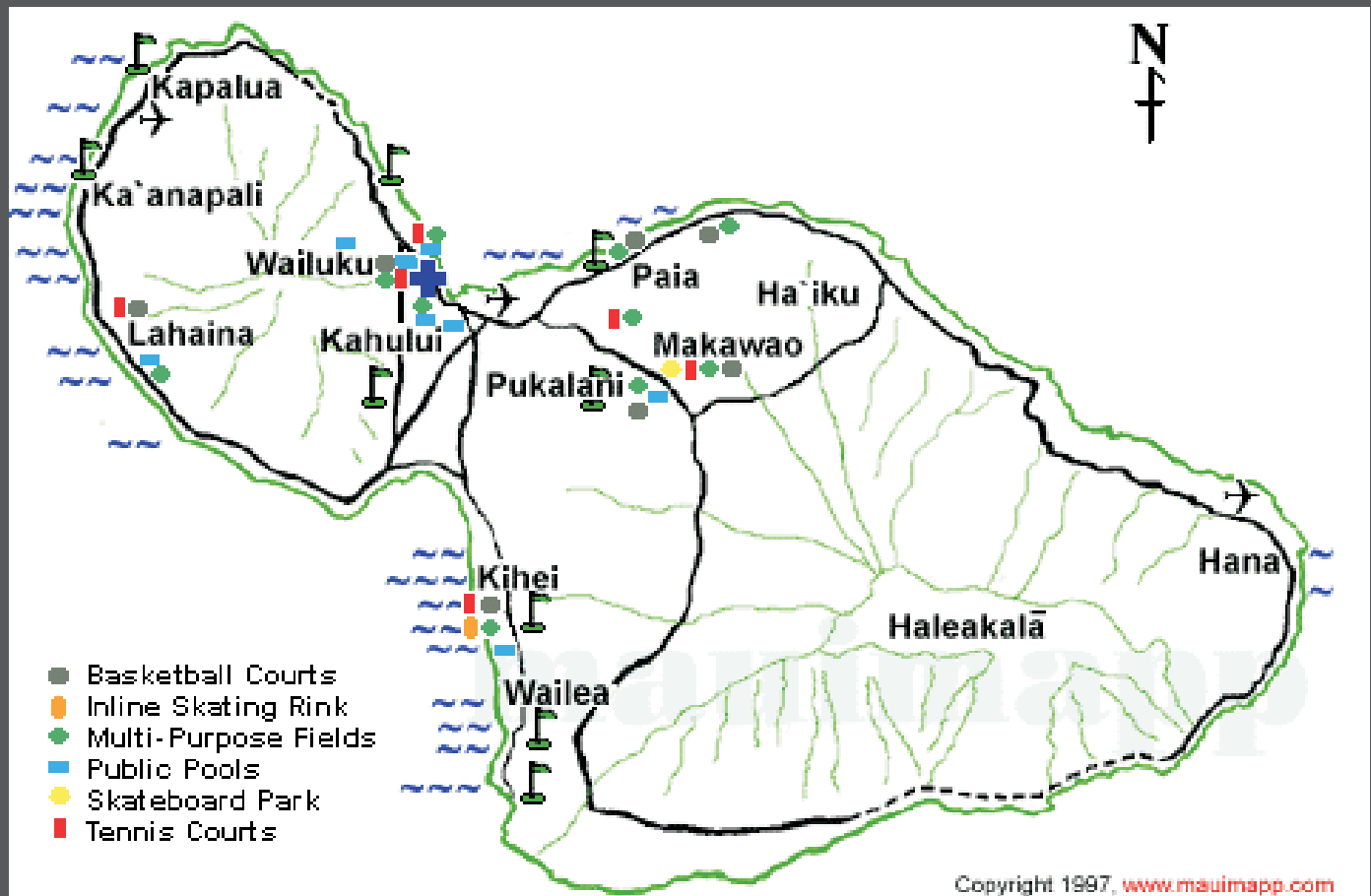
- Small Boat Harbor
- Launch Ramp Only

MAUI

Small boat Harbor	Launch Ramp Only
Lahina (s)	Mala (s)
Maalaea (s)	Kalama (c)
Kahului (s)	Kihei (s)
	Hana Bay (s)
	Keanae (c)
	Maliko (s)

Ownership: c-county p-private s-state 1- primarily commercial

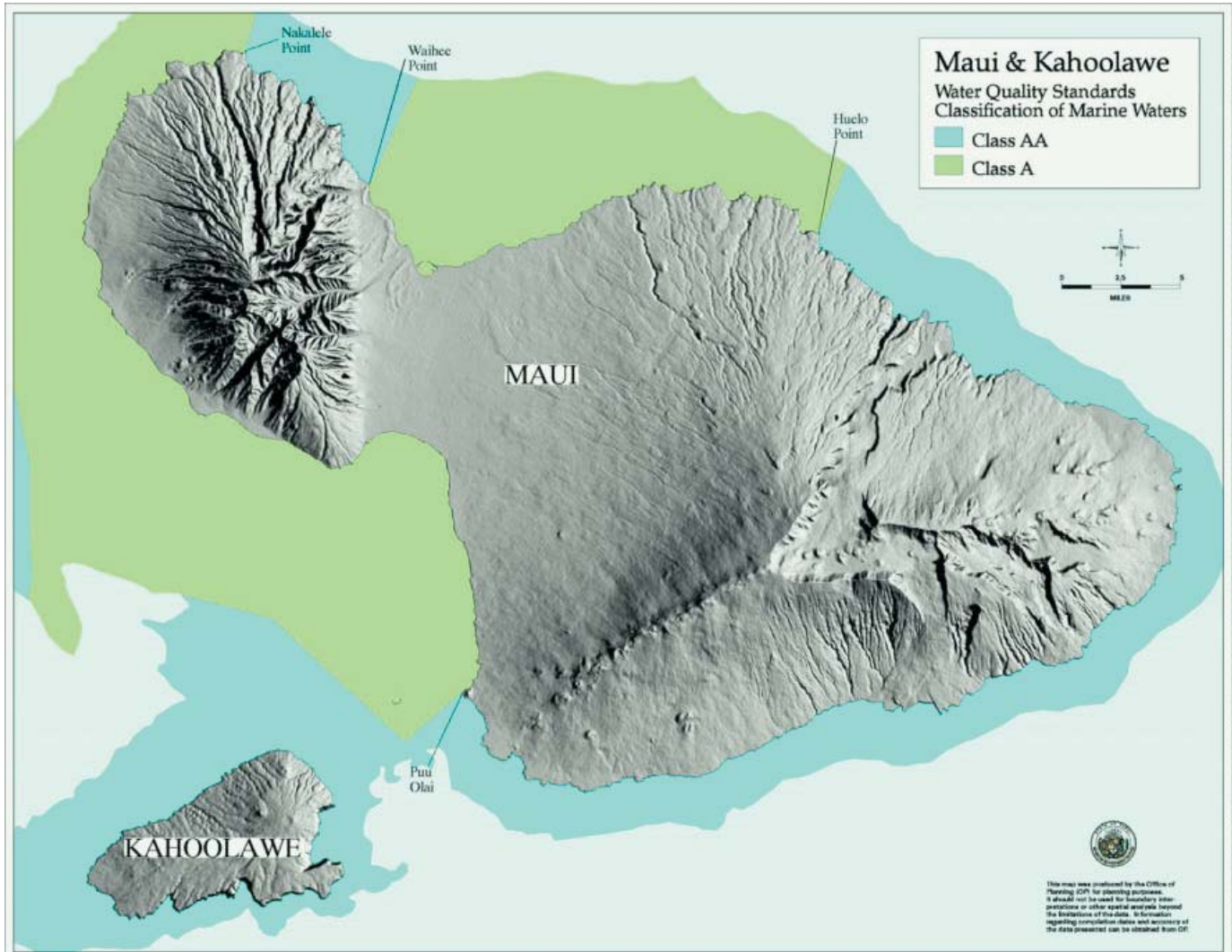
Below is a map of some of Maui County's Recreational facilities.



Appendix: County of Maui - Environmental Planning Office

(<http://www.geocities.com/hawaiiipo/mawqc.jpg>)

The map below illustrates the Class A from Class AA Water Quality Standards around Maui.



AA

Remain in natural state
Minimum of pollution
Maintain wilderness character

Oceanographic research
Support aquatic life
Conserve coral reefs
Compatible recreation

No zones of mixing (with exceptions)

A

Support recreation

All uses compatible with recreation and support of aquatic wildlife

Entering discharge must receive best degree of treatment

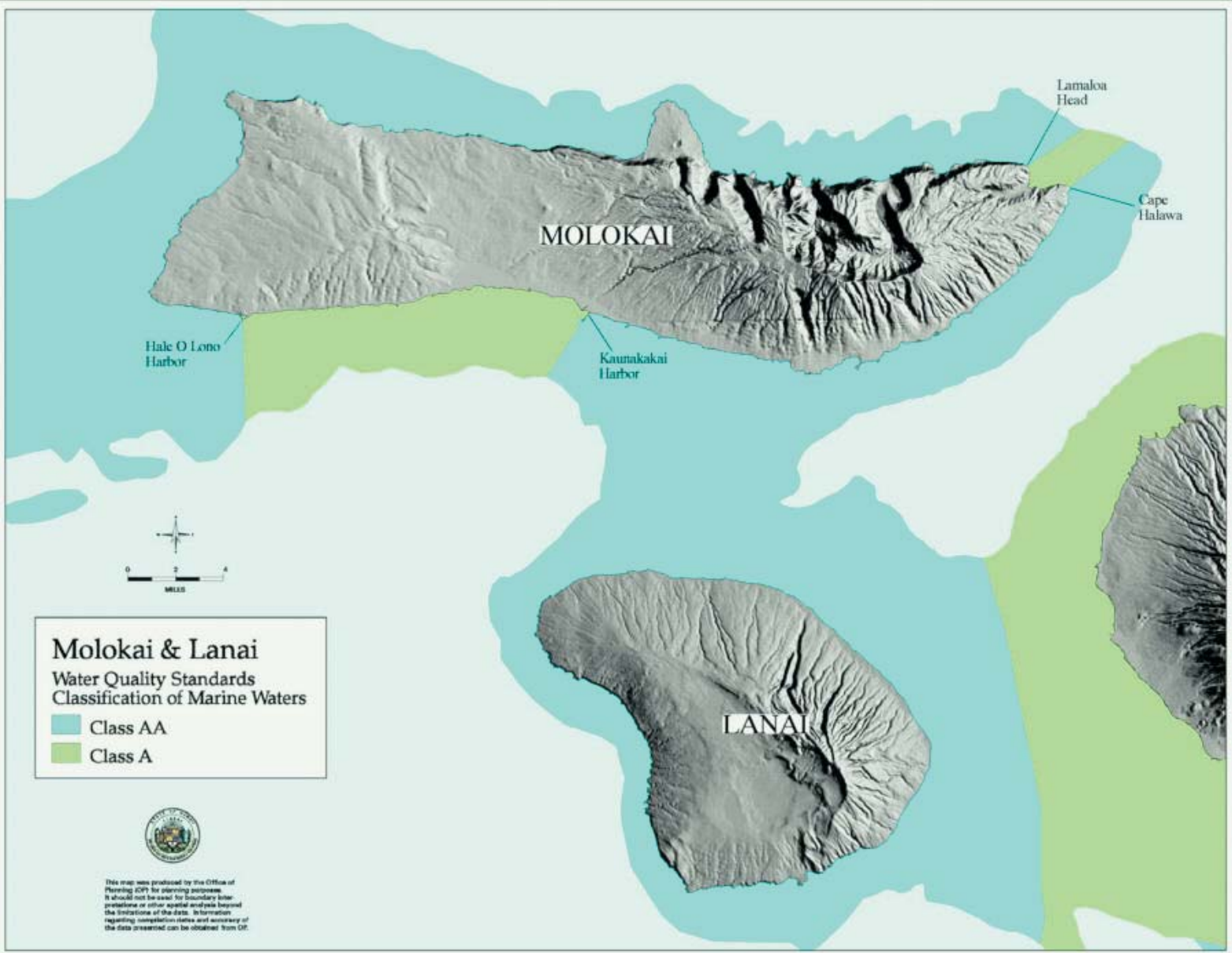
No new sewage discharges within embayments

No new industrial discharges within embayments (with exceptions)

Appendix: County of Maui - Environmental Planning Office

<http://www.geocities.com/hawaiiepo/molawqc.jpg>

The map below illustrates the Class A from Class AA Water Quality Standards around Molokai.

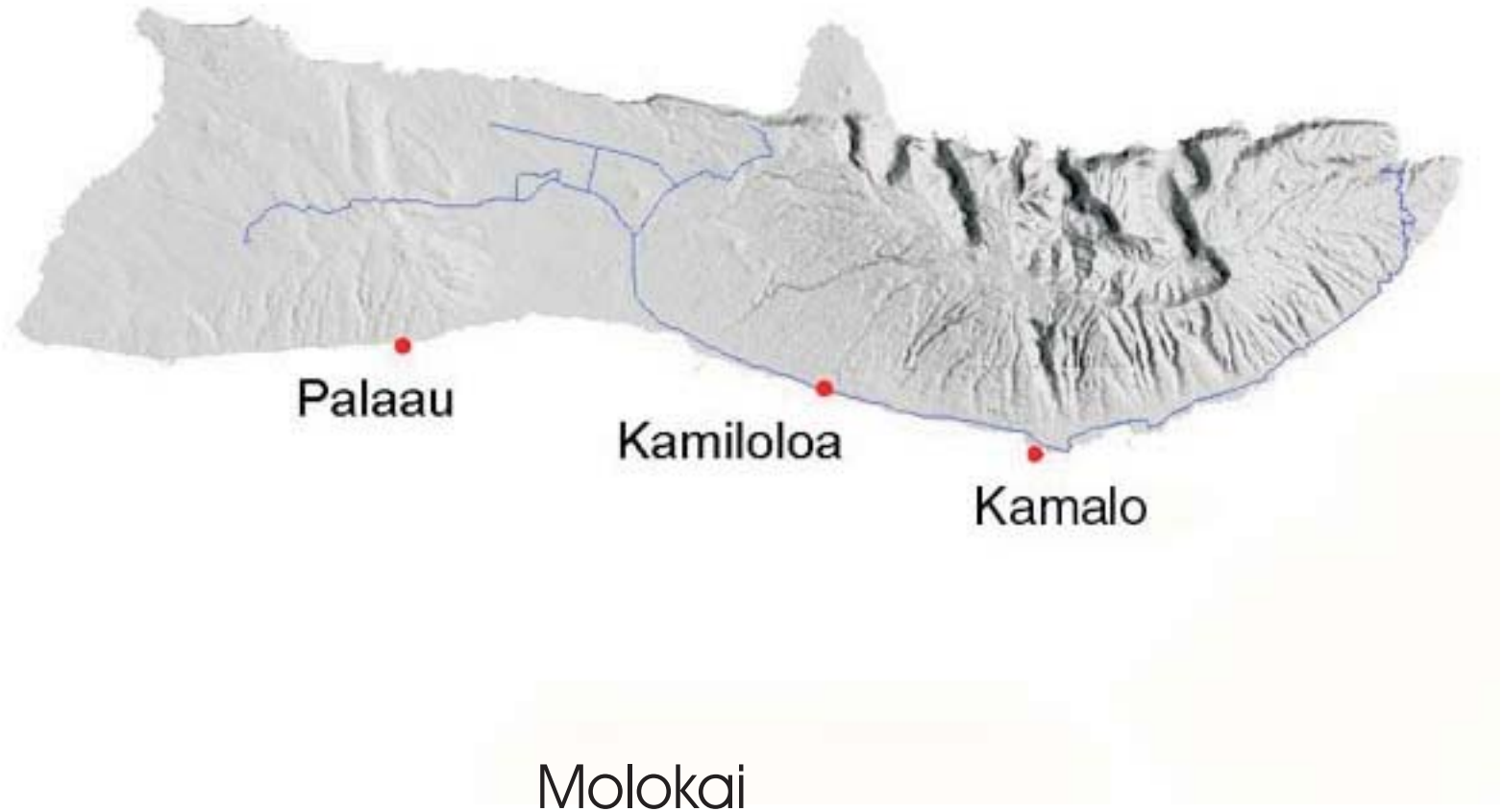


- AA
 - Remain in natural state
 - Minimum of pollution
 - Maintain wilderness character
 - Oceanographic research
 - Support aquatic life
 - Conserve coral reefs
 - Compatible recreation
 - No zones of mixing (with exceptions)
- A
 - Support recreation
 - All uses compatible with recreation and support of aquatic wildlife
 - Entering discharge must receive best degree of treatment
 - No new sewage discharges within embayments
 - No new industrial discharges within embayments (with exceptions)

Appendix: County of Maui - Coral Reef Assessment and Monitoring Program

http://cramp.wcc.hawaii.edu/Study_Sites/Molokai/

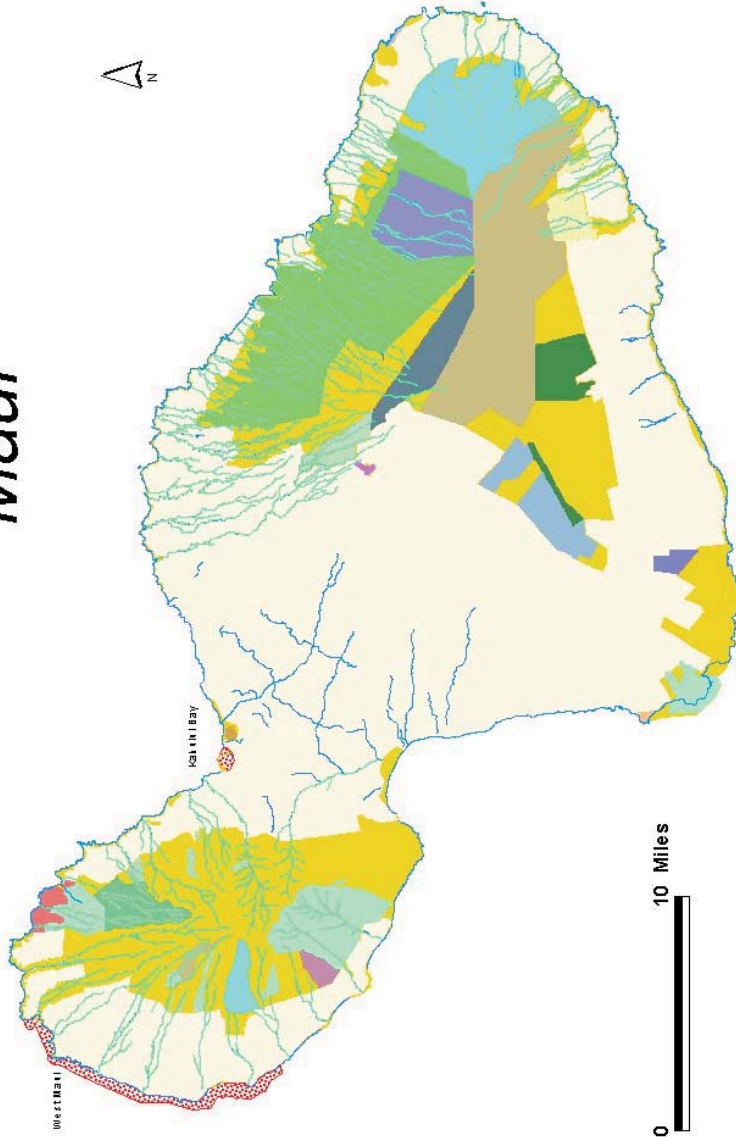
Shown below are the three coral reef assessment and monitoring sites that are part of CRAMP on Molokai.



Maui Legend

- Perennial streams
- Intermittent streams
- Reserves & parks
- ?
- AHIHI-KINAU NATURAL AREA RESERVE
- HALEAKALA NATIONAL PARK
- HALEKII-PIHANA HEIAUS STATE MONUMENT
- HANA FOREST RESERVE
- HANAWI NATURAL AREA RESERVE
- HONOLUA-MOKULEIA MARINE LIFE CONSERVATION DISTRICT
- IAO VALLEY STATE MONUMENT
- KAHAKULOA GAME MANAGEMENT AREA
- KAHIKINUI FOREST RESERVE
- KANAHA POND WILDLIFE SANCTUARY
- KANAIO NATURAL AREA RESERVE
- KAUMAHINA STATE WAYSIDE
- KIPAHULU FOREST RESERVE
- KOOLAU FOREST RESERVE
- KULA FOREST RESERVE
- LIHAU NATURAL AREA RESERVE
- MAKAWAO FOREST RESERVE
- MAKENA STATE PARK
- PAUWALU POINT WILDLIFE SANCTUARY
- POLIPOLI SPRING STATE RECREATION AREA
- PUAA KAA STATE WAYSIDE
- WAIANAPANAPA STATE PARK
- WAIHOU SPRING FOREST RESERVE
- WAIKAMOI PRESERVE
- WAILUA VALLEY STATE WAYSIDE
- WEST MAUI FOREST RESERVE
- WEST MAUI NATURAL AREA RESERVE (HONOKOWAI SEC)
- WEST MAUI NATURAL AREA RESERVE (KAHAKULOA SEC)
- WEST MAUI NATURAL AREA RESERVE (PANAHEWA SEC)
- Conservation land use district
- Water Quality Limited Segments

Maui



The map above illustrates reserves and sanctuaries around Maui.

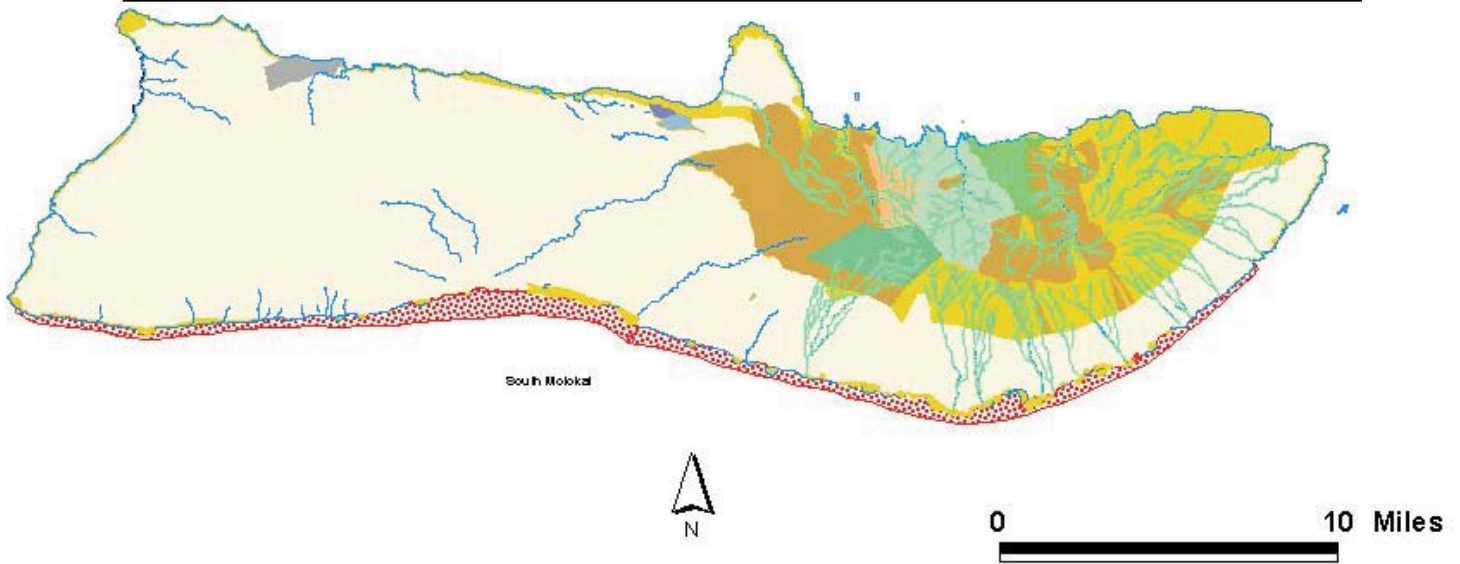
Appendix: County of Maui - Environmental Planning Office

(<http://www.geocities.com/hawaiiepo/maui.jpg>)



















<http://www.geocities.com/hawaiiipo/molokai.jpg>

Molokai

The map below illustrates reserves and sanctuaries around Molokai.



Molokai Legend

-  Perennial streams
-  Intermittent streams
- Reserves & Parks
-  BIRD SANCTUARY
-  HUELO BIRD SANCTUARY
-  KAMILOLOA PLANT SANCTUARY
-  KAMUKOU PRESERVE
-  KANAHA ROCK BIRD SANCTUARY
-  KUKUIPALAOA BIRD SANCTUARY
-  MOKAPU BIRD SANCTUARY
-  MOKOHOLA BIRD SANCTUARY
-  MOKUHOONIKI BIRD SANCTUARY
-  MOKUMANU BIRD SANCTUARY
-  MOLOKAI FOREST RESERVE
-  MOLOKAI FOREST RESERVE?
-  MOOMOMI DUNES PRESERVE
-  OKALA BIRD SANCTUARY
-  OLOKUI NATURAL AREA RESERVE
-  PALAAU STATE PARK
-  PAONUAKEA BIRD SANCTUARY
-  PELEKUNU PRESERVE
-  PUU ALII NATURAL AREA RESERVE
- Conservation land use district
-  Conservation land use district
-  Water Quality Limited Segments

Appendix: Maui County – Maui Invasive Species Committee

http://www.hear.org/misc/pdfs/nfwf2002fundingcycle_miscproposal_withimages.pdf

The map below outlines areas of concern regarding invasive species on Maui.

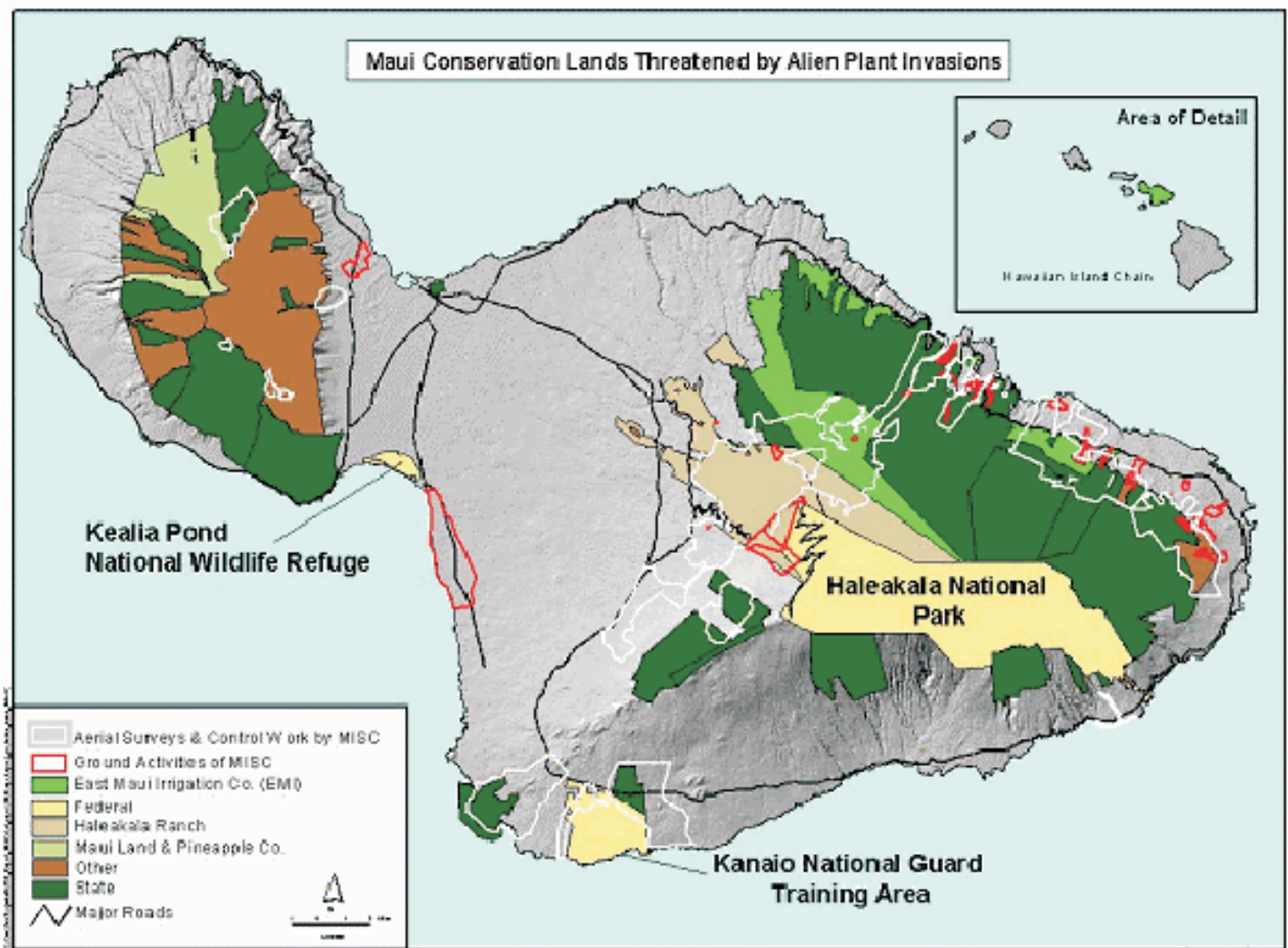
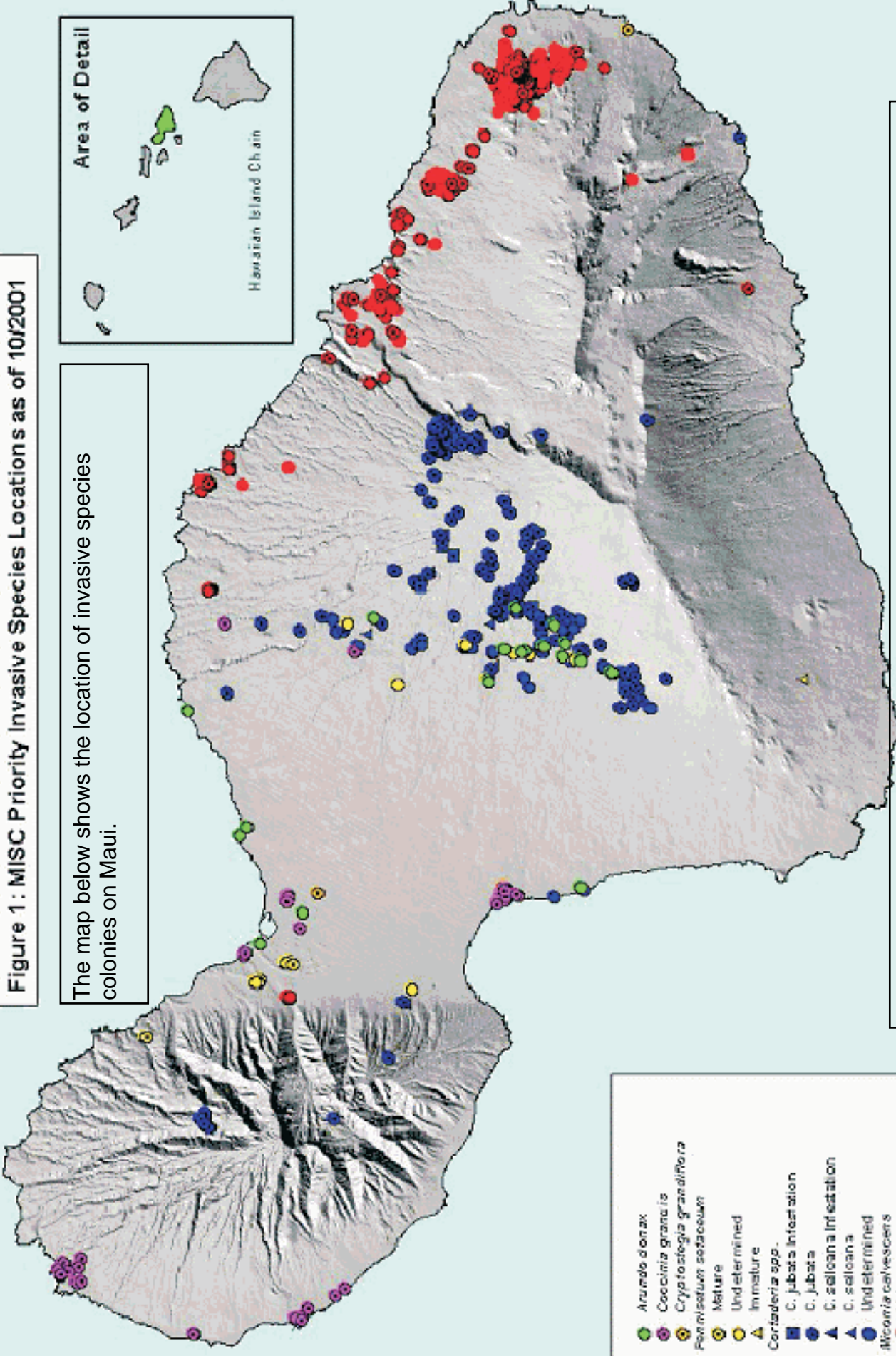


Figure 1: MISC Priority Invasive Species Locations as of 10/2001

The map below shows the location of invasive species colonies on Maui.



The map above shows areas of concern regarding invasive species on Maui.

Appendix: Maui County - Maui Invasive Species Committee

(http://www.hear.org/misc/pdfs/nwf2002fundingcycle_miscproposal_withimages.pdf)

**TABLE OF THREATENED, PROPOSED ENDANGERED, AND ENDANGERED SPECIES
BENEFITED BY MISC ACTION PLAN**

The table lists the 79 current federally threatened and endangered plant species of Maui and indicates which will have their survival negatively affected by uncontrolled spread of the six primary target weed species.

Legend: T = threatened; E = endangered; M = present on Maui; MX = once present on Maui, no populations currently known, but reintroduction from other islands possible and/or possibility still exists for discovery of unknown populations

SPECIES	FEDERAL STATUS	STATUS ON MAUI	THREATS				
			Fountain grass	Pampas grass	Ivy gourd	Miconia	
<i>Abutilon menziesii</i>	E	M	Yes	No	Yes	No	
<i>Acaena exigua</i>	E	M	No	Yes	No	Yes	
<i>Alectryon macrococcus</i> var. <i>auwahiensis</i>	E	M	Yes	No	Yes	No	
<i>Alectryon macrococcus</i> var. <i>macrococcus</i>	E	M	No	Yes	Yes	Yes	
<i>Argyroxiphium sandwicense</i> ssp. <i>macrocephalum</i>	T	M	Yes?	Yes	No	No	
<i>Asplenium fragile</i> var. <i>insulare</i>	E	MX	No	Yes	No	No	
<i>Bidens micrantha</i> ssp. <i>kalealaha</i>	E	M	Yes	Yes	No	No	
<i>Bonamia menziesii</i>	E	M	Yes	No?	Yes	No	
<i>Brighamia rockii</i>	E	MX	?	?	?	?	
<i>Caesalpinia kavaensis</i>	E	MX	Yes	Yes	Yes	Yes	
<i>Cenchrus agrimonoides</i> var. <i>agrimonioides</i>	E	M	Yes	No?	Yes	No	
<i>Centaureum sebaeoides</i>	E	M	Yes	No	Yes	Yes	
<i>Clermontia lindseyana</i>	E	M	No	Yes	No	Yes?	
<i>Clermontia oblongifolia</i> ssp. <i>mauiensis</i>	E	M	No	Yes	No	Yes	
<i>Clermontia peleana</i> ssp. <i>singuliflora</i>	E	MX	No	Yes	No	Yes	

Appendix: Maui County - Maui Invasive Species Committee

http://www.hear.org/misc/pdfs/nfwf2002.fundingcycle_miscproposal_withimages.pdf