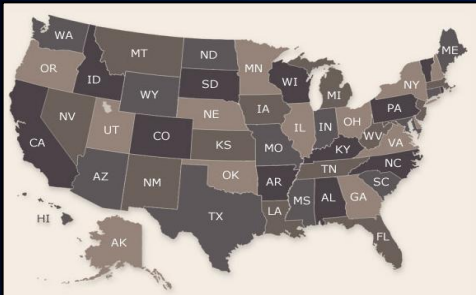




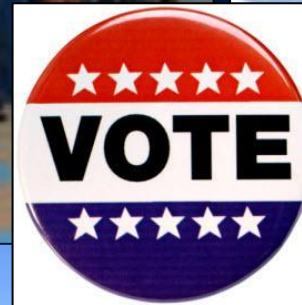
Reapportionment and Redistricting in Hawaii

11 April 2011



One Person, One Vote

equal representation



Topics

- **Background – Three C's**
- **Reapportionment and Redistricting Guidelines**
- **Federal House of Representatives**
- **State Senate and House**

Background – U.S. Constitution

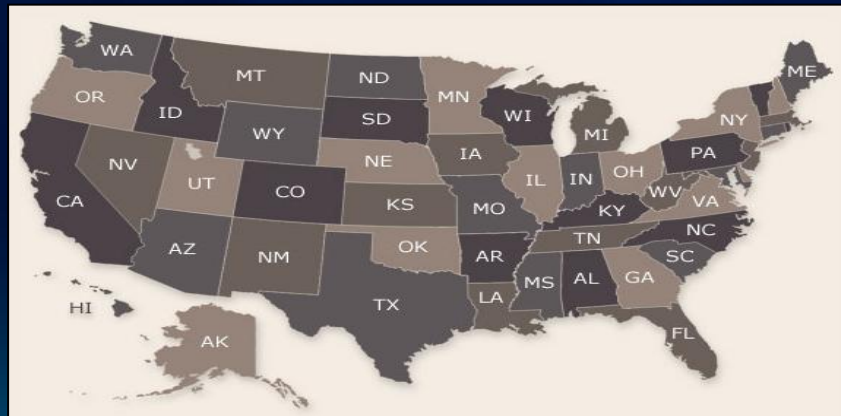


- Article 1, Section 2, Clause 3
 - Representatives “shall be **apportioned among the several States** which may be included within this Union, according to their respective Numbers, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and excluding Indians not taxed, three fifths of all other Persons”.
- 14th Amendment, Section 2
 - Representatives shall be apportioned among the several States according to their respective numbers, counting the whole number of persons in each State, excluding Indians not taxed.
- 1940 Attorney General Opinion
 - In 1940, it was determined that there were no longer any American Indians who should be classed as "not taxed ".

Background – U.S. Congress



- **Senate**
 - **100 members: two from each state**
 - **No reapportionment or redistricting**
- **House of Representatives**
 - **435 members: apportioned every ten years based on population**
 - **Every state gets at least one member**
 - **Wyoming, Vermont, Alaska, North Dakota**
 - **States with larger populations get more members**
 - **California 53, Texas 36, New York 27, Florida 27 (2010 apportionment)**



Background – U.S. Census



United States™
Census
2010

Census Blocks PL 94-171 counts



Background – U.S. Census



United States™
Census
2010

Census Blocks PL 94-171 counts

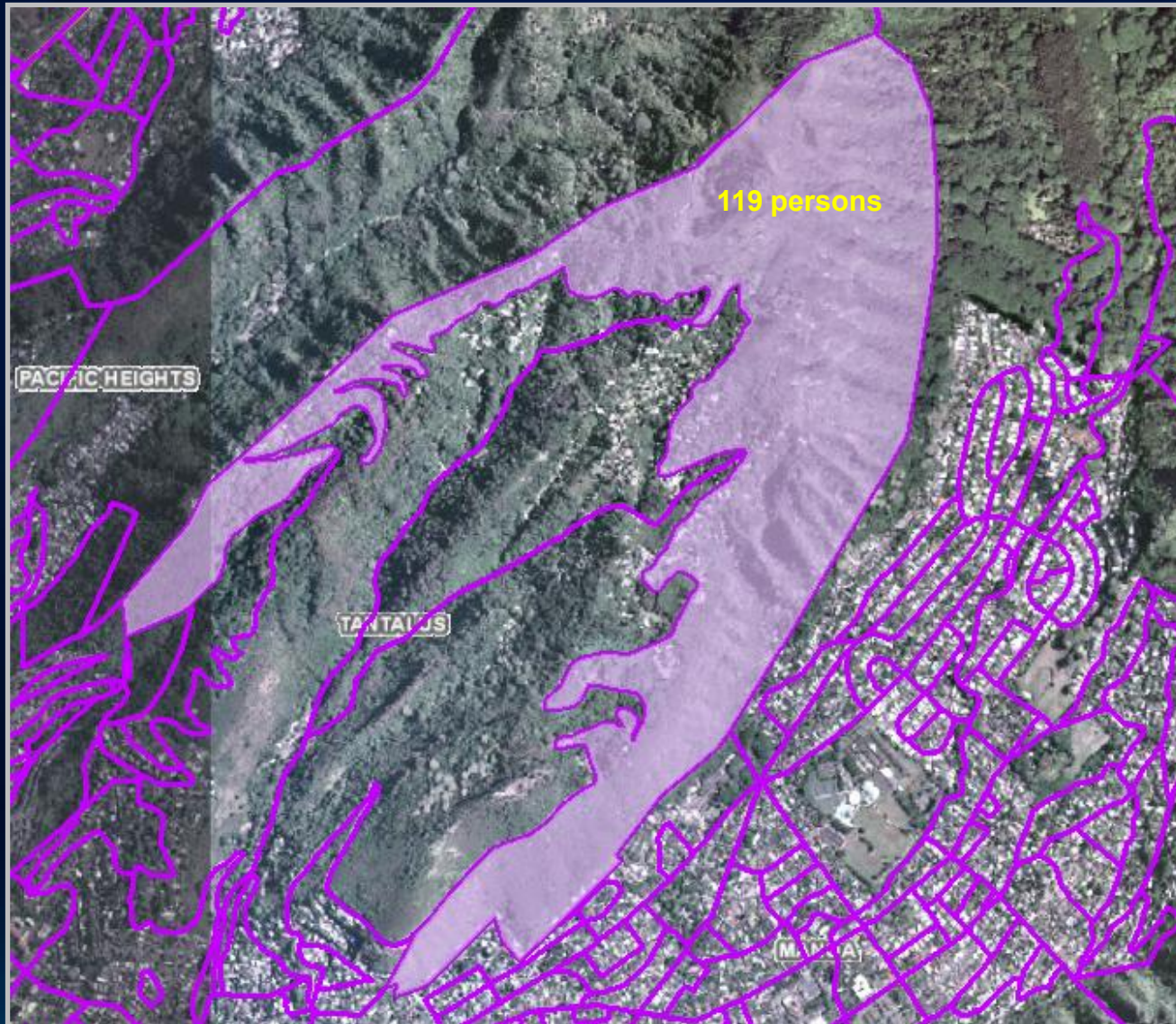


Background – U.S. Census



United States™
Census
2010

Census Blocks PL 94-171 counts

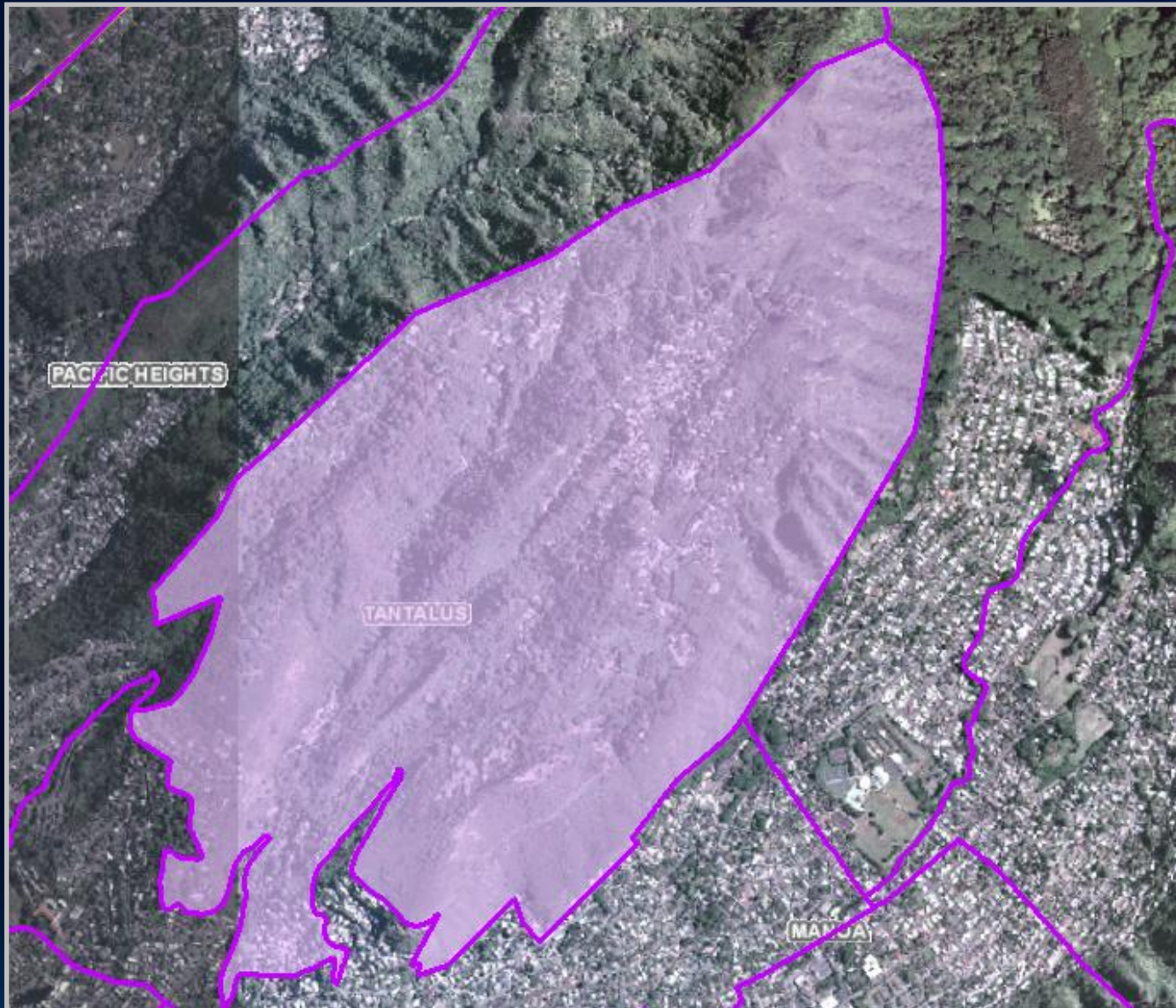


Background – U.S. Census



United States™
Census
2010

Census Tracts PL 94-171 counts



Background – U.S. Census

Census County PL 94-171 counts



Background – U.S. Census



Census State

PL 94-171 counts



Background – U.S. Census

Census National PL 94-171 counts



United States™
Census
2010



Background – U.S. Census



- **First U.S. Census in 1790**

- **Population:** **3,929,214**
- **Largest city:** **New York City** **33,131** **0.8%**

- **U.S. Census in 1900**

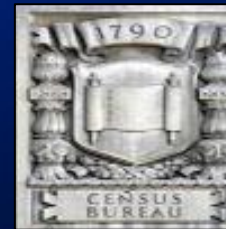
- **Population:** **76,212,168**
- **Largest city:** **New York City** **3,437,202** **4.5%**

- **U.S. Census in 2010**

- **Population:** **308,745,538**
- **Largest city:** **New York City** **8,175,133** **2.6%**
#2 Los Angeles **3,792,621** **1.2%**

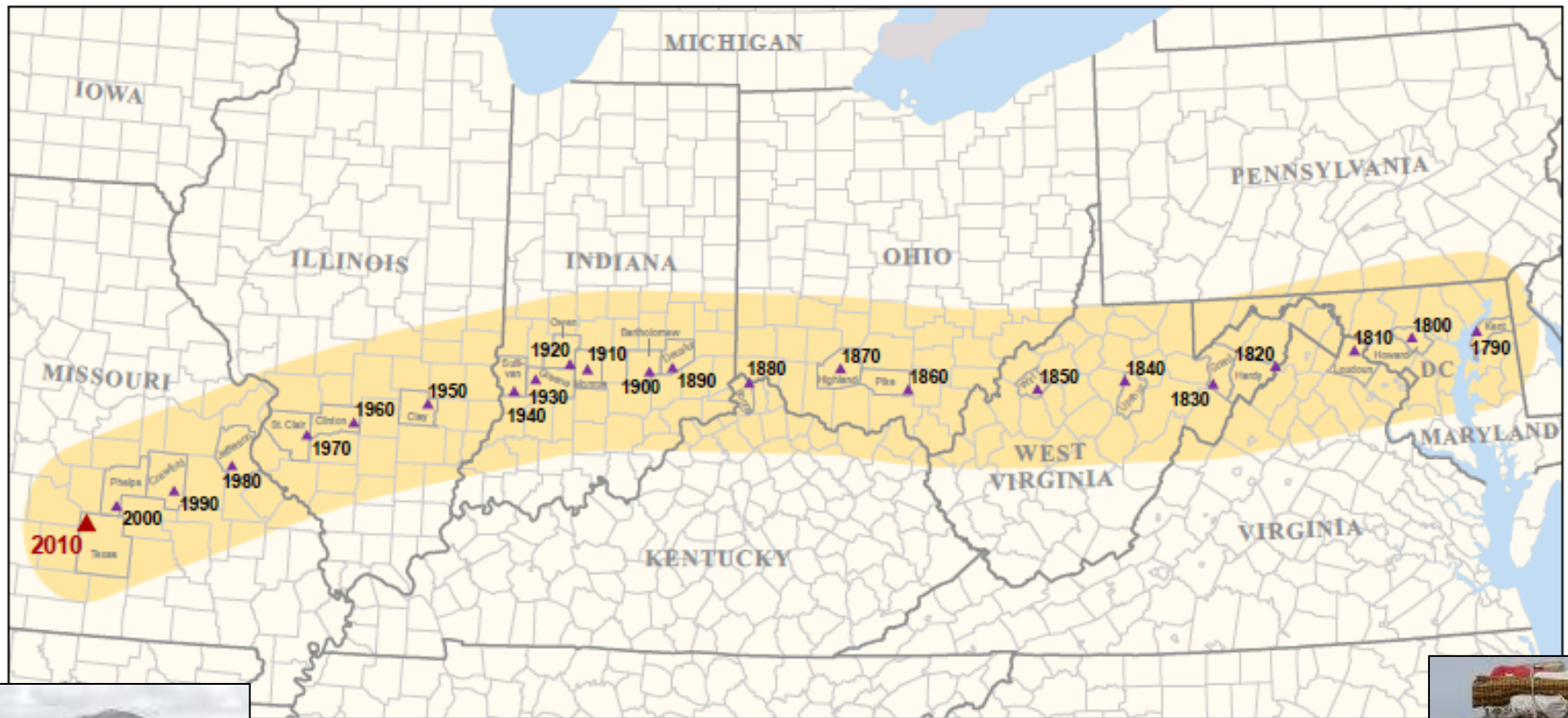


Background – U.S. Census



United States™
Census
2010

Mean Center of Population for the United States: 1790 to 2010



04/11/2011



Page 14 of 47

Reapportionment

435 seats according to population



Hawaii 2010 population: 1,360,301

U.S. House of Representatives: 2 members from Hawaii

Redistricting

- 7 states: only one representative
- 35 states: state legislature
- 2 states: commission, leg approves
- 6 states: independent/bipartisan



Redistricting

Bipartisan Reapportionment Commission

- **Nine members**

- 2 appointed by the President of the Senate
 - Shan Tsutsui **Lorrie Lee Stone, Anthony Takitani**

- 2 appointed by the Speaker of the House
 - Calvin Say **Clarice Hashimoto, Harold Masumoto**

- 2 appointed by the Senate Minority Leader
 - Sam Slom **Calvert Chipchase, Elizabeth Moore**

- 2 appointed by the House Minority Leader
 - Gene Ward **Dylan Nonaka, Terry Thomason**

- Ninth member, the Chair, is selected by these eight **???**

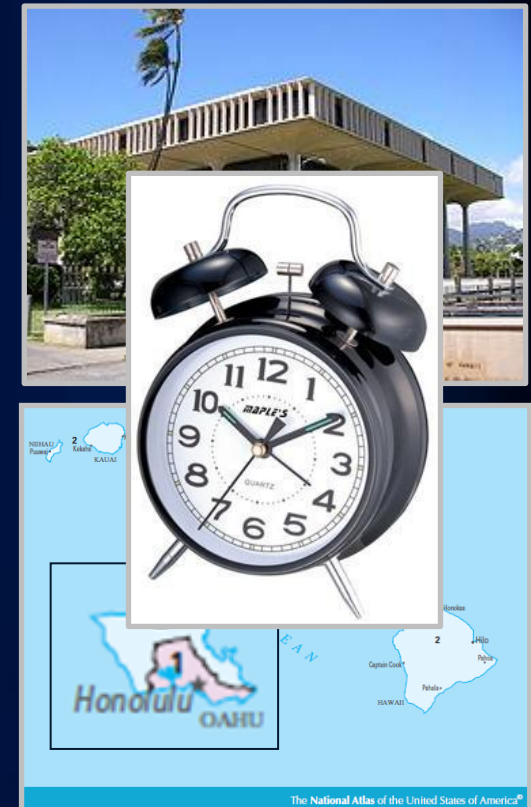


Redistricting

Bipartisan Reapportionment Commission

3 months

- 9 members on Commission
- 16 members on Advisory Council
- **100 days** to generate the plan
 - Federal House of Representatives
 - State Senate
 - State House
- Then 50 days for public comments
- 150 total days



Topics

- Background – Three C's
- **Reapportionment and Redistricting Guidelines**
- Federal House of Representatives
- State Senate and House

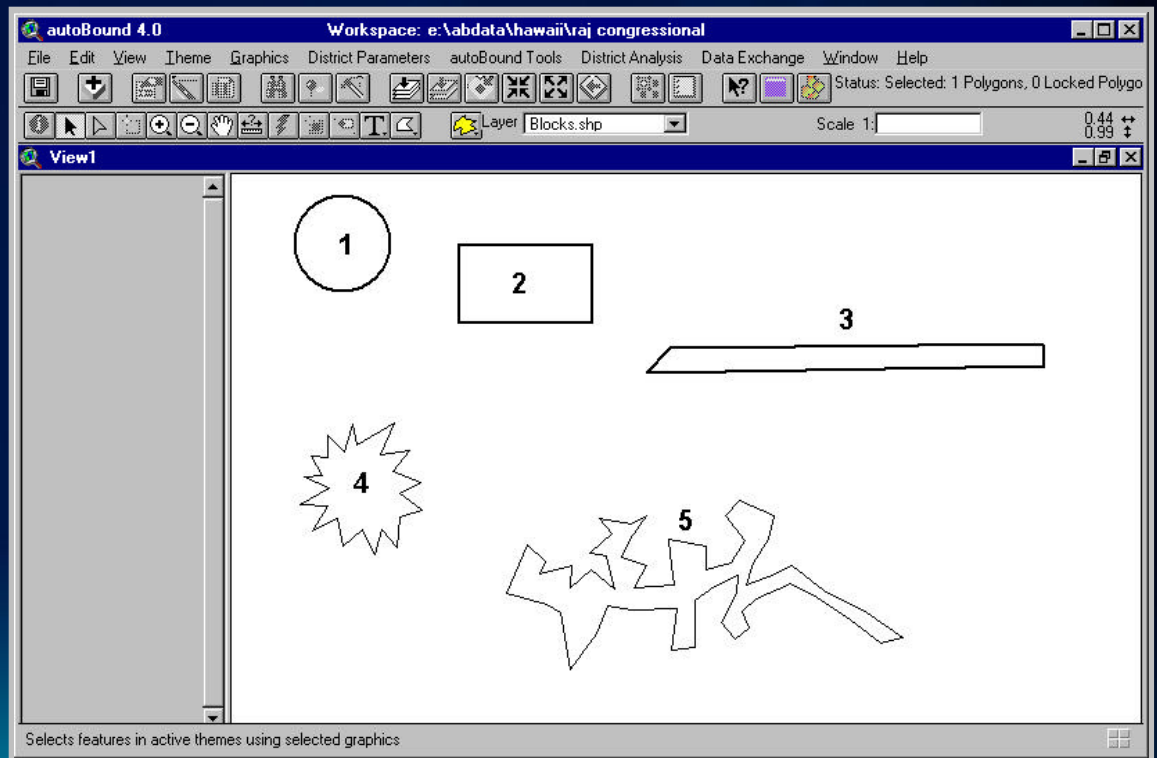
Topics

- Background – Three C's
- **Reapportionment and Redistricting Guidelines**
 - 1) Determine population base
 - 2) Apportion representatives (reapportionment)
 - 3) Draw district boundary lines (redistricting)
- Federal House of Representatives
- State Senate and House

Redistricting

Guidelines

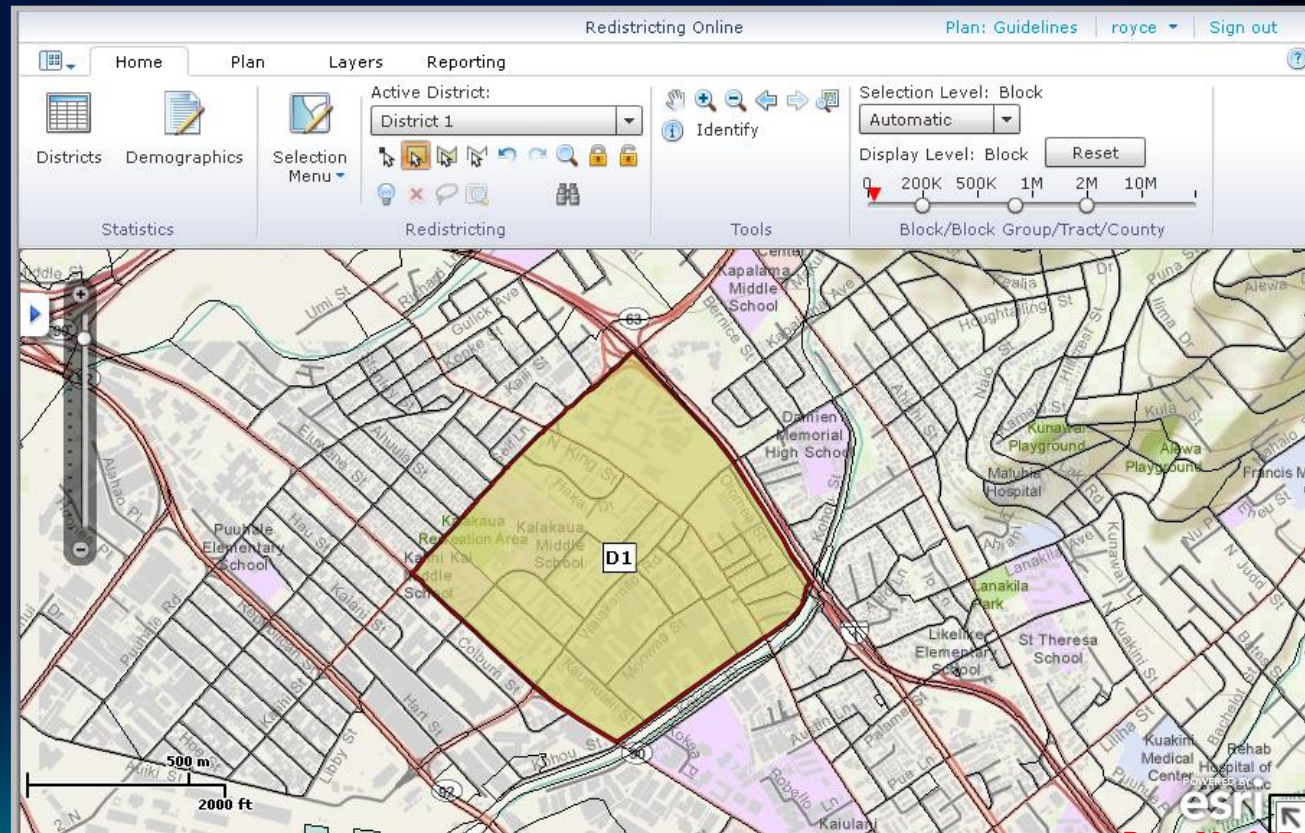
- Compact



Redistricting

Guidelines

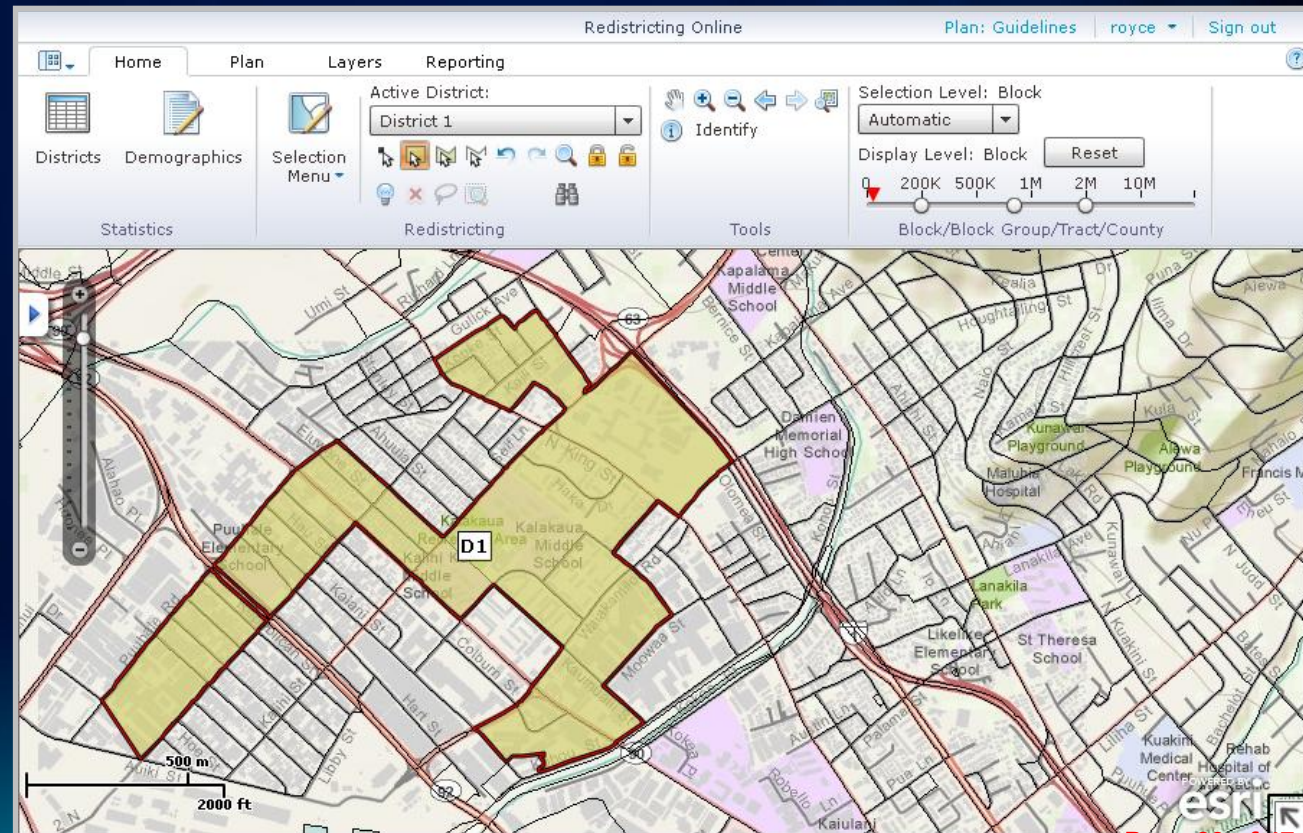
- Compact



Redistricting

Guidelines

- Compact

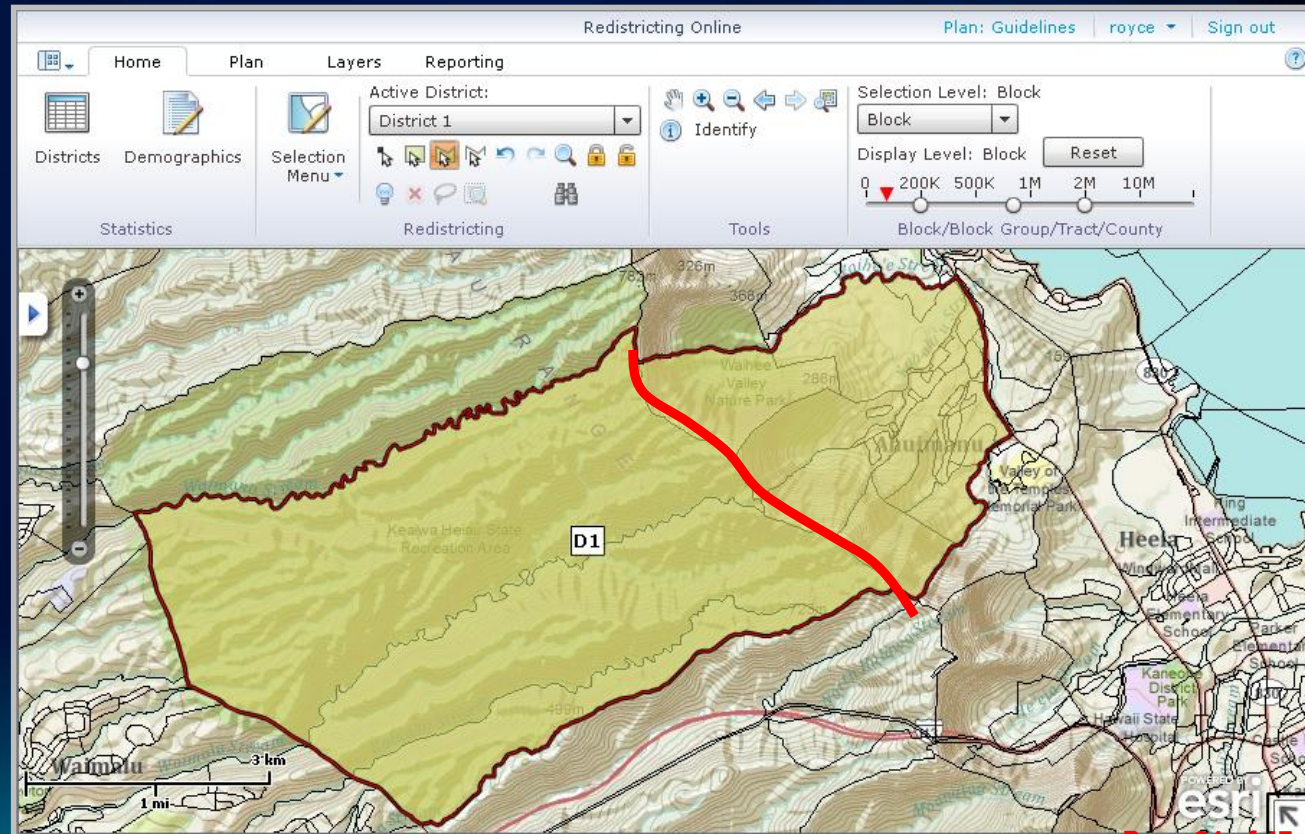


Redistricting

Guidelines

- Compact

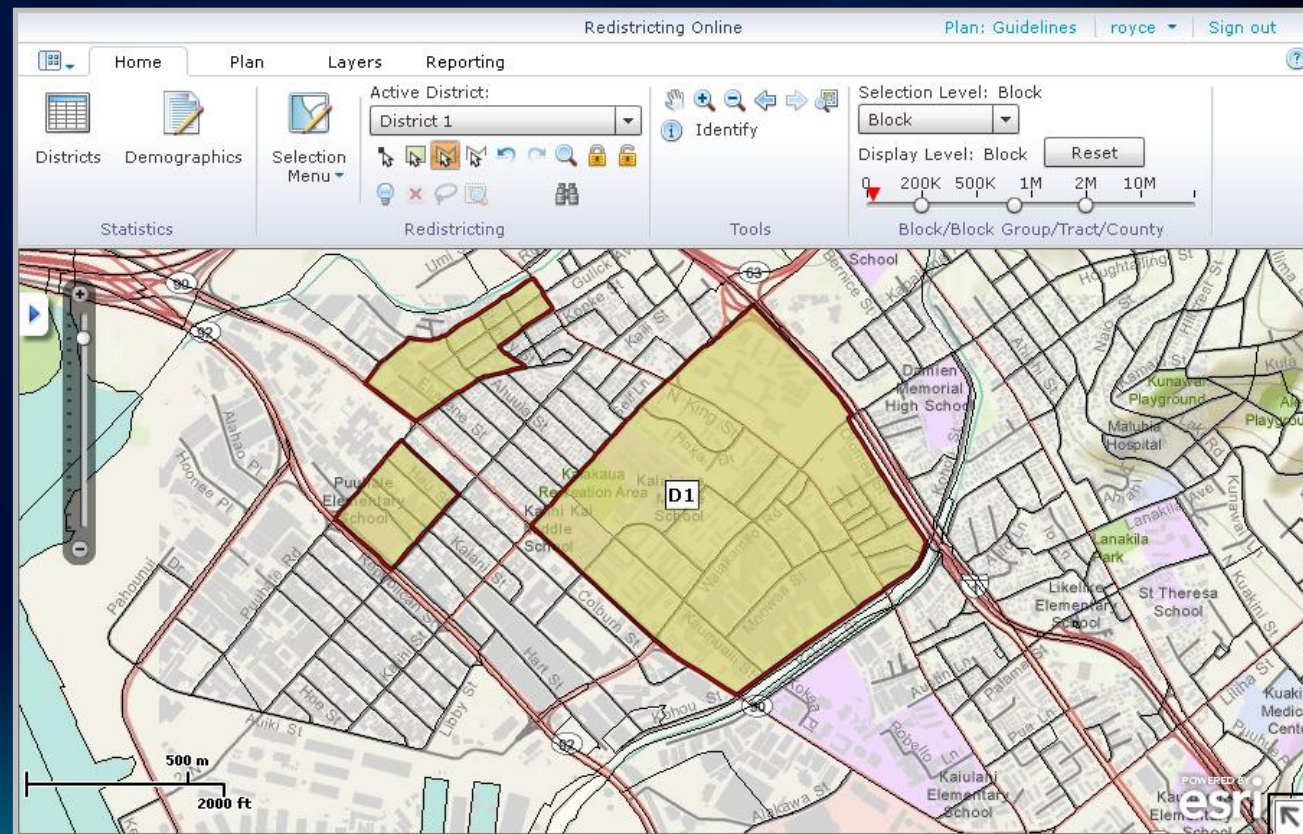
- geometrically
- geographically



Redistricting

Guidelines

- Compact
- Geographically
- No disconnects

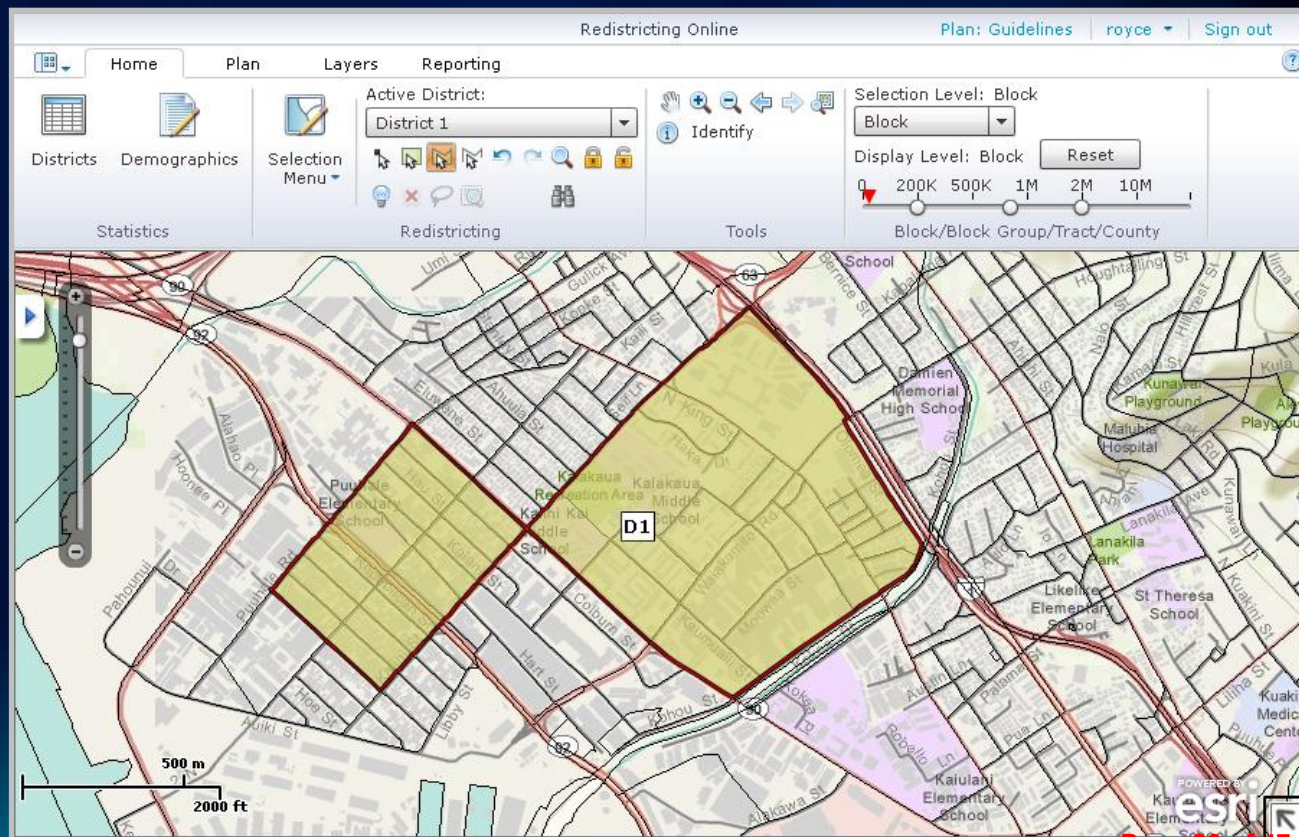


Redistricting

Guidelines

- Compact
- Contiguous

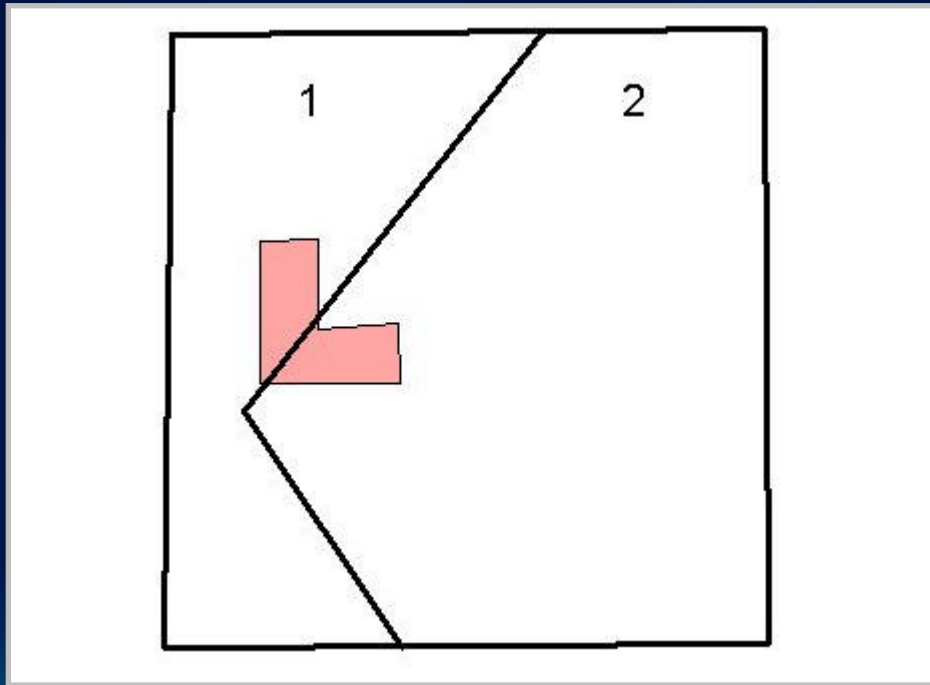
- geometrically
- geographically
- no disconnects
- no “one point” connections



Redistricting

Guidelines

- Compact
- Contiguous
- No submergence
- geometrically
- geographically
- no disconnects
- no “one point” connections
- preserve socio-economic communities



Redistricting

Guidelines

- Compact
 - geometrically
 - geographically
- Contiguous
 - no disconnects
 - no “one point” connections
- No submergence
 - preserve socio-economic communities

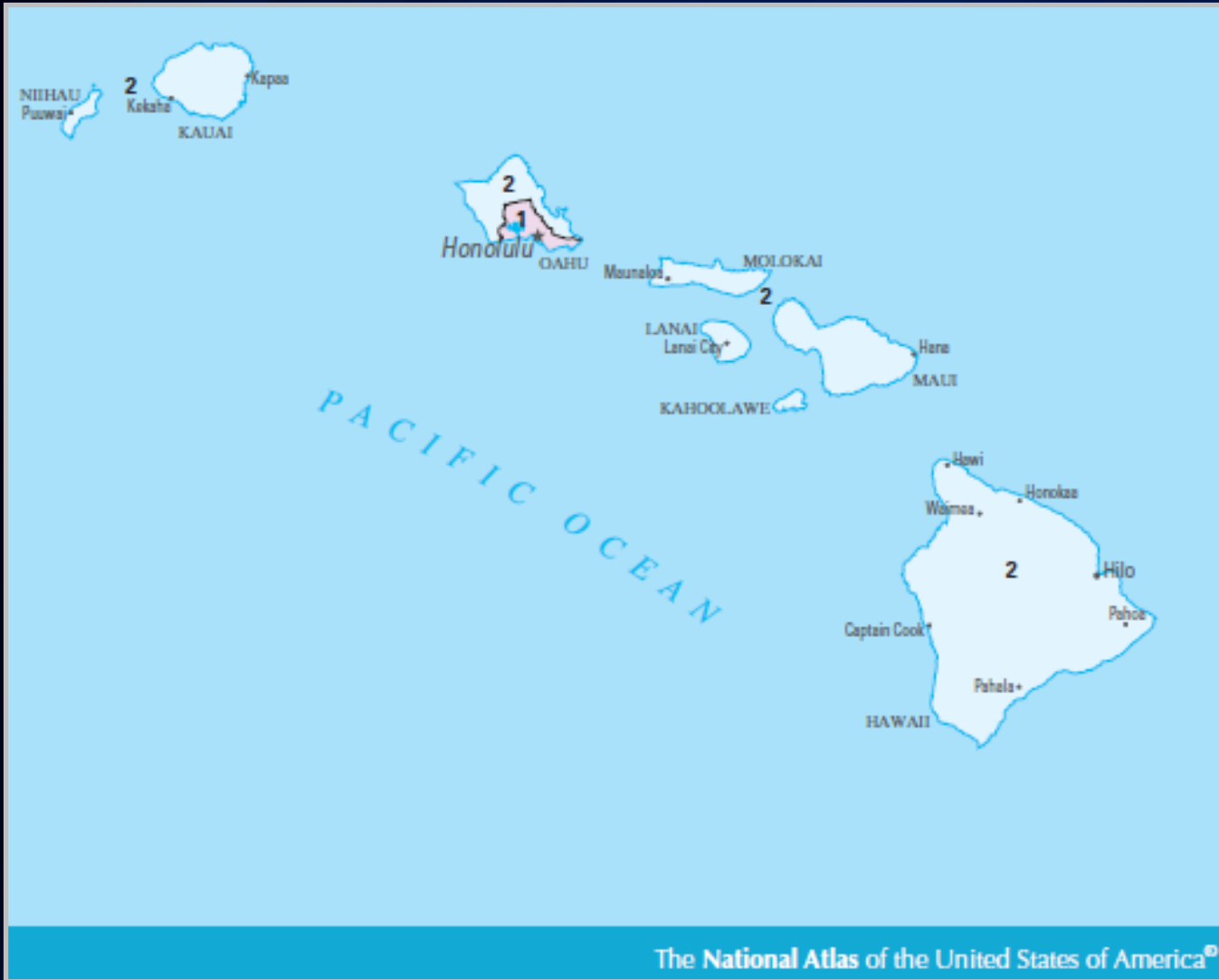
“where practicable”

Topics

- Background – Three C's
- Reapportionment and Redistricting Guidelines
- **Federal House of Representatives**
- State Senate and House

Redistricting

Federal House of Representatives

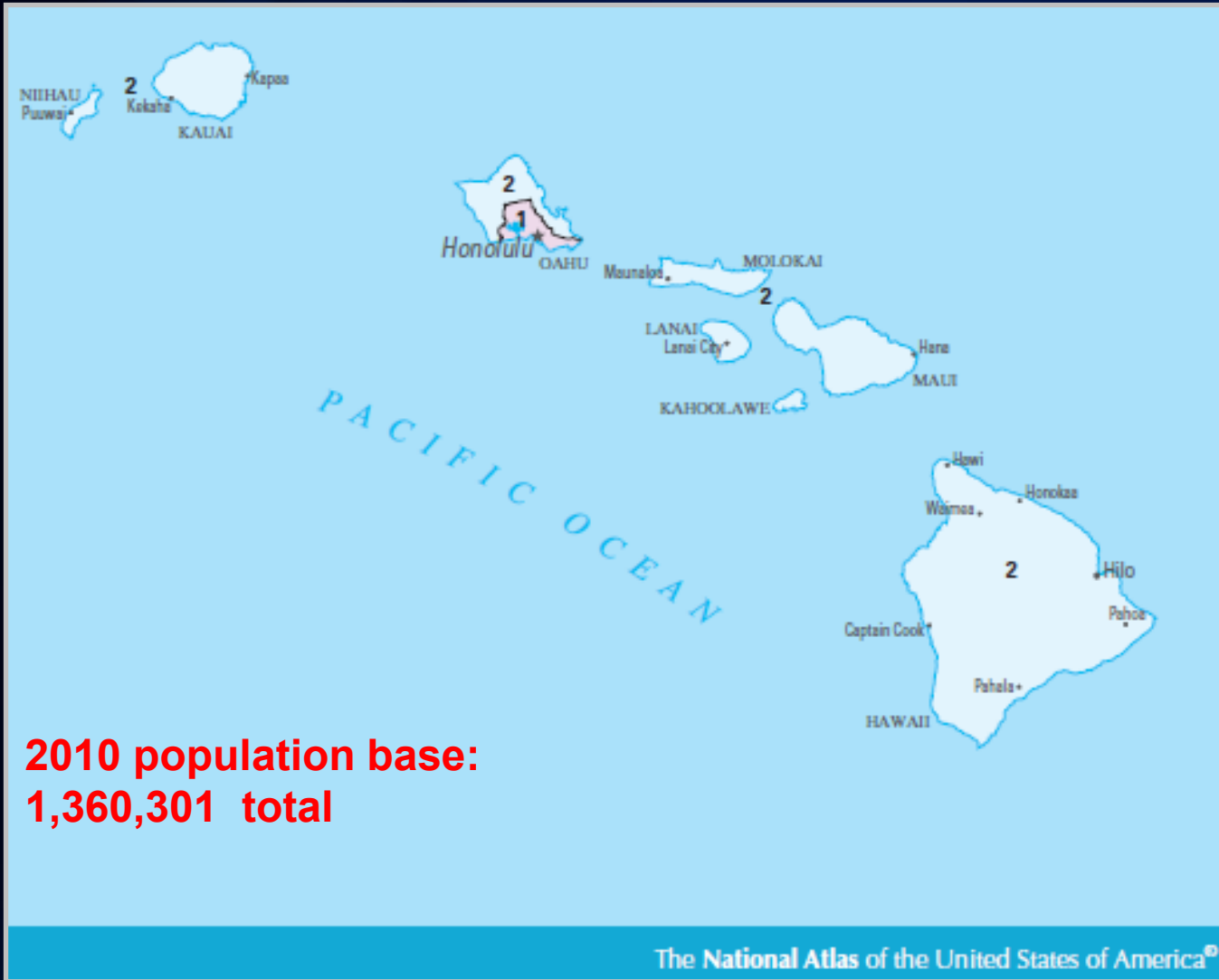


- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Redistricting

Federal House of Representatives

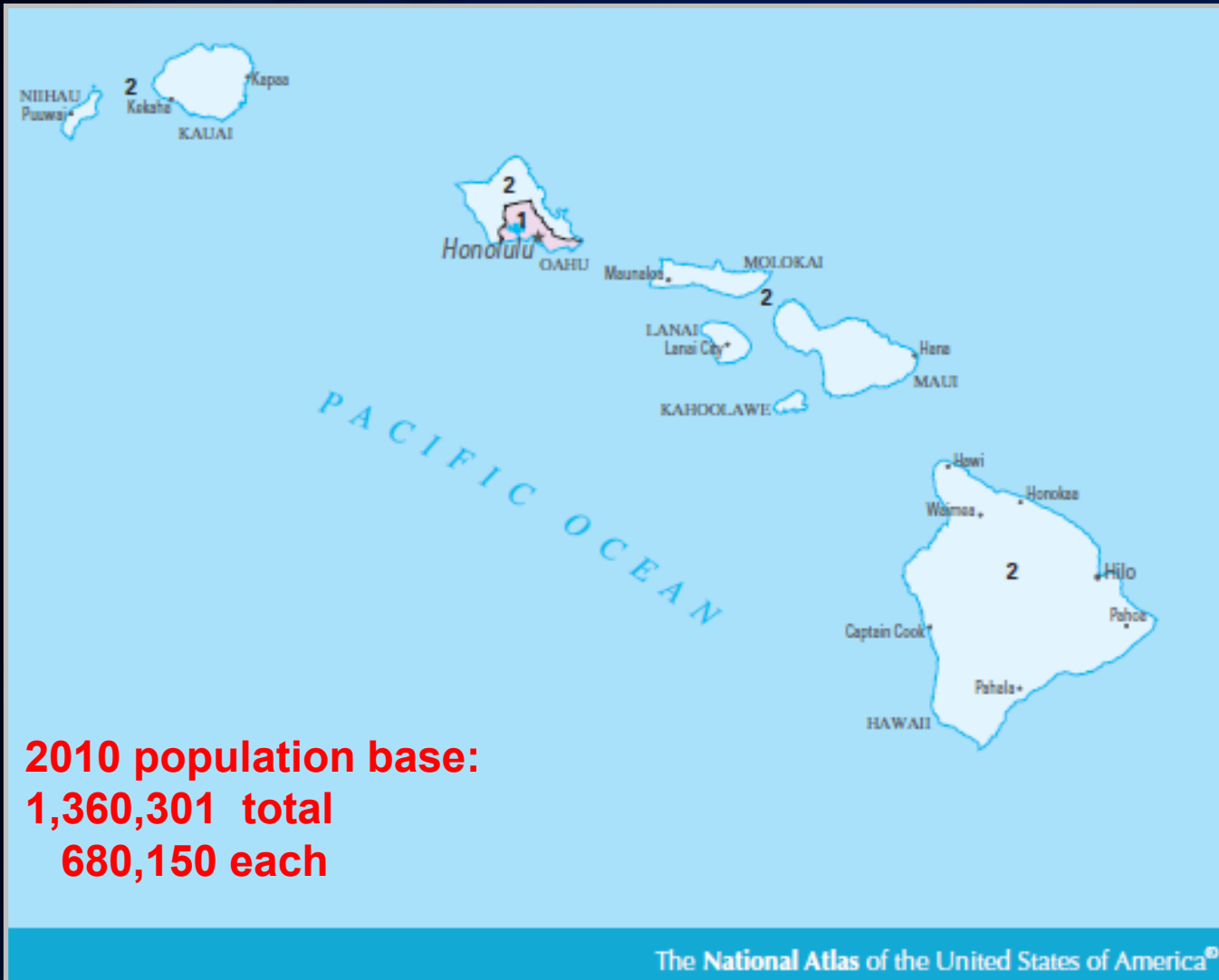


- ✓ 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Redistricting

Federal House of Representatives

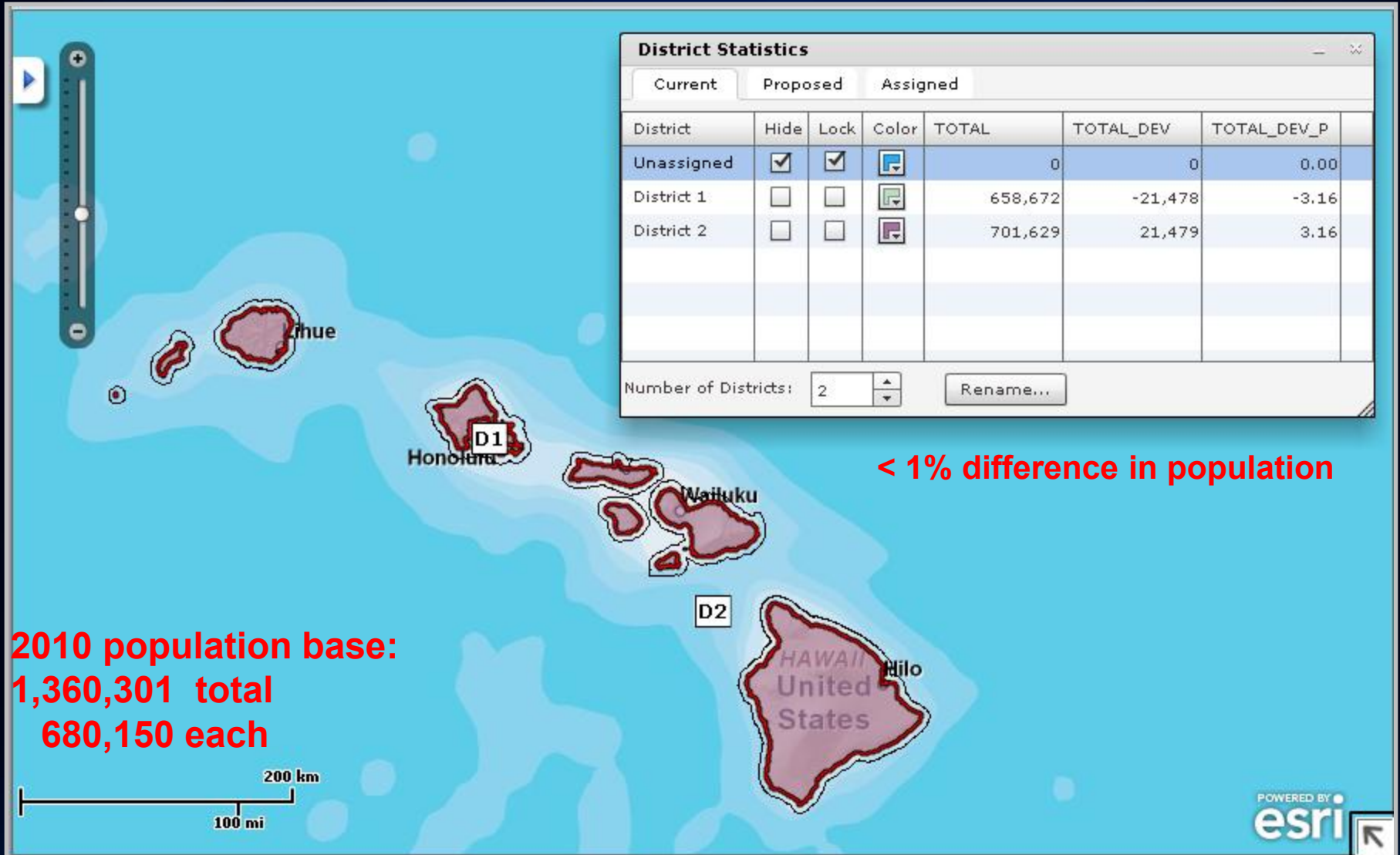


- ✓ 1) population base
- ✓ 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Redistricting

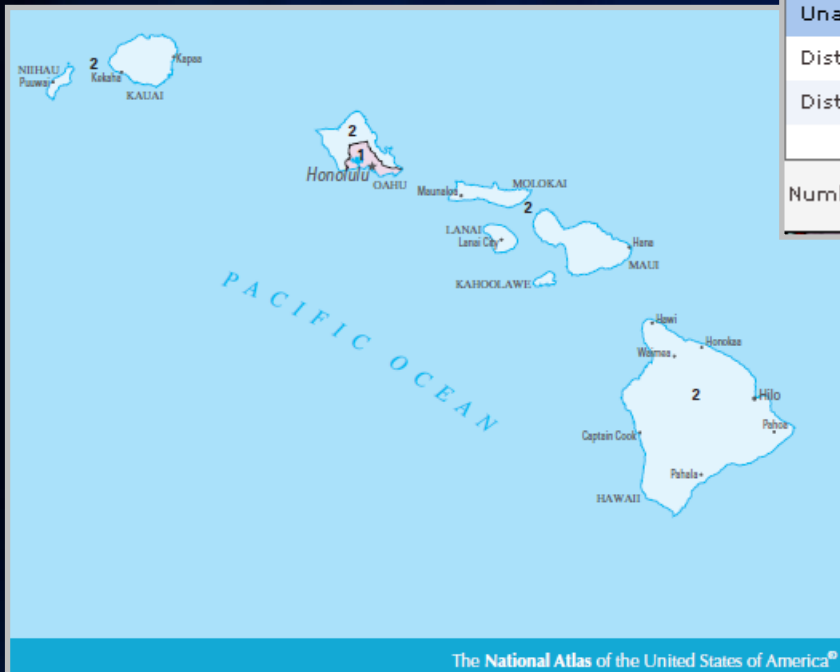
Federal House of Representatives



Redistricting

Guidelines

- Compact
 - Contiguous
 - No submergence
 - Total deviation within 1%
- geometrically
 - geographically
 - no disconnects
 - no “one point” connections
 - preserve socio-economic communities



District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
District 1	<input type="checkbox"/>	<input type="checkbox"/>		658,672	-21,478	-3.16
District 2	<input type="checkbox"/>	<input type="checkbox"/>		701,629	21,479	3.16

Number of Districts: 2

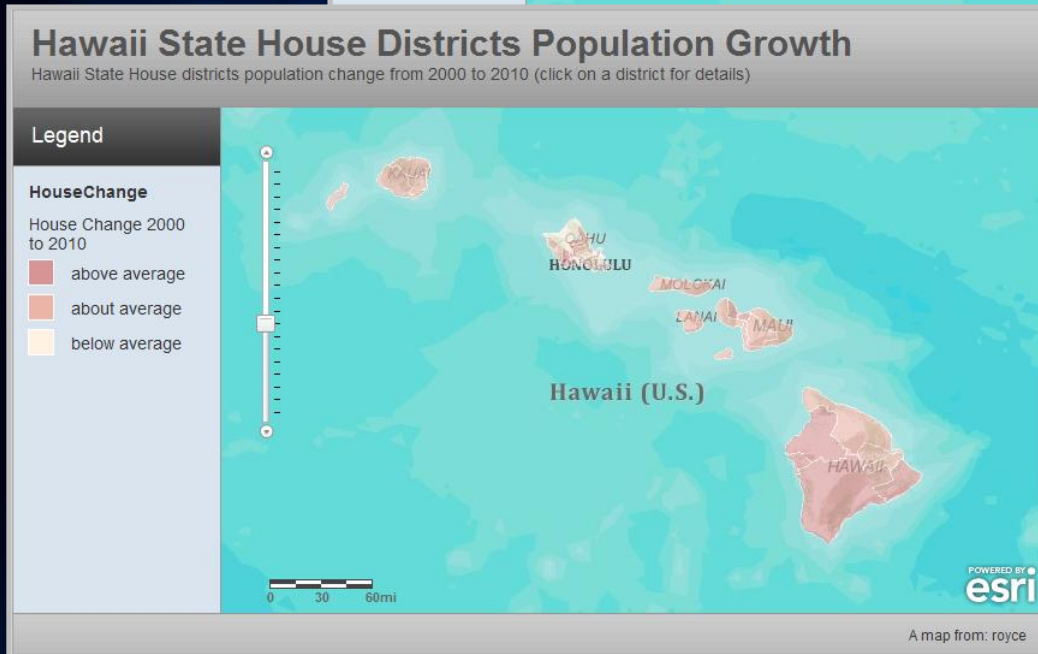
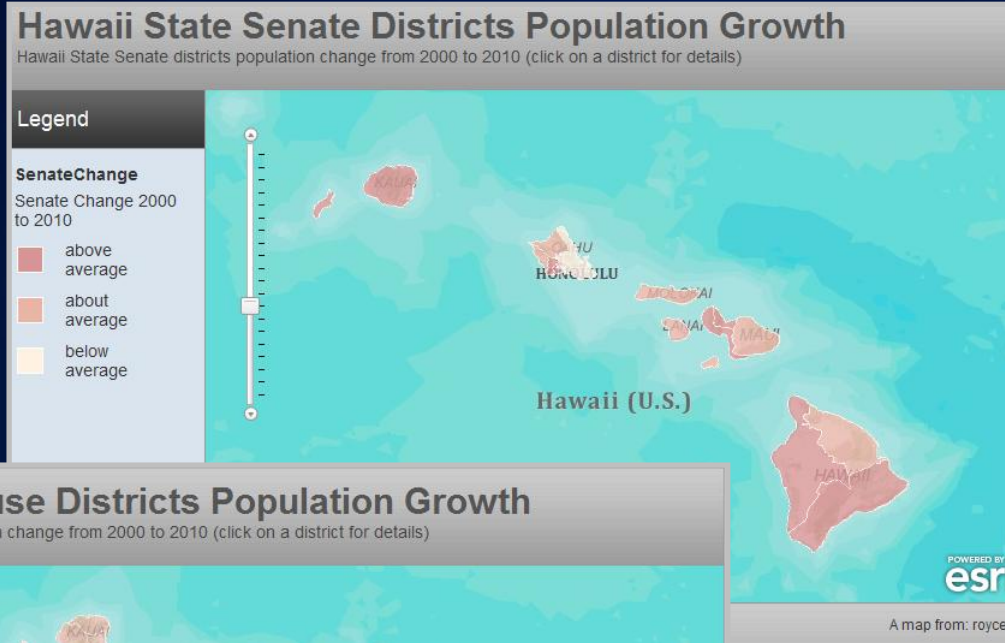
2010 Population base:
1,360,301 total
680,150 each

Topics

- Background – Three C's
- Reapportionment and Redistricting Guidelines
- Federal House of Representatives
- **State Senate and House**

Redistricting

State Senate and House



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Hawaii Population Base

Federal census



United States™
Census
2010



Hawaii Population Base



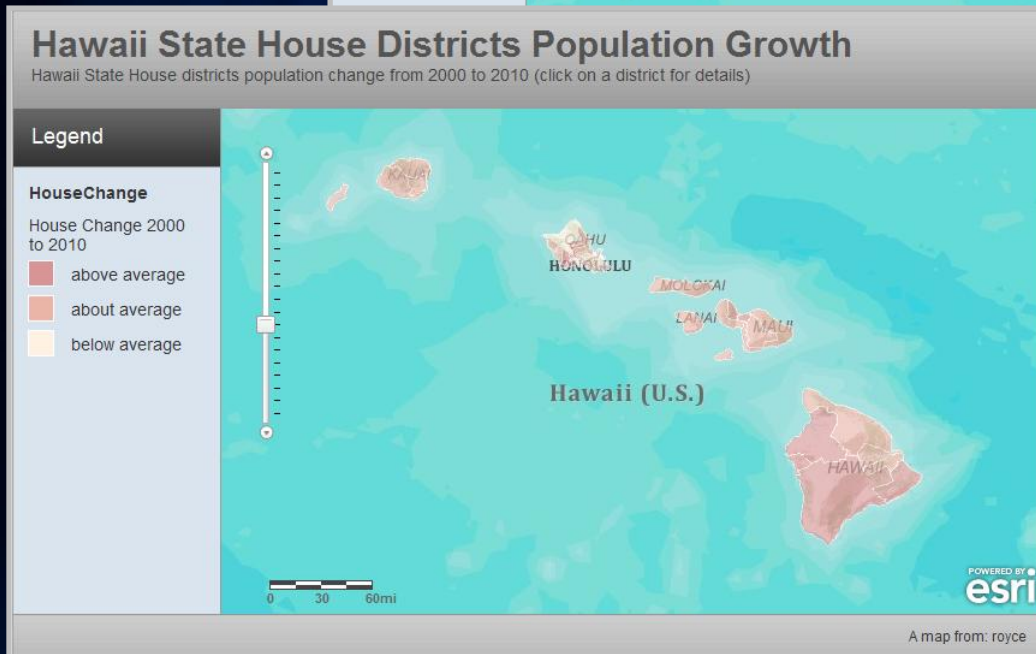
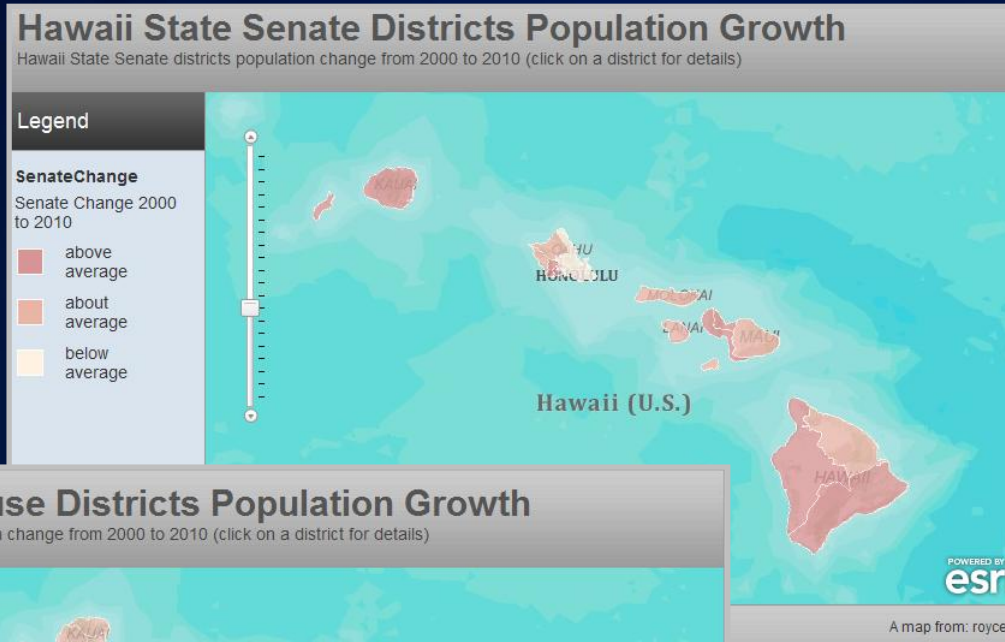
**Population base:
1,360,301 total**

State population base:

- **Permanent residents of Hawaii**
- **What about:**
 - **Sentenced felons?**
 - **Non-resident students?**
 - **Non-resident military? and their dependents?**

Redistricting

State Senate and House



- ? 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Apportion Representatives

Permanent Residents of Hawaii



Population base:
1,360,301 total

State population base:
1,360,301 total

State Senate (25 seats):
54,412 per district
ideal target

State House (51 seats):
26,673 per district
ideal target

Hawaii Redistricting

Guidelines

- Compact
- Contiguous
- No submergence
- Balance within 10%

**State House (51 seats):
26,673 per district**

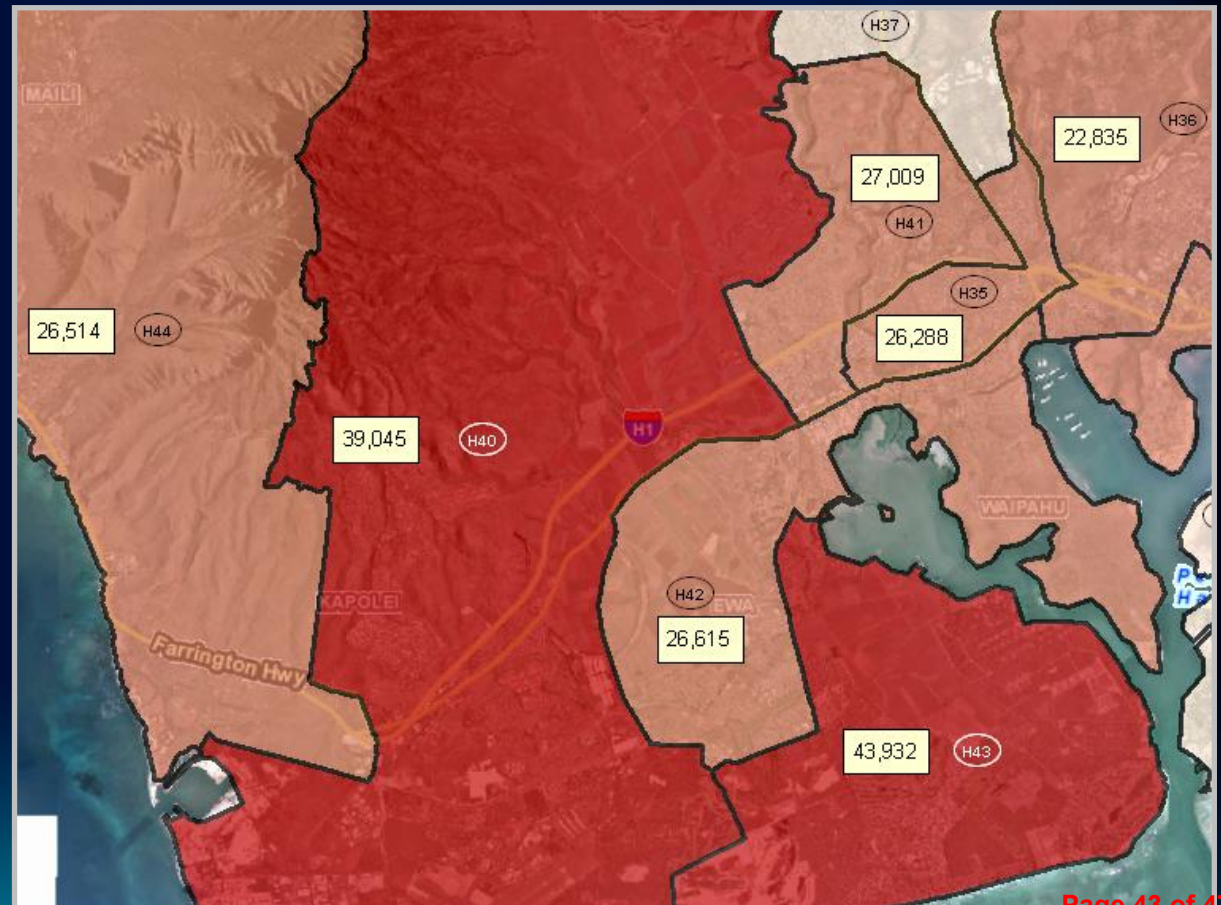


Hawaii Redistricting

Guidelines

- Compact
- Contiguous
- No submergence
- Balance within 10%

**State House (51 seats):
26,673 per district**



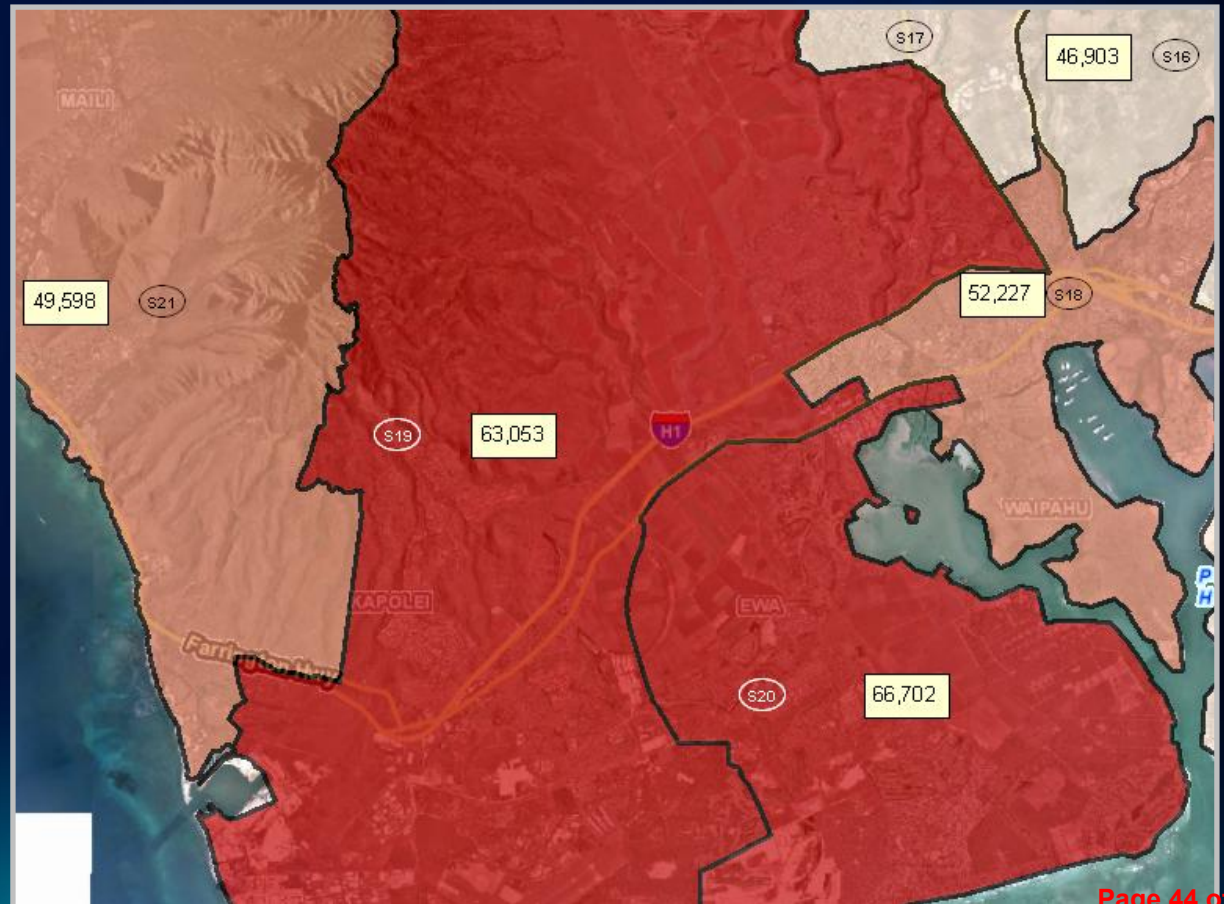
Hawaii Redistricting

Guidelines

- Compact
- Contiguous
- No submergence
- Balance within 10%

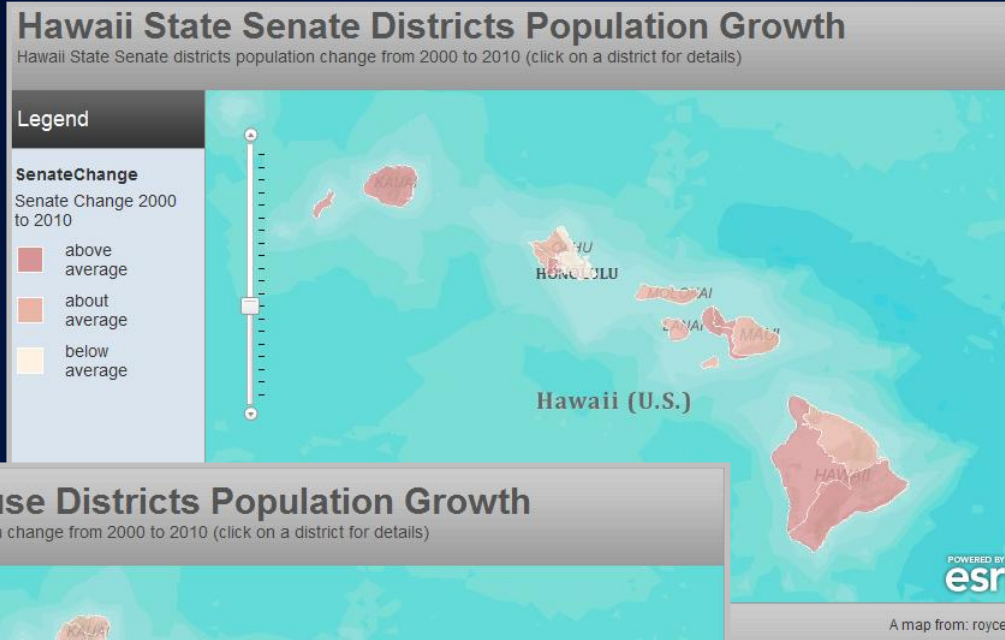
**State Senate (25 seats):
54,412 per district**

**State House (51 seats):
26,673 per district**

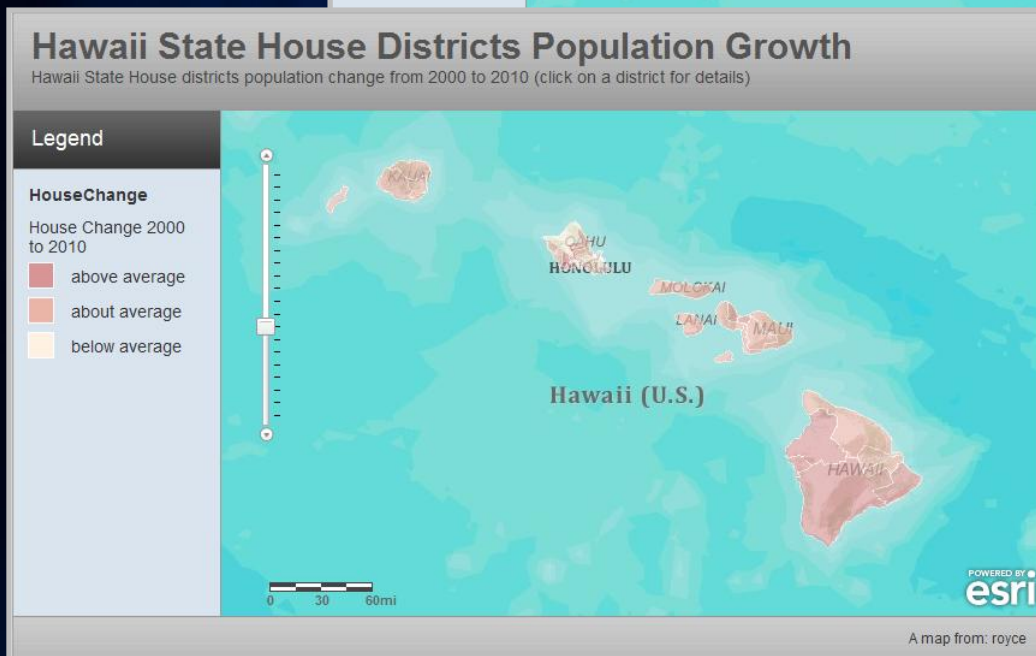


Redistricting

State Senate and House



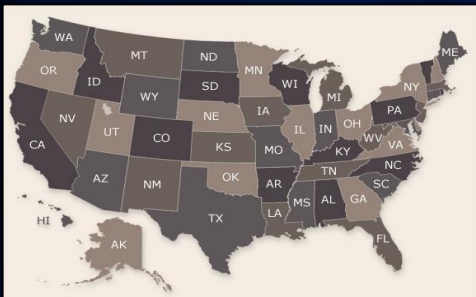
- ? 1) population base
- ? 2) apportion representatives (reapportionment)
- ? 3) draw district boundaries (redistricting)





Reapportionment and Redistricting in Hawaii

11 April 2011





Hawaii Reapportionment Commission

3 August 2011

Reapportionment Project Office: Contact Information

Address:

State Capitol
415 South Beretania Street, Rm #445
Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

Fax: (808) 586-4105

Email: reapportionment@hawaii.gov

[Build Redistricting Plans Online!](https://redistricting.hawaii.gov/)

<https://redistricting.hawaii.gov/>

✓ Create District Plans ✓ Share Plans ✓ Review Plans ✓ Submit Plans

Open

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Review

Share

Submit



www.olelo.org/olelonet

Search Archives:

Topics

- **State Population Base**
- **Reapportionment Among Basic Island Units**
- **Redistricting Within Basic Island Units**
- **Proposed Plans: Findings and Recommendations of the Technical Committee**
 - **Congress**
 - **Senate**
 - **House**
- **Commission Schedule – Public Hearings**

State Population Base

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

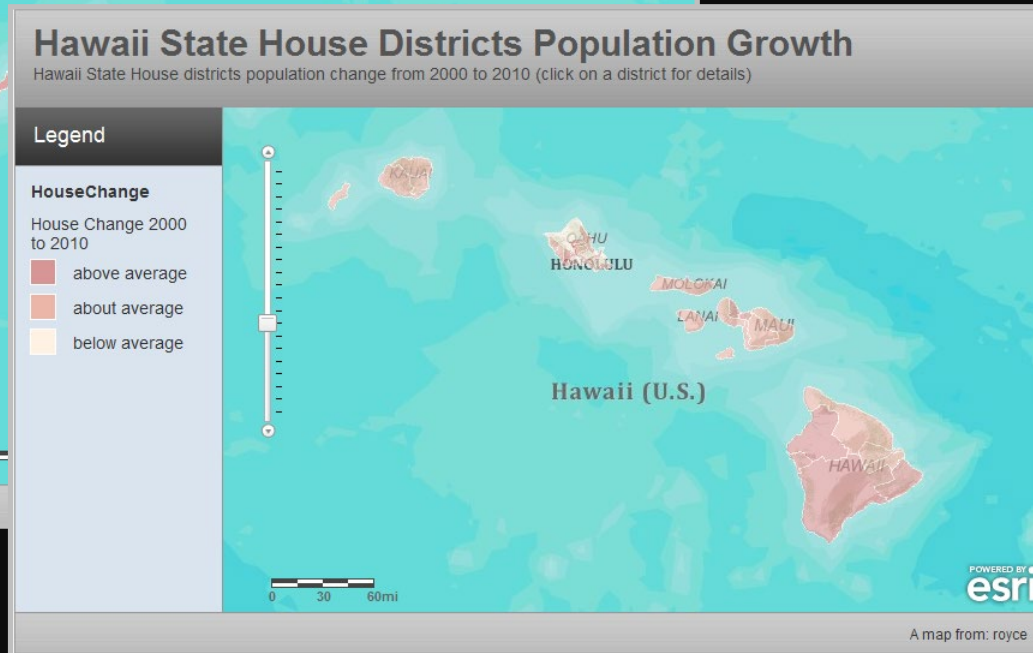
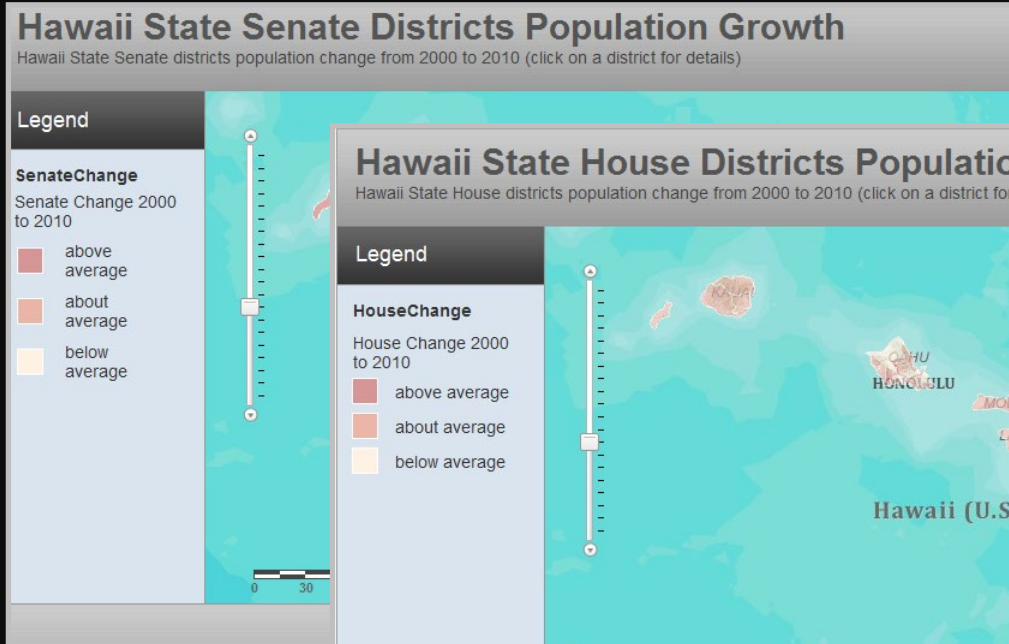
State	1,360,301	12%	+148,764
Oahu	953,207	9%	+77,051
Hawaii	185,079	24%	+36,402
Maui	154,924	21%	+26,683
Kauai	67,091	15%	+8,628



1) population base

2) apportion representatives
(reapportionment)

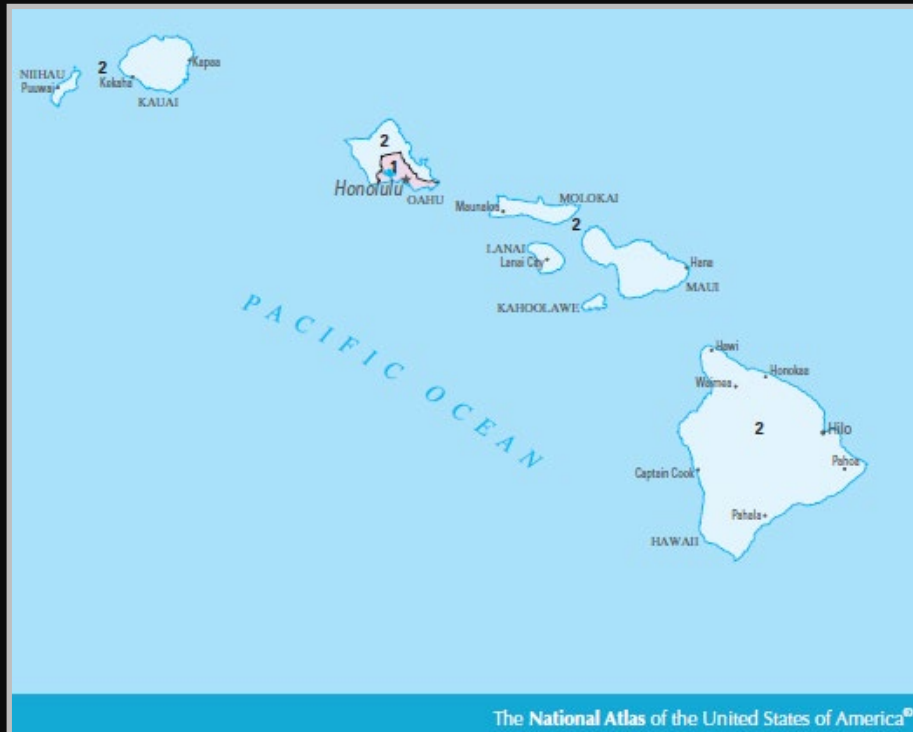
3) draw district boundaries
(redistricting)



Reapportionment Among Basic Island Units

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

State	1,360,301	12%	+148,764
Oahu	953,207	9%	+77,051
Hawaii	185,079	24%	+36,402
Maui	154,924	21%	+26,683
Kauai	67,091	15%	+8,628



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Redistricting Within Basic Island Units

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

State	1,360,301	12%	+148,764
Oahu	953,207	9%	+77,051
Hawaii	185,079	24%	+36,402
Maui	154,924	21%	+26,683
Kauai	67,091	15%	+8,628

Senate Seats by Basic Island Unit

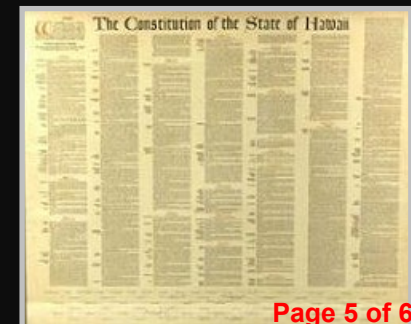
State	1,360,301	25	target
Oahu	953,207	18	52,956
Hawaii	185,079	3	61,693
Maui	154,924	3	51,641
Kauai	67,091	1	67,091

House Seats by Basic Island Unit

State	1,360,301	51	target
Oahu	953,207	35	27,234
Hawaii	185,079	7	26,440
Maui	154,924	6	25,821
Kauai	67,091	3	22,364



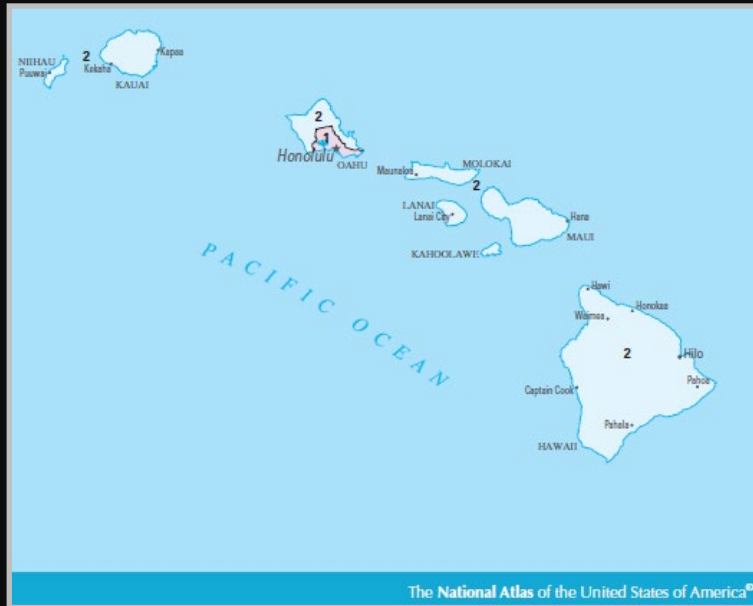
- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Redistricting Within Basic Island Units

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

State	1,360,301	12%	+148,764
Oahu	953,207	9%	+77,051
Hawaii	185,079	24%	+36,402
Maui	154,924	21%	+26,683
Kauai	67,091	15%	+8,628



Congress

State 1,360,301 2

target

680,151



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Proposed Plans: Findings and Recommendations of the Technical Committee



Welcome to the Hawai'i Redistricting Online Application!

Hawai'i Redistricting Online assists the Hawai'i State Reapportionment Commission, State Reapportionment Advisory Councils, advocacy groups, and the general public in drawing legislative and congressional redistricting plans following the 2010 U.S. Census. This ArcGIS software platform and pertinent dataset components provide comprehensive features and functionality for plan management, visualization, editing, and community collaboration.

In establishing the boundaries of the districts, the Hawai'i Reapportionment Commission will give consideration to the following factors: (a) population deviation from ideal district targets (b) cohesiveness, contiguity, integrity, and compactness of territory, and (c) socio-economic interests of the districts.

Plans submitted by Advisory Councils or the public prior to July 26, 2011 will be reviewed by the Commission before their proposed plan is published. There will be time for the Commission to receive and review additional plans while the proposed plan is being reviewed in the public hearing phase. Plans submitted by Advisory Councils or the public on or after July 26, 2011 and prior to the last public hearing date (no later than September 16, 2011), will be reviewed by the Commission after the final plan is published.

HAWAII COUNTY COUNCIL NOTICE: You may use this application to create a plan for Hawai'i County Council, HOWEVER, you must follow the directions provided by the Hawai'i County Redistricting Commission for submitting plans. DO NOT USE THE "SUBMIT" BUTTON. The State of Hawai'i Reapportionment Commission is not responsible for Hawai'i County Council plans.

How to use this tool:



<https://redistricting.hawaii.gov/>

Proposed Plans: Findings and Recommendations of the Technical Committee



176 accounts created
14 public plans submitted by July 26th

Congress	1 plan
Honolulu Senate	2 plans
Honolulu House	2 plans
Hawaii Senate	7 plans
Hawaii House	2 plans

Topics

- State Population Base
- Reapportionment Among Basic Island Units
- Redistricting Within Basic Island Units
- ➔ • **Proposed Plans: Findings and Recommendations of the Technical Committee**
 - Congress
 - Senate
 - House
- Commission Schedule – Public Hearings

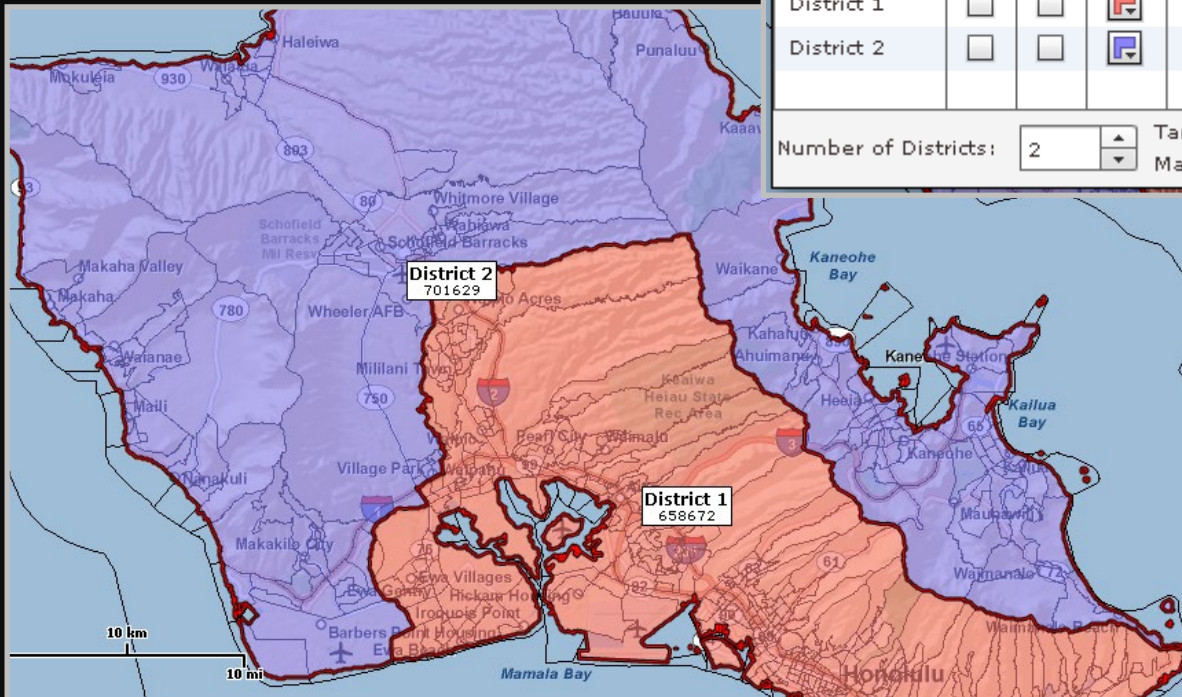
Existing Congress

HAWAII REAPPORTIONMENT COMMISSION

Plan: Existing Congress
 Districts: two (Congress 1 - 2)
 Target Population: 680,151 per district

EXISTING CONGRESS

Plan Deviation: 6.32%
 highest deviation: 3.16%
 lowest deviation: -3.16%



District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
District 1	<input type="checkbox"/>	<input type="checkbox"/>		658,672	-21,478	-3.16
District 2	<input type="checkbox"/>	<input type="checkbox"/>		701,629	21,479	3.16

Number of Districts: 2 Target Mean = 680,151
 Maximum Dev. (%): 1 [Swap...](#) [Rename...](#)

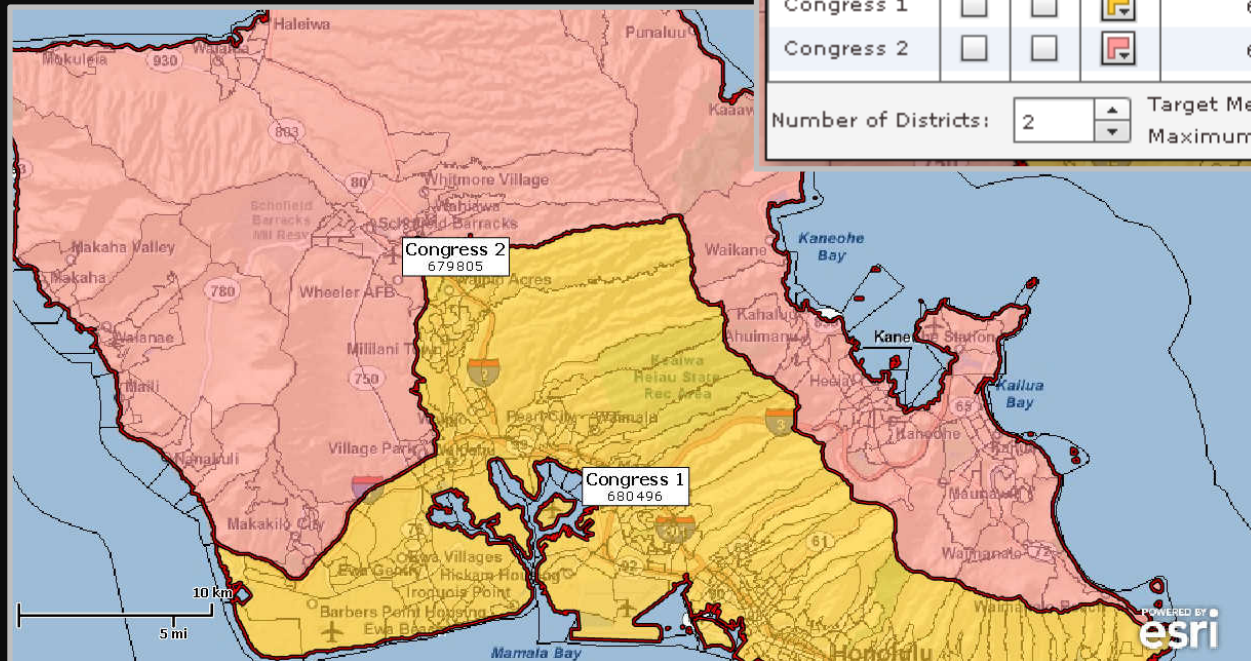
Proposed Plans – Congress H-1

HAWAII REAPPORTIONMENT COMMISSION		PROPOSED PLAN: CONGRESS H-1	
Plan:	Congress H-1	Plan Deviation:	0.10%
Districts:	two (Congress 1 - 2)	highest deviation:	0.05%
Target Population:	680,151 per district	lowest deviation:	-0.05%

Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		680,496	346	0.05
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		679,805	-345	-0.05

Number of Districts: Target Mean = 680,151
 Maximum Dev. (%): 1

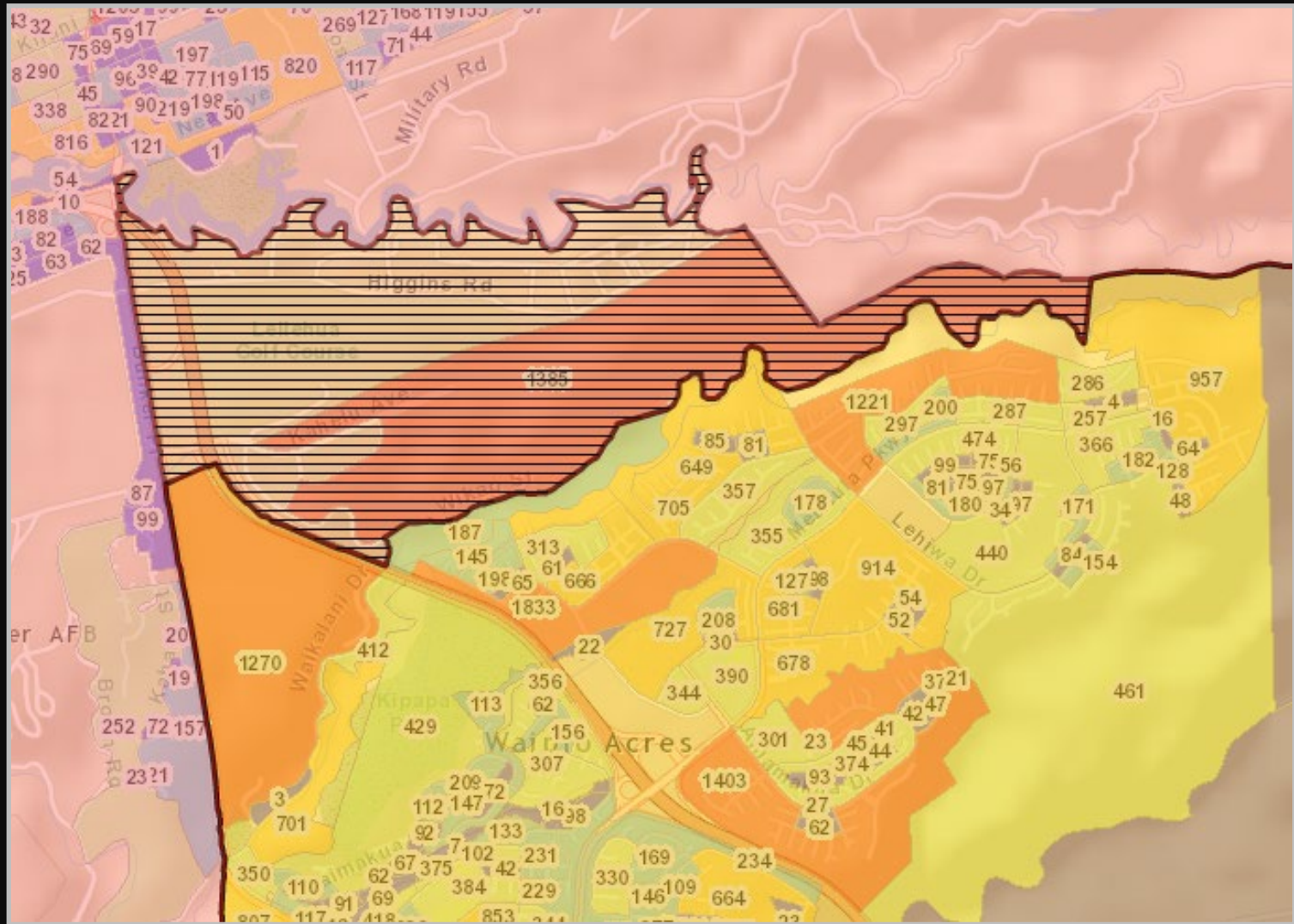
[Swap...](#) [Rename...](#)



Proposed Plans – Congress H-1



Proposed Plans – Congress H-1



Proposed Plans – Congress Wheeler

HAWAII REAPPORTIONMENT COMMISSION

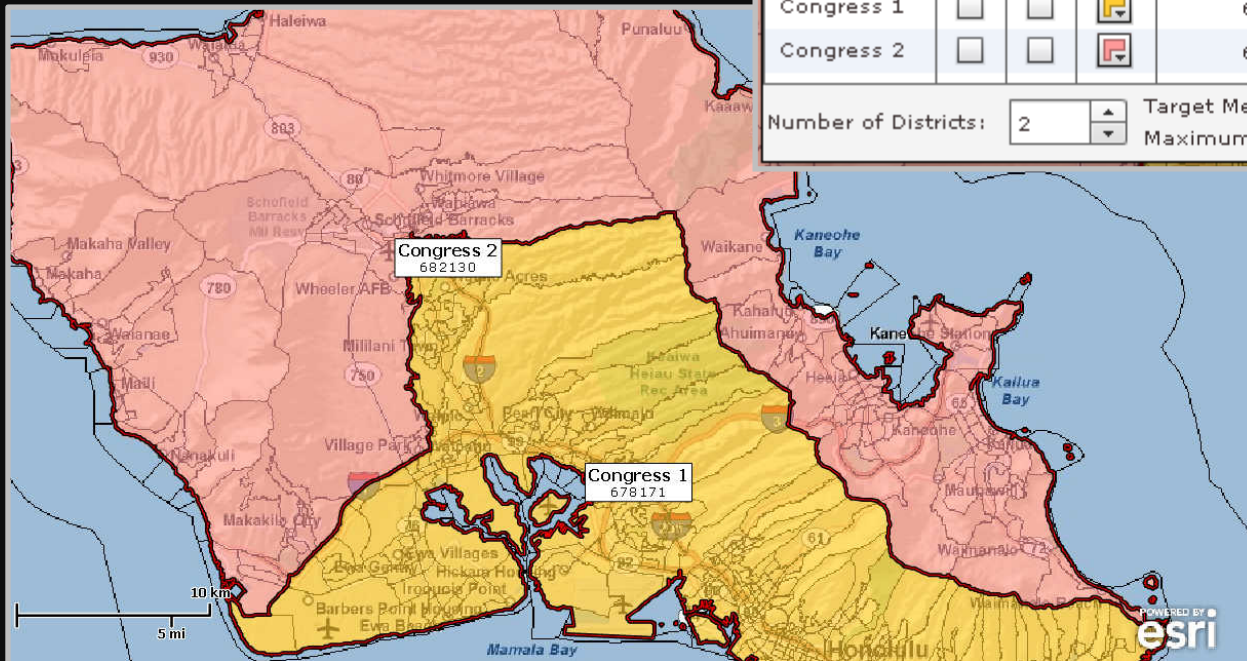
PROPOSED PLAN: CONGRESS WHEELER

Plan: Congress Wheeler
 Districts: two (Congress 1 - 2)
 Target Population: 680,151 per district

Plan Deviation: 0.58%
 highest deviation: 0.29%
 lowest deviation: -0.29%

District Statistics						
	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		678,171	-1,979	-0.29
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		682,130	1,980	0.29


Number of Districts: Target Mean = 680,151
 Maximum Dev. (%): 1



Proposed Plans – Congress Wheeler



Topics

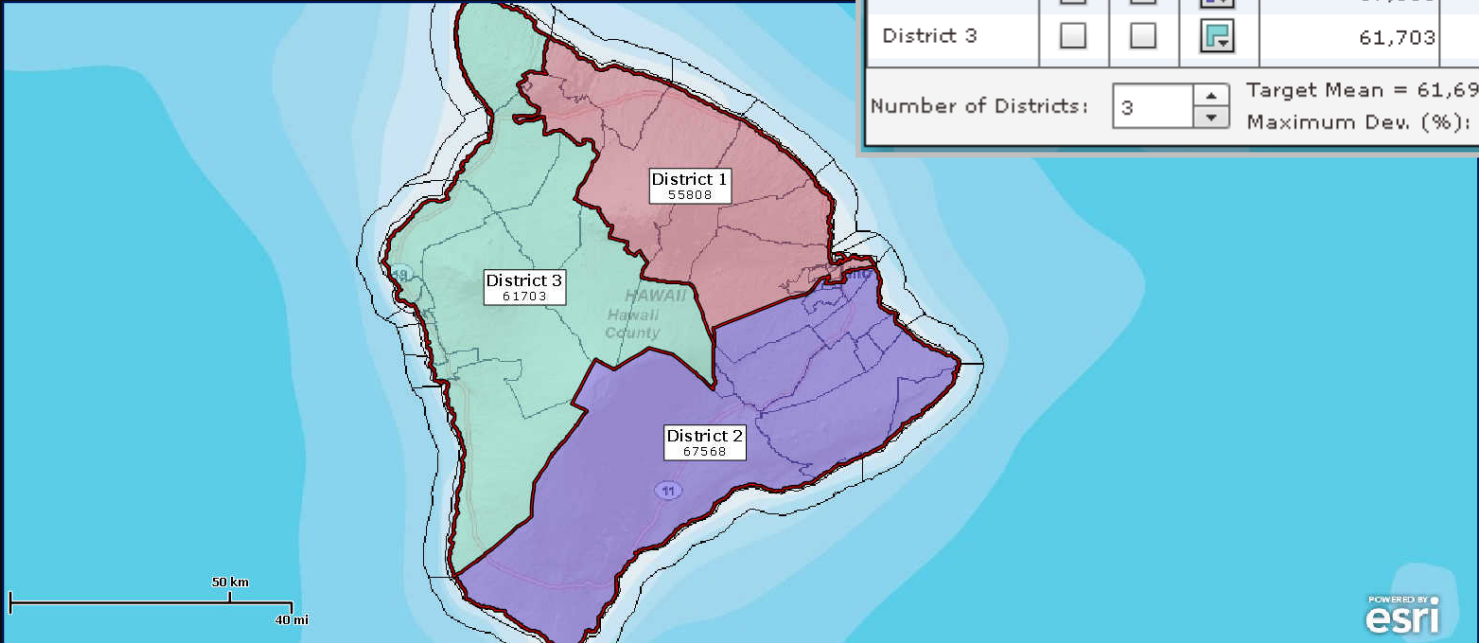
- State Population Base
- Reapportionment Among Basic Island Units
- Redistricting Within Basic Island Units
- **Proposed Plans: Findings and Recommendations of the Technical Committee**
 - Congress
 -  - **Senate**
 - House
- Commission Schedule – Public Hearings

Existing Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION		EXISTING SENATE HAWAII	
Plan:	Existing Senate Hawaii	Plan Deviation:	19.06%
Districts:	three (Senate 1 - 3)	highest deviation:	9.52%
Target Population:	61,693 per district	lowest deviation:	-9.54%

District Statistics						
	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
District 1	<input type="checkbox"/>	<input type="checkbox"/>		55,808	-5,885	-9.54
District 2	<input type="checkbox"/>	<input type="checkbox"/>		67,568	5,875	9.52
District 3	<input type="checkbox"/>	<input type="checkbox"/>		61,703	10	0.02

Number of Districts: Target Mean = 61,693
 Maximum Dev. (%): 10

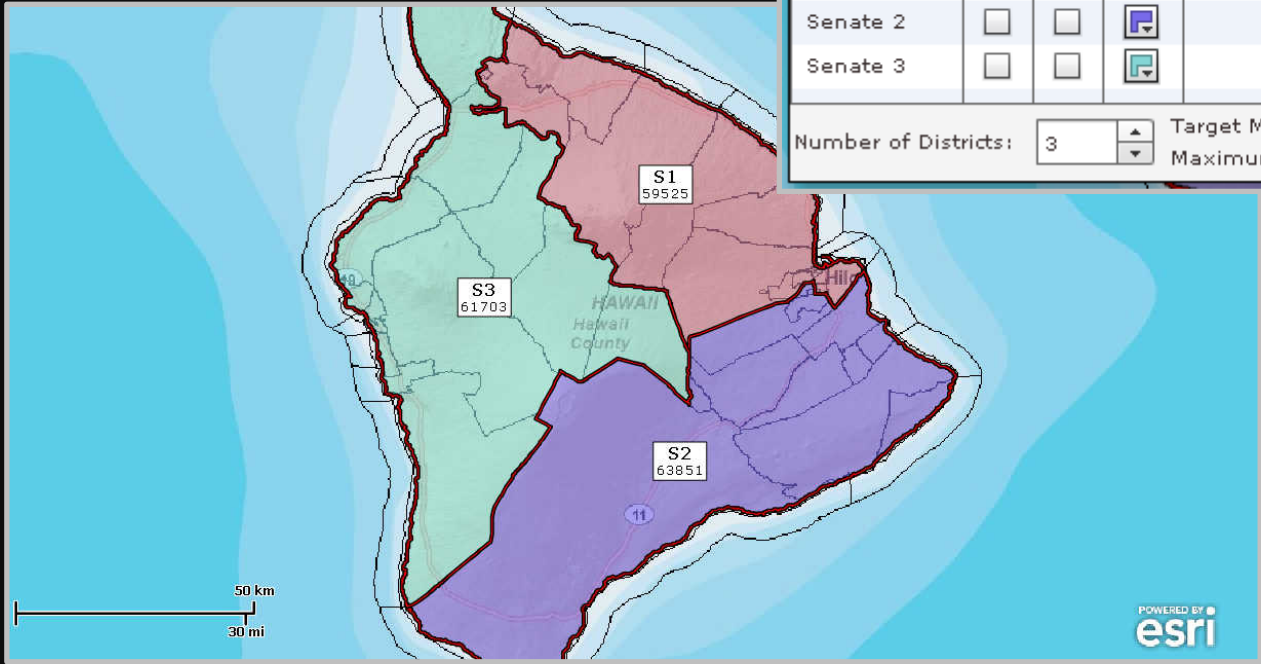


Proposed Plans – Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION		PROPOSED PLAN: SENATE HAWAII	
Plan:	Senate Hawaii	Plan Deviation:	7.01%
Districts:	three (Senate 1 - 3)	highest deviation:	3.50%
Target Population:	61,693 per district	lowest deviation:	-3.51%

District Statistics						
	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 1	<input type="checkbox"/>	<input type="checkbox"/>		59,525	-2,168	-3.51
Senate 2	<input type="checkbox"/>	<input type="checkbox"/>		63,851	2,158	3.50
Senate 3	<input type="checkbox"/>	<input type="checkbox"/>		61,703	10	0.02

Number of Districts: Target Mean = 61,693
 Maximum Dev. (%): 10



Proposed Plans – Senate Hawaii



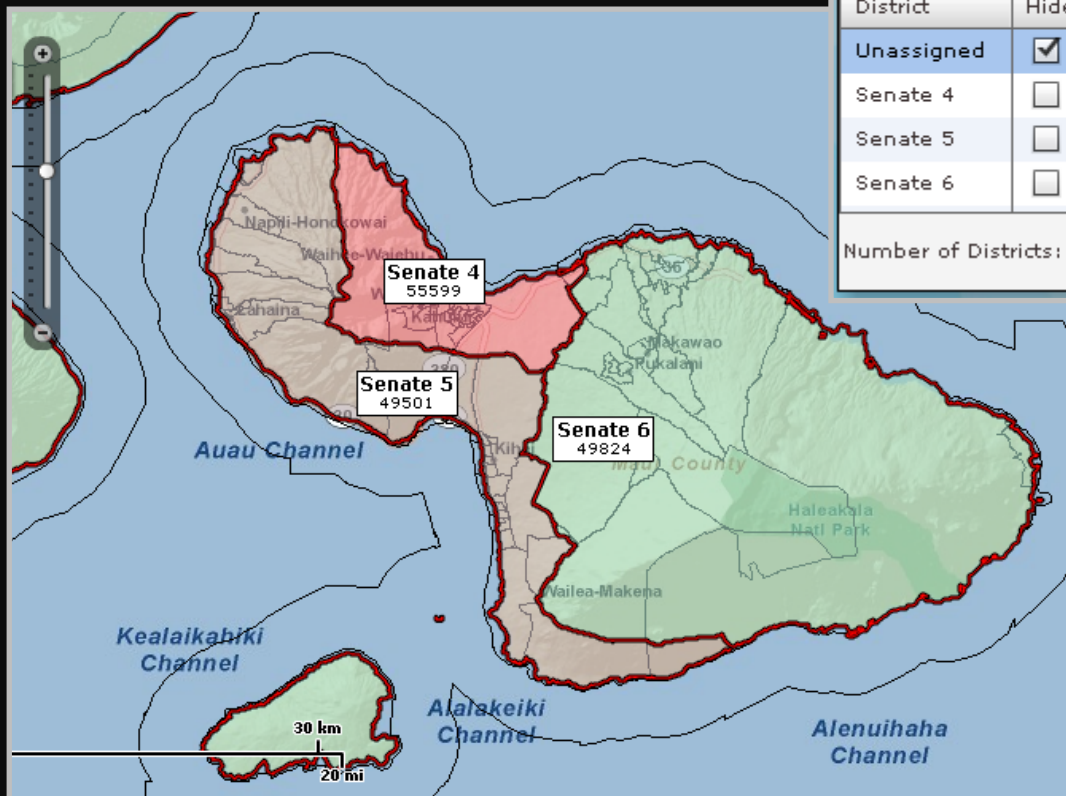
Existing Senate Maui

HAWAII REAPPORTIONMENT COMMISSION

Plan: Existing Senate Maui
 Districts: three (Senate 4 - 6)
 Target Population: 51,641 per district

EXISTING SENATE MAUI

Plan Deviation: **11.80%**
 highest deviation: 7.66%
 lowest deviation: -4.14%



District Statistics							
	Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		55,599	3,958	7.66	
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,501	-2,140	-4.14	
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		49,824	-1,817	-3.52	

Number of Districts: Target Mean = 51,641
 Maximum Dev. (%): 10

Proposed Plans – Senate Maui

HAWAII REAPPORTIONMENT COMMISSION

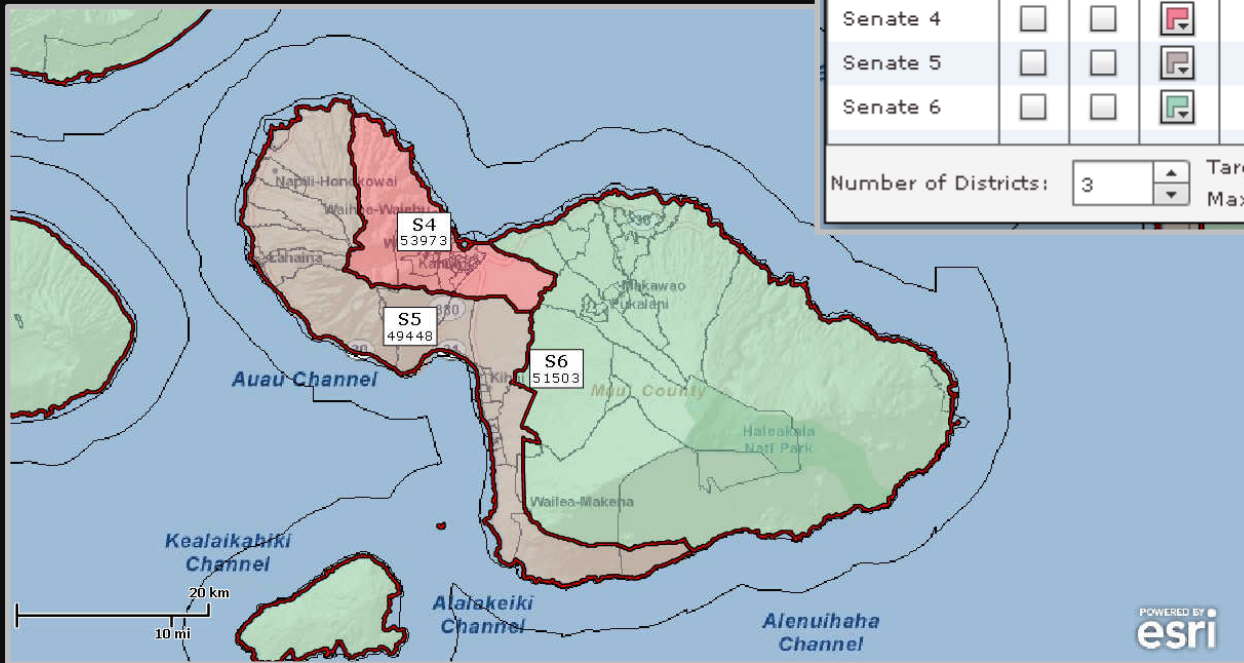
Plan: Senate Maui
 Districts: three (Senate 4 - 6)
 Target Population: 51,641 per district

PROPOSED PLAN: SENATE MAUI

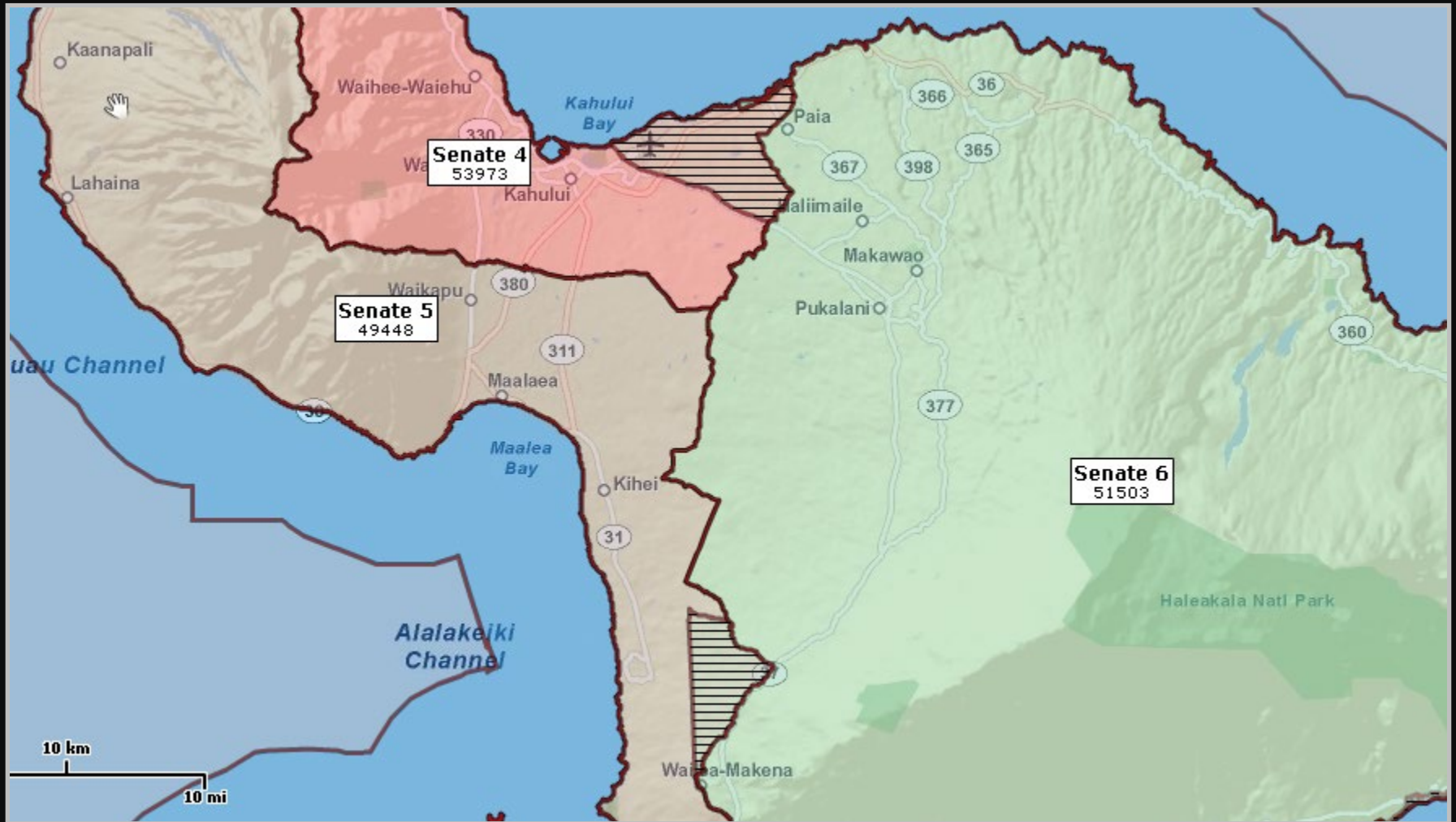
Plan Deviation: 8.77%
 highest deviation: 4.52%
 lowest deviation: -4.25%

District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		53,973	2,332	4.52
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,448	-2,193	-4.25
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		51,503	-138	-0.27

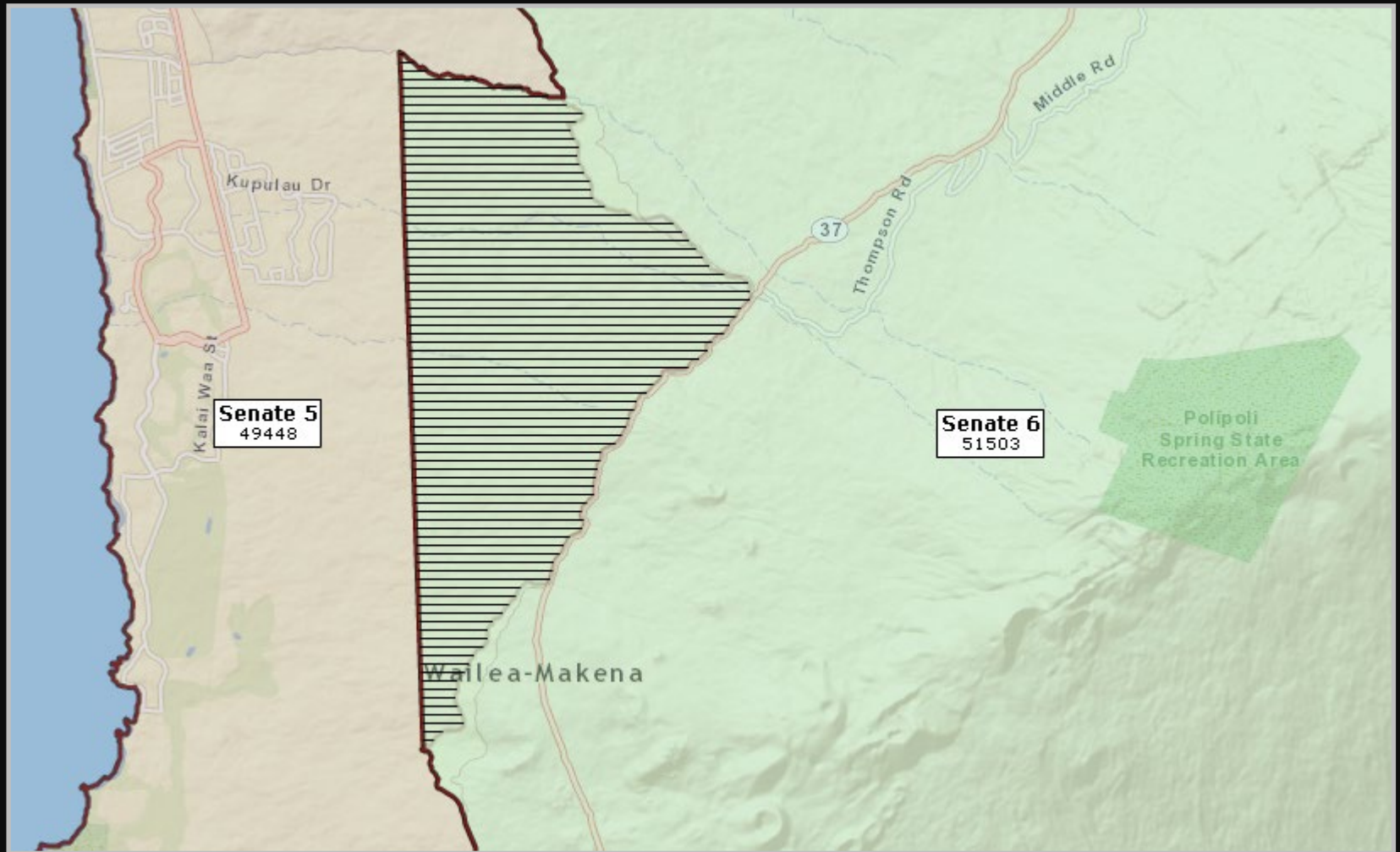
Number of Districts: Target Mean = 51,641
 Maximum Dev. (%): 10



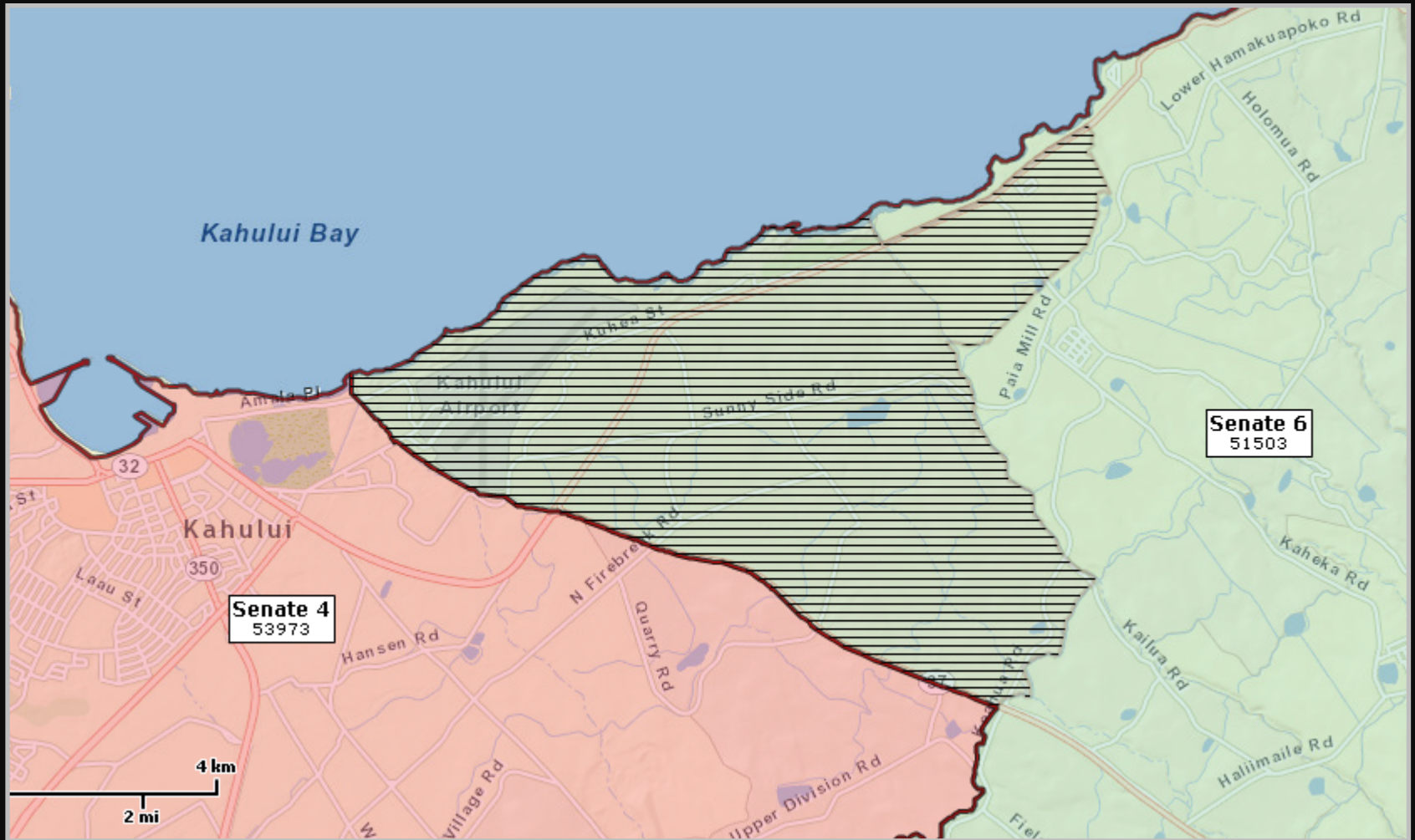
Proposed Plans – Senate Maui



Proposed Plans – Senate Maui



Proposed Plans – Senate Maui



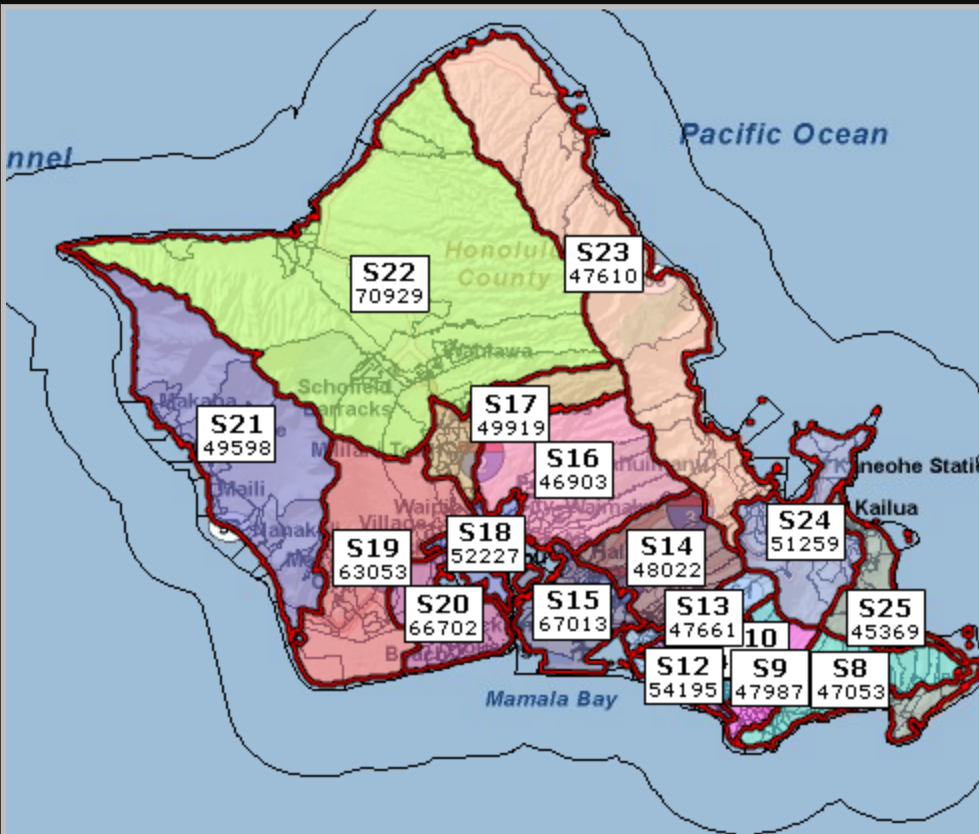
Existing Senate Honolulu

HAWAII REAPPORTIONMENT COMMISSION

EXISTING SENATE HONOLULU

Plan: Existing Senate Honolulu
 Districts: eighteen (Senate 8 - 25)
 Target Population: 52,956 per district

Plan Deviation: 48.27%
 highest deviation: 33.94%
 lowest deviation: -14.33%



District Statistics							
	Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		47,053	-5,903	-11.15	
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		47,987	-4,969	-9.38	
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		47,726	-5,230	-9.88	
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		49,981	-2,975	-5.62	
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		54,195	1,239	2.34	
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		47,661	-5,295	-10.00	
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		48,022	-4,934	-9.32	
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		67,013	14,057	26.54	
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		46,903	-6,053	-11.43	
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		49,919	-3,037	-5.73	
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		52,227	-729	-1.38	
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		63,053	10,097	19.07	
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		66,702	13,746	25.96	
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		49,598	-3,358	-6.34	
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		70,929	17,973	33.94	
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		47,610	-5,346	-10.10	
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		51,259	-1,697	-3.20	
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		45,369	-7,587	-14.33	

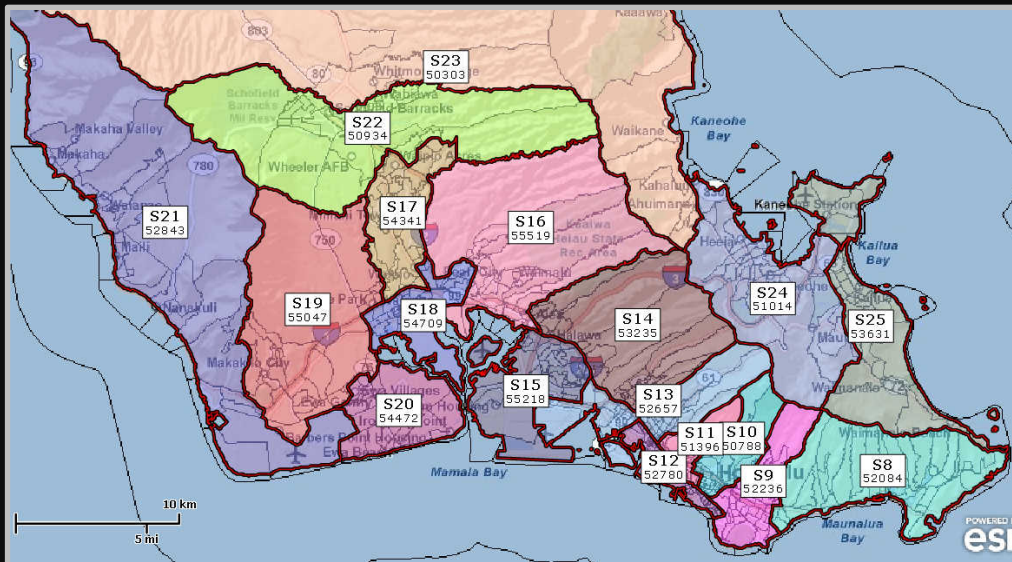
Proposed Plans – Senate Honolulu

HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: SENATE HONOLULU

Plan: Senate Honolulu
 Districts: eighteen (Senate 8 - 25)
 Target Population: 52,956 per district

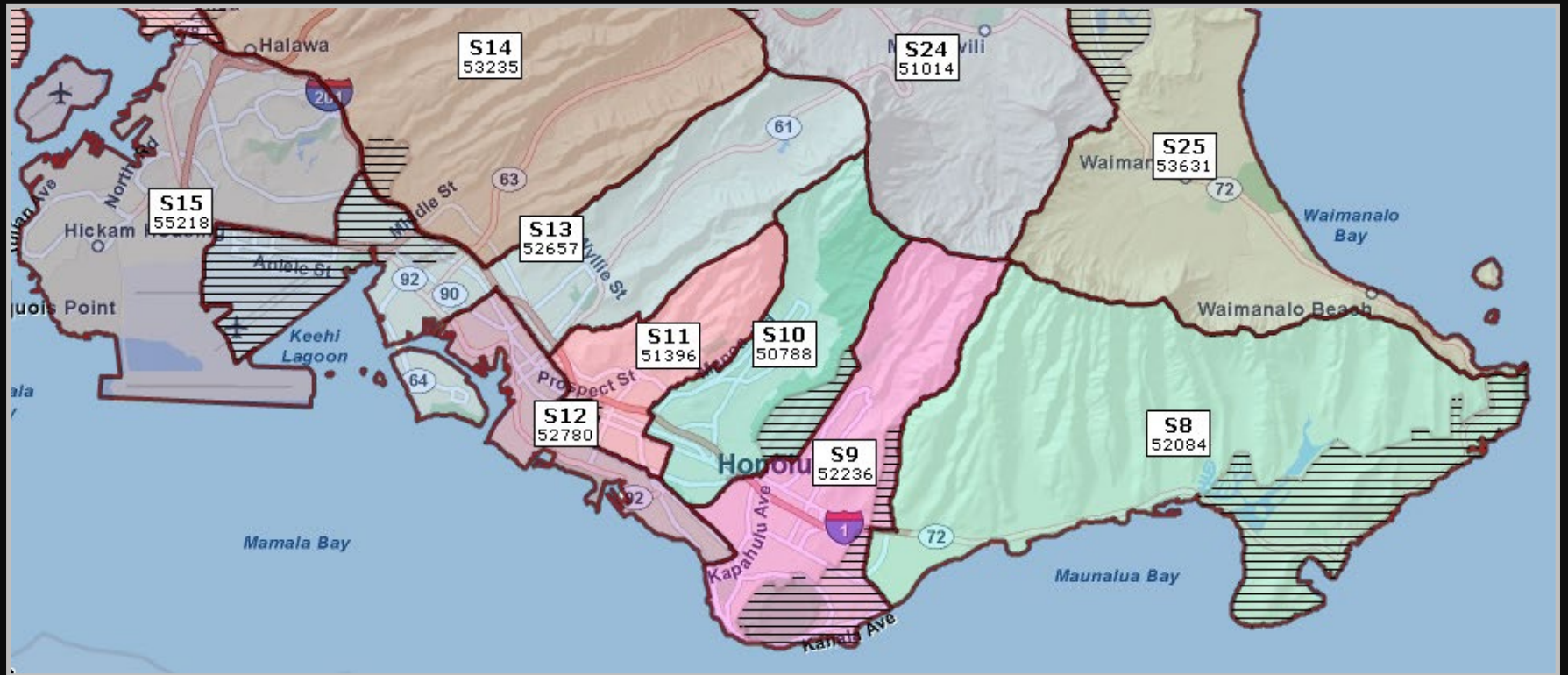
Plan Deviation: **9.85%**
 highest deviation: **4.84%**
 lowest deviation: **-5.01%**



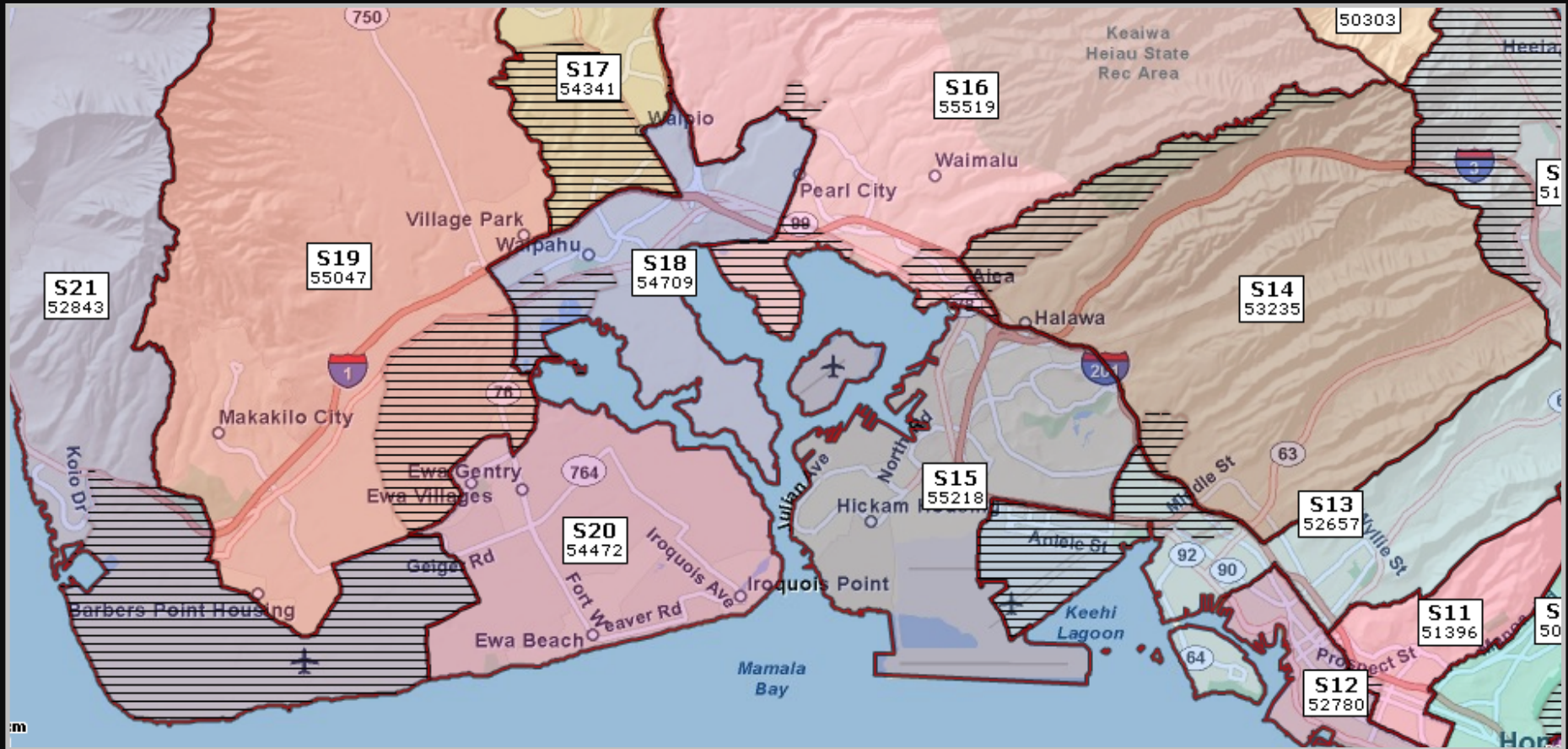
District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		52,084	-872	-1.65
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		52,236	-720	-1.36
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		50,788	-2,168	-4.09
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		51,396	-1,560	-2.95
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		52,780	-176	-0.33
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		52,657	-299	-0.56
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		53,235	279	0.53
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		55,218	2,262	4.27
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		55,519	2,563	4.84
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		54,341	1,385	2.62
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		54,709	1,753	3.31
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		55,047	2,091	3.95
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		54,472	1,516	2.86
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		52,843	-113	-0.21
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		50,934	-2,022	-3.82
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		50,303	-2,653	-5.01
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		51,014	-1,942	-3.67
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		53,631	675	1.27

Number of Districts: 18 Target Mean = 52,956
 Maximum Dev. (%): 10 Swap... Rename...

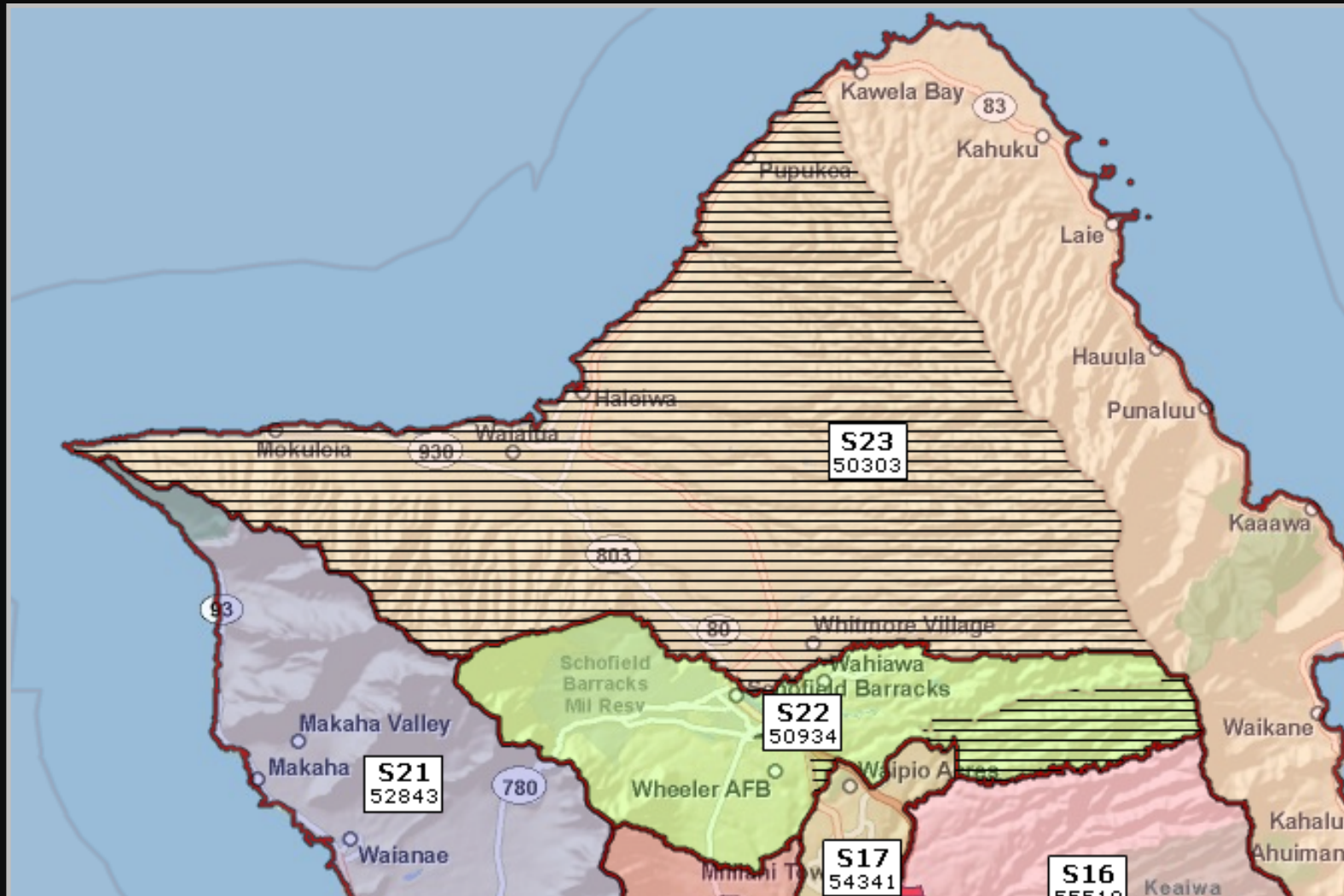
Proposed Plans – Senate Honolulu



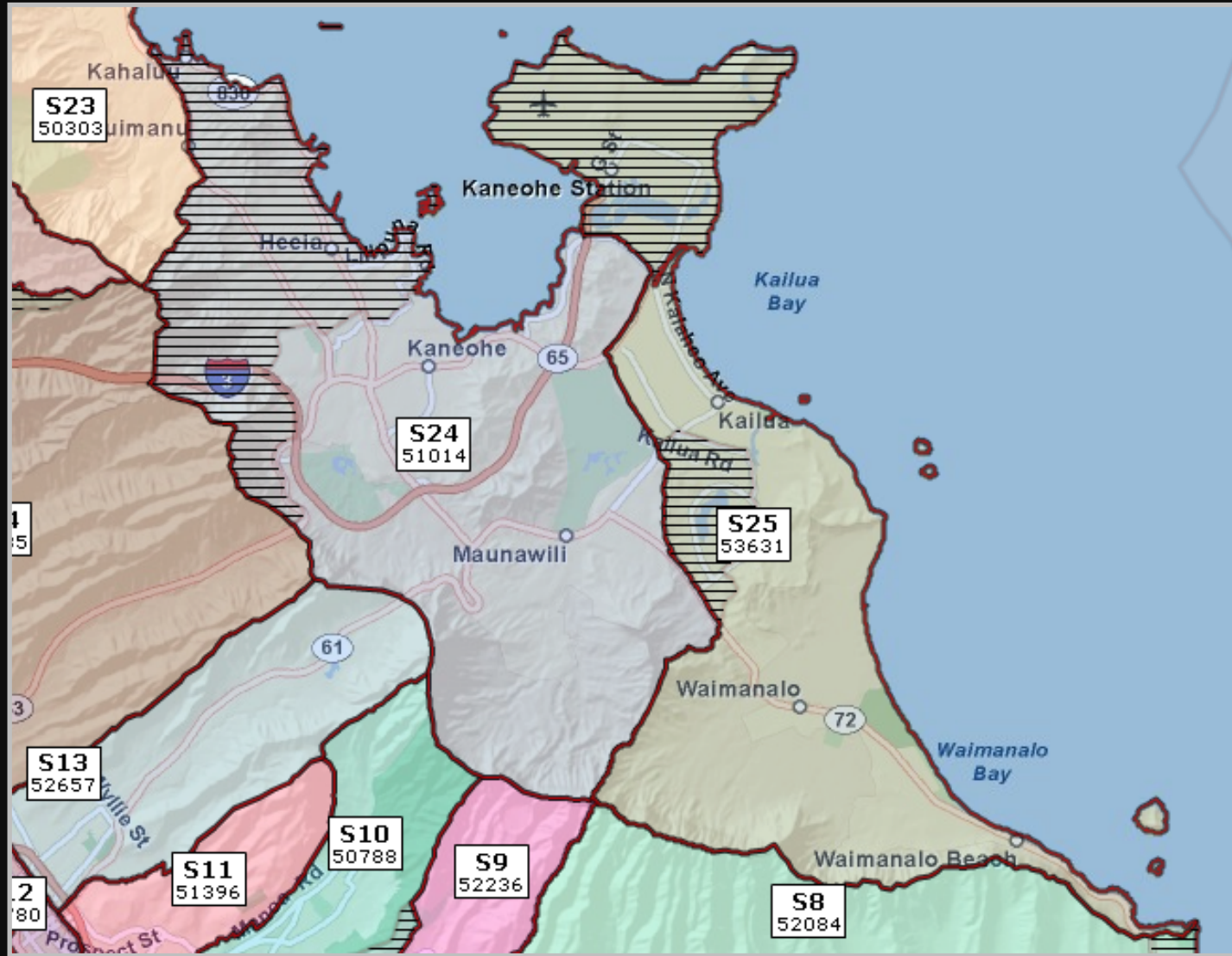
Proposed Plans – Senate Honolulu




Proposed Plans – Senate Honolulu



Proposed Plans – Senate Honolulu



Topics

- State Population Base
- Reapportionment Among Basic Island Units
- Redistricting Within Basic Island Units
- **Proposed Plans: Findings and Recommendations of the Technical Committee**
 - Congress
 - Senate
 -  - **House**
- Commission Schedule – Public Hearings

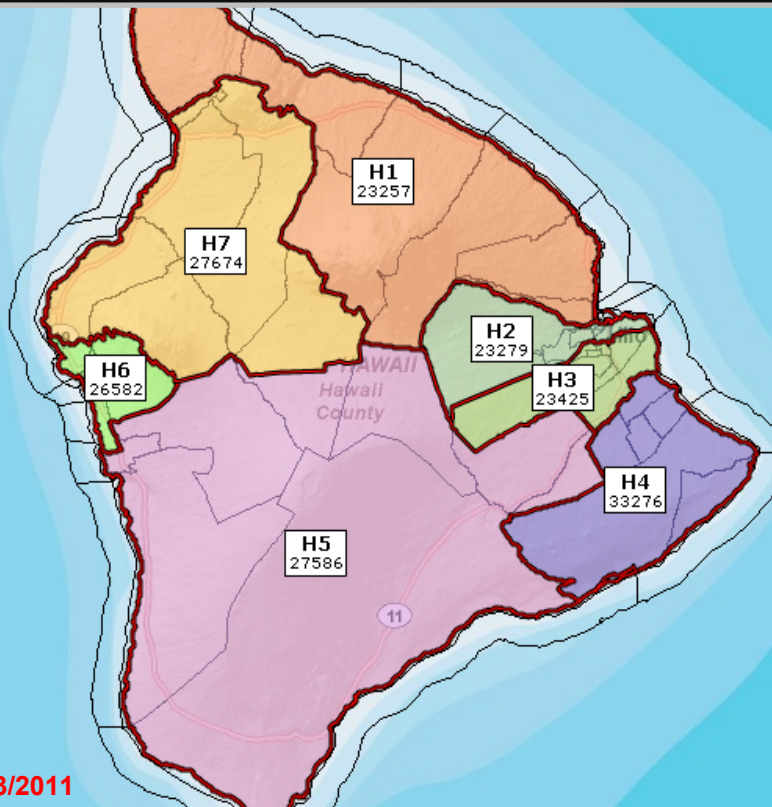
Existing House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

Plan: Existing House Hawaii
 Districts: seven (House 1 - 7)
 Target Population: 26,440 per district

EXISTING HOUSE HAWAII

Plan Deviation: **37.89%**
 highest deviation: 25.85%
 lowest deviation: -12.04%



District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 1	<input type="checkbox"/>	<input type="checkbox"/>		23,257	-3,183	-12.04
House 2	<input type="checkbox"/>	<input type="checkbox"/>		23,279	-3,161	-11.96
House 3	<input type="checkbox"/>	<input type="checkbox"/>		23,425	-3,015	-11.40
House 4	<input type="checkbox"/>	<input type="checkbox"/>		33,276	6,836	25.85
House 5	<input type="checkbox"/>	<input type="checkbox"/>		27,586	1,146	4.33
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,582	142	0.54
House 7	<input type="checkbox"/>	<input type="checkbox"/>		27,674	1,234	4.67

Number of Districts: Target Mean = 26,440
 Maximum Dev. (%): 10

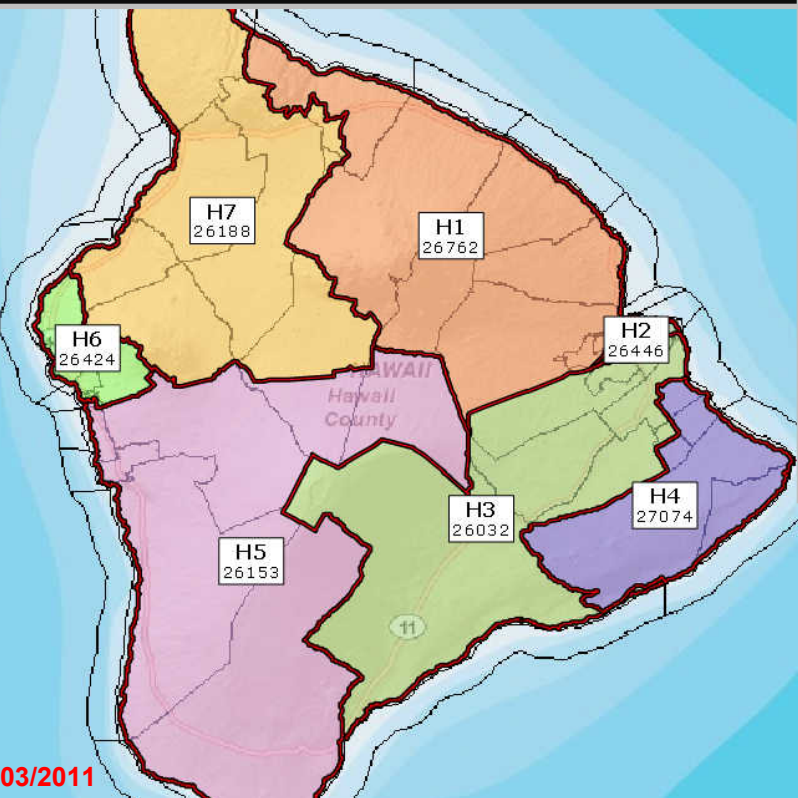
Proposed Plans – House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

Plan: House Hawaii
 Districts: seven (House 1 - 7)
 Target Population: 26,440 per district

PROPOSED PLAN: HOUSE HAWAII

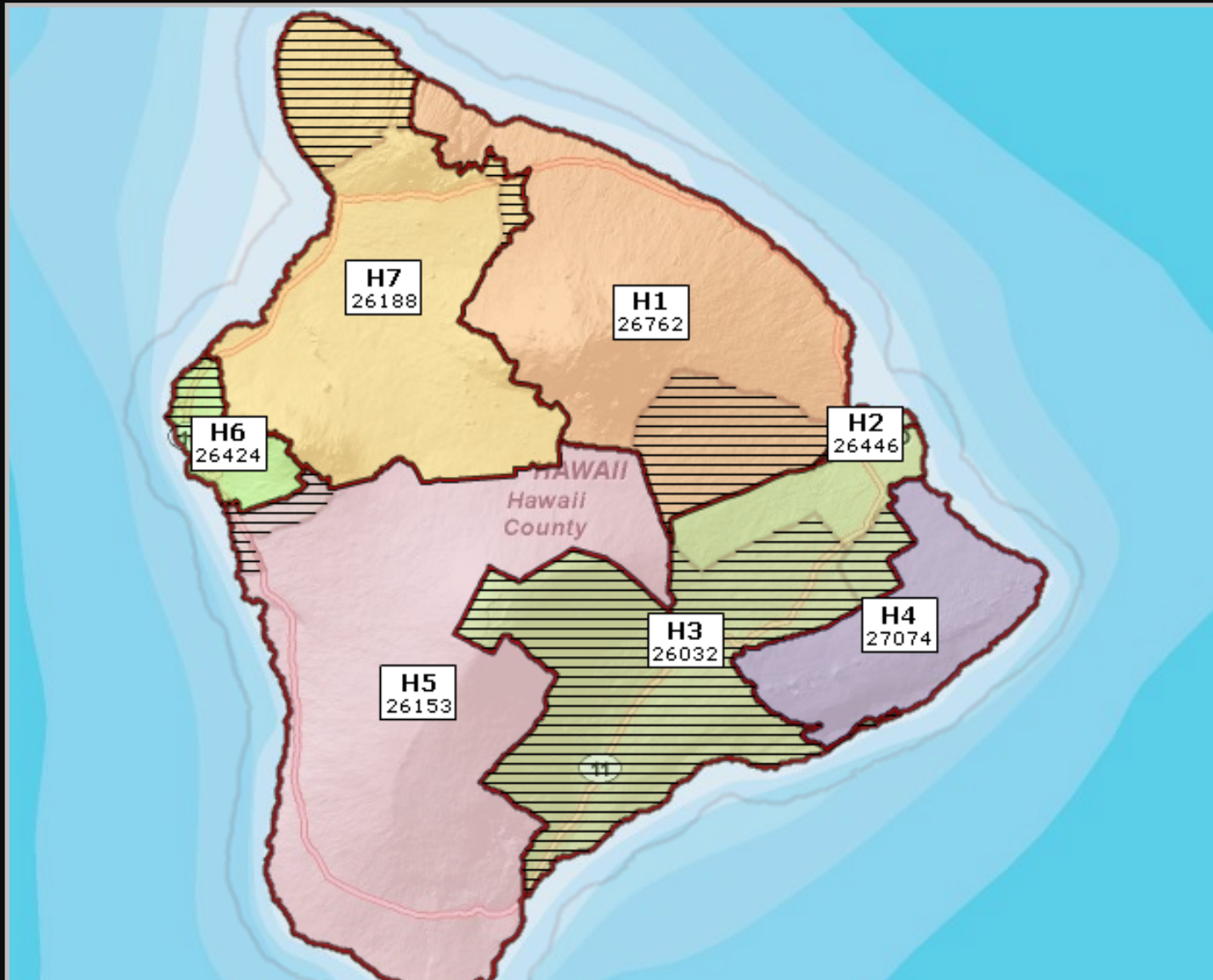
Plan Deviation: **3.94%**
 highest deviation: 2.40%
 lowest deviation: -1.54%



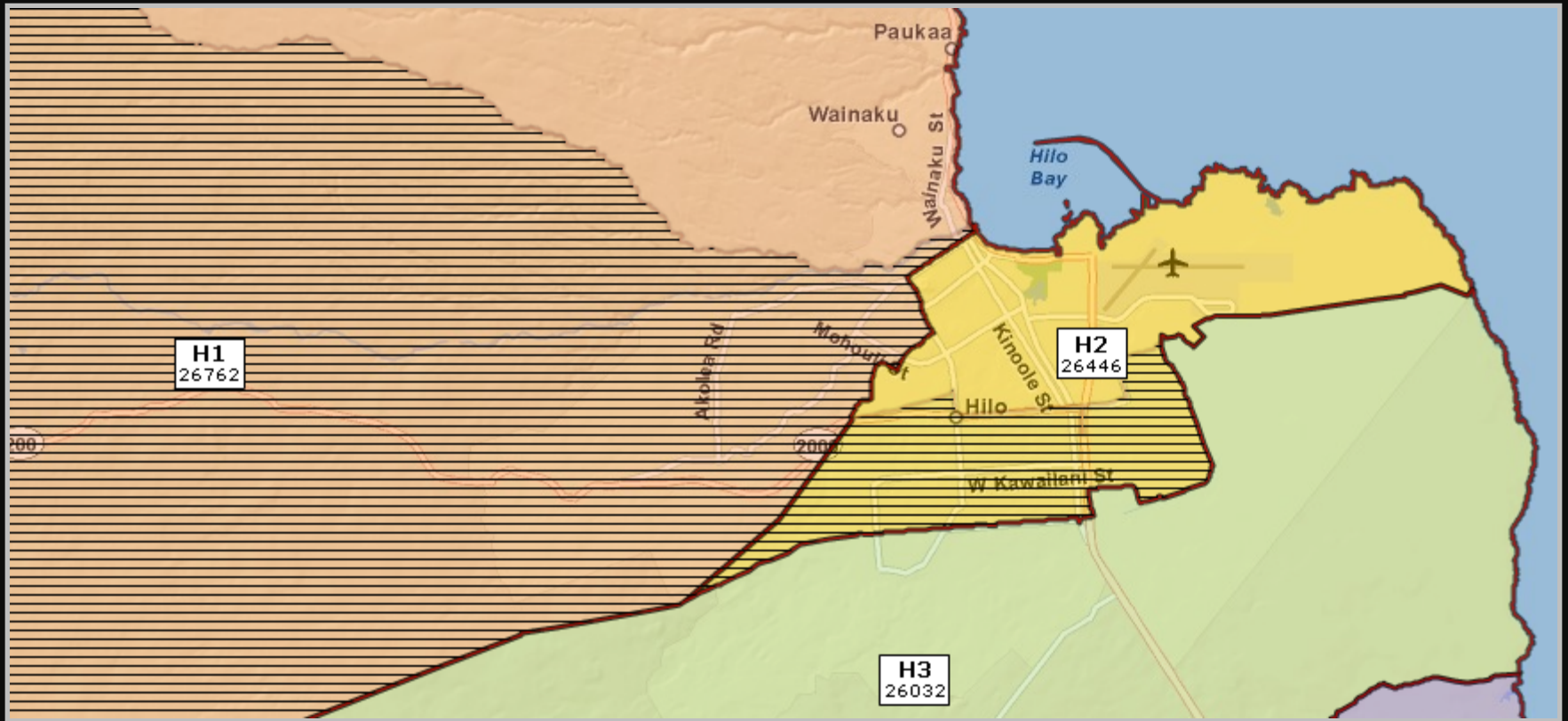
District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 1	<input type="checkbox"/>	<input type="checkbox"/>		26,762	322	1.22
House 2	<input type="checkbox"/>	<input type="checkbox"/>		26,446	6	0.02
House 3	<input type="checkbox"/>	<input type="checkbox"/>		26,032	-408	-1.54
House 4	<input type="checkbox"/>	<input type="checkbox"/>		27,074	634	2.40
House 5	<input type="checkbox"/>	<input type="checkbox"/>		26,153	-287	-1.09
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,424	-16	-0.06
House 7	<input type="checkbox"/>	<input type="checkbox"/>		26,188	-252	-0.95

Number of Districts: Target Mean = 26,440
 Maximum Dev. (%): 10

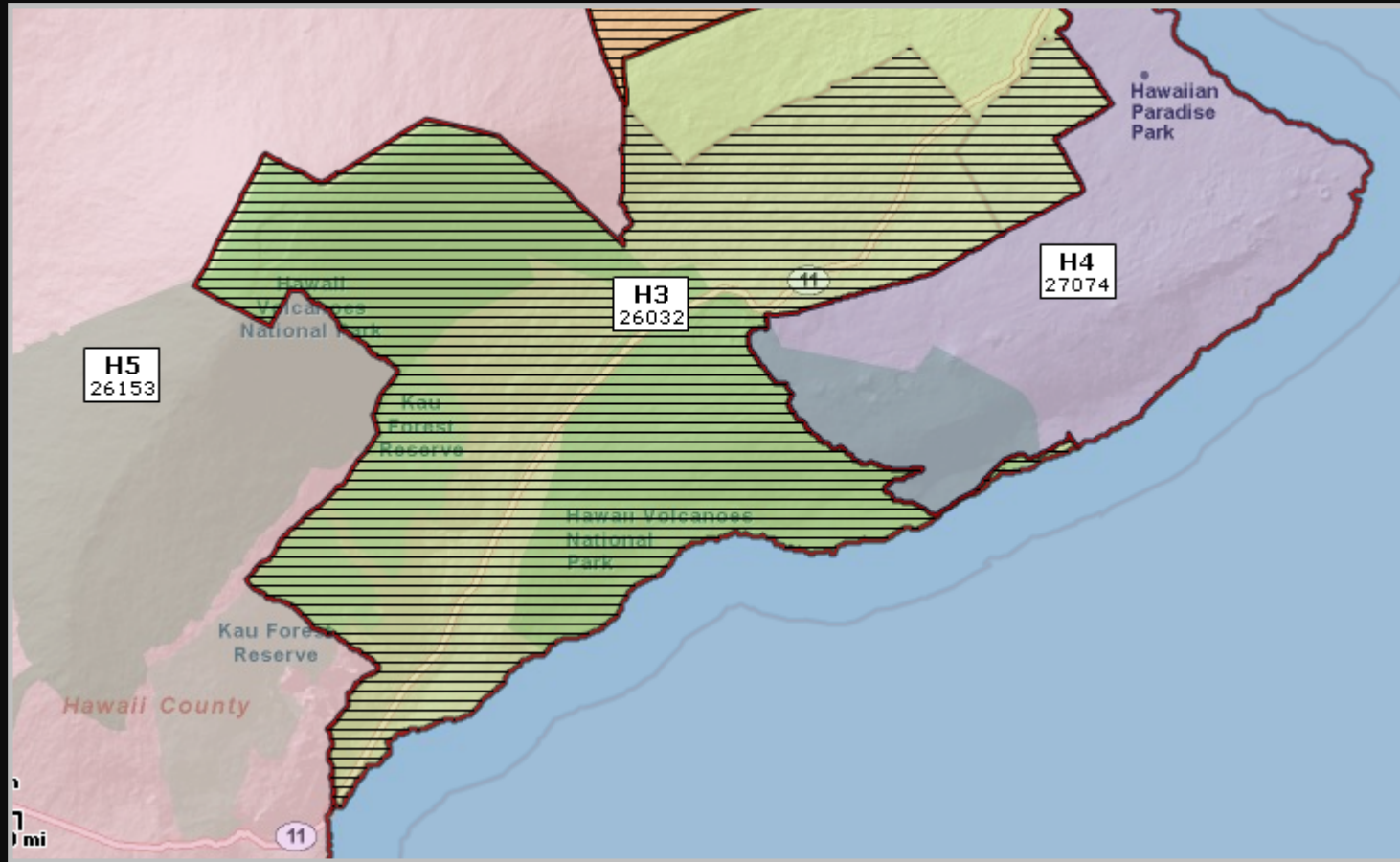
Proposed Plans – House Hawaii



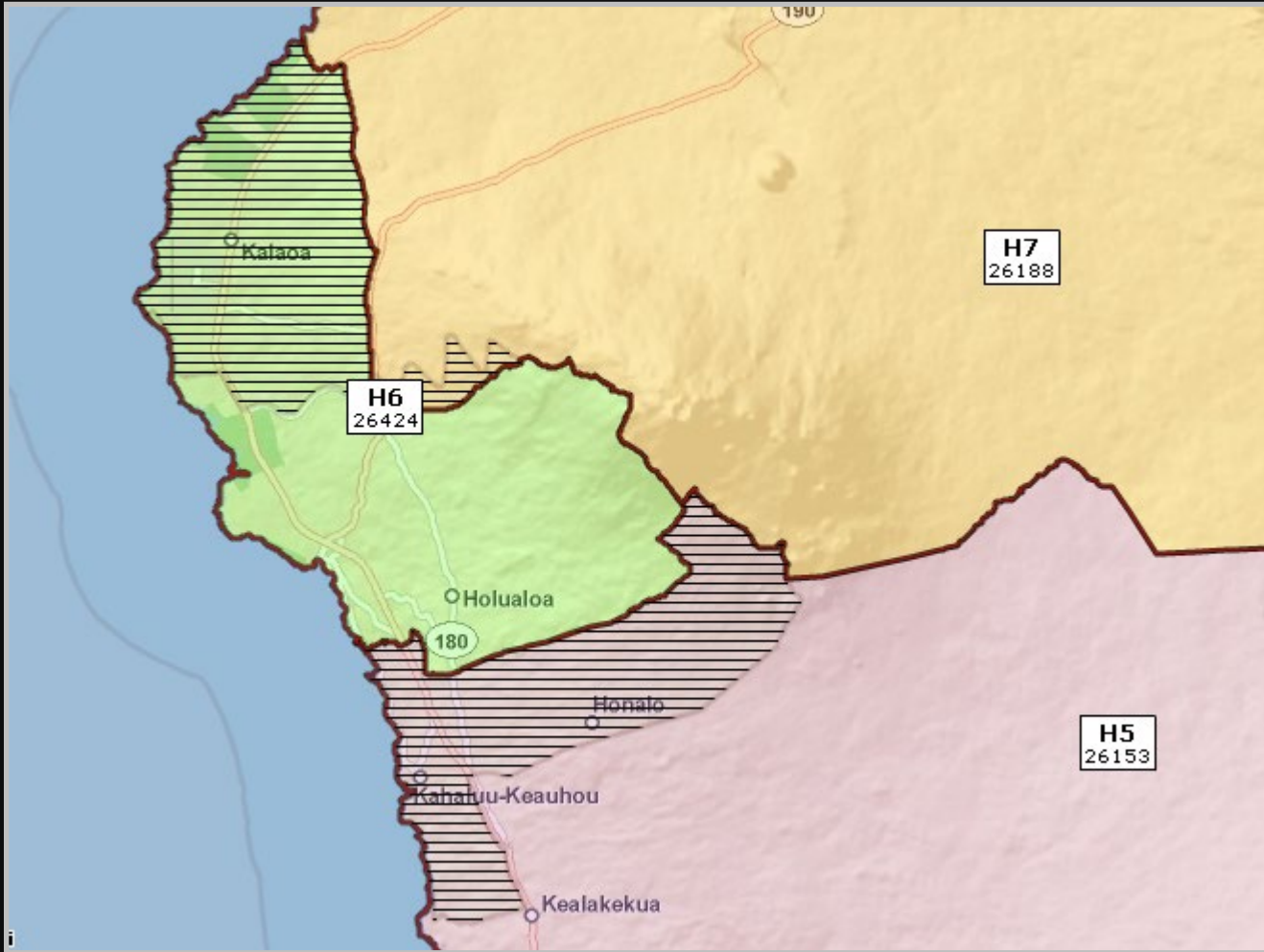
Proposed Plans – House Hawaii



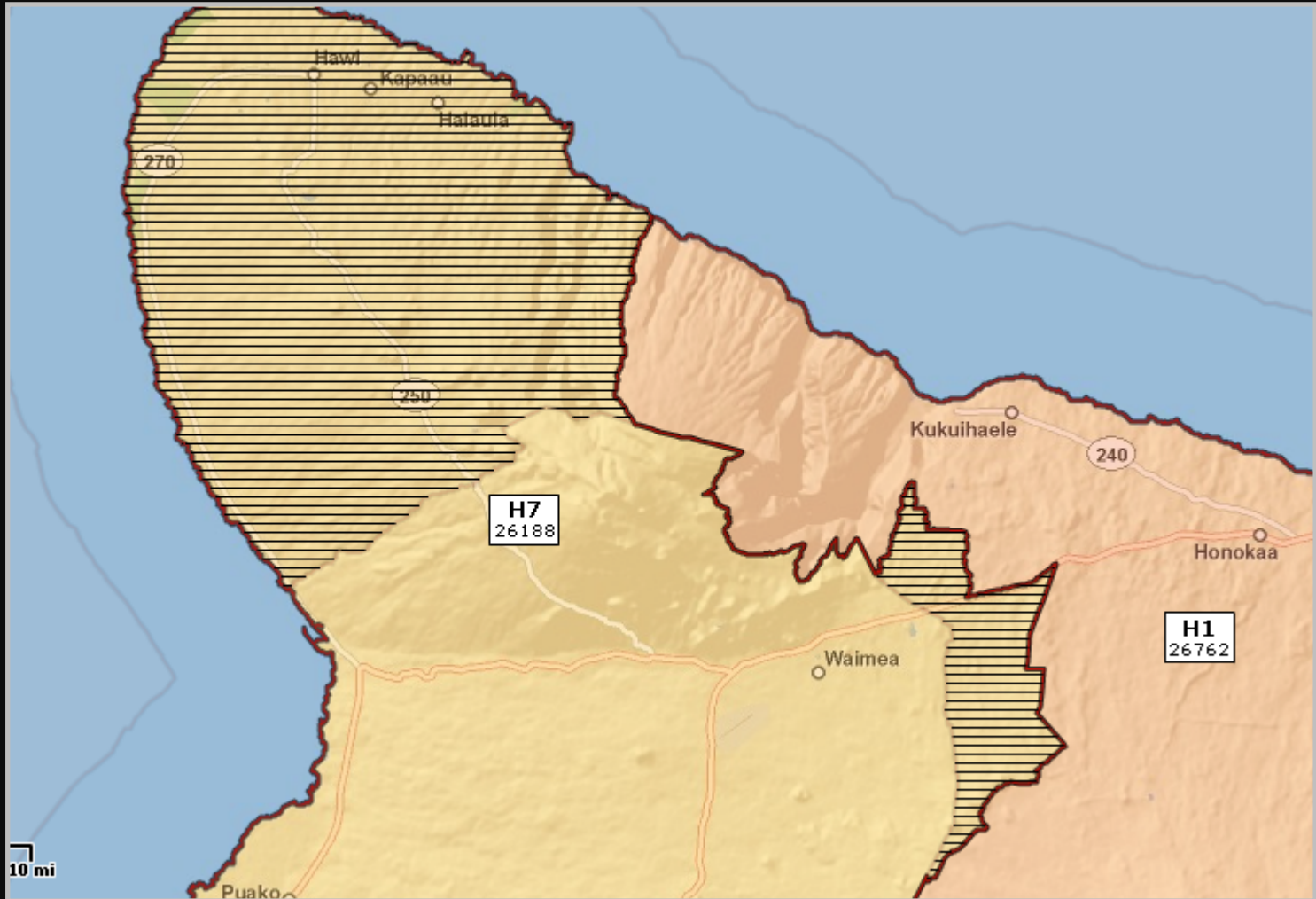
Proposed Plans – House Hawaii



Proposed Plans – House Hawaii

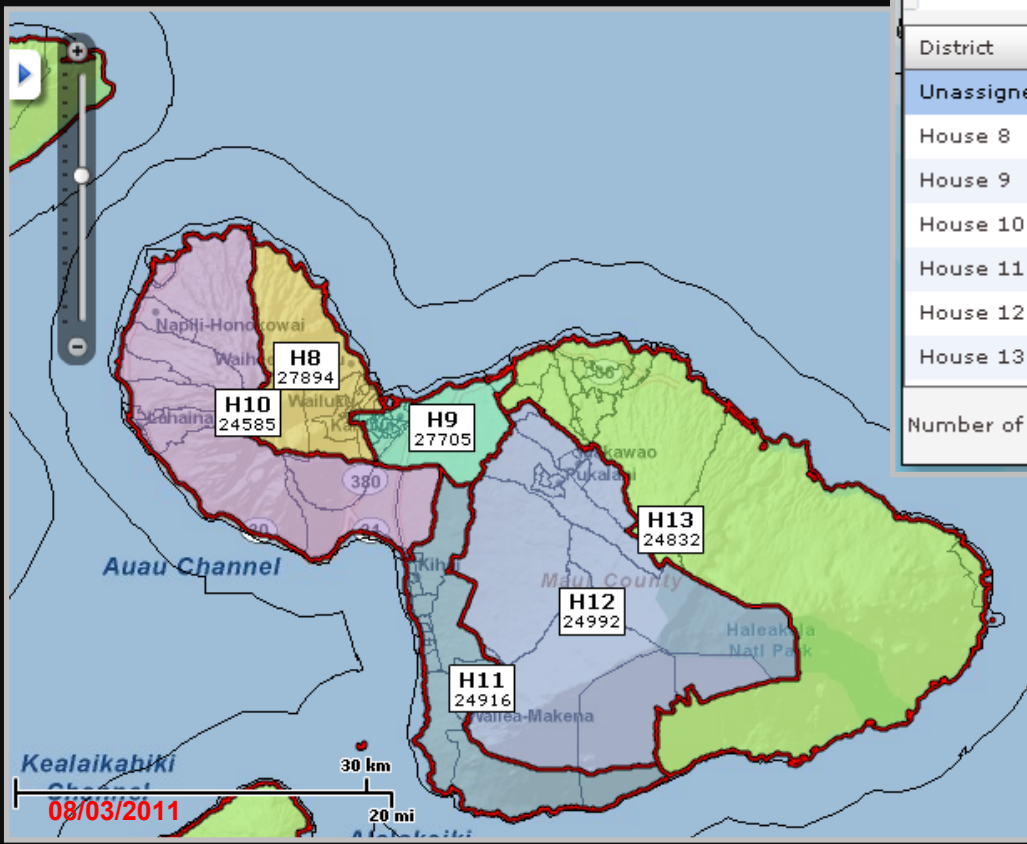


Proposed Plans – House Hawaii



Existing House Maui

HAWAII REAPPORTIONMENT COMMISSION		EXISTING HOUSE MAUI	
Plan:	Existing House Maui	Plan Deviation:	12.82%
Districts:	six (House 8 - 13)	highest deviation:	8.03%
Target Population:	25,821 per district	lowest deviation:	-4.79%

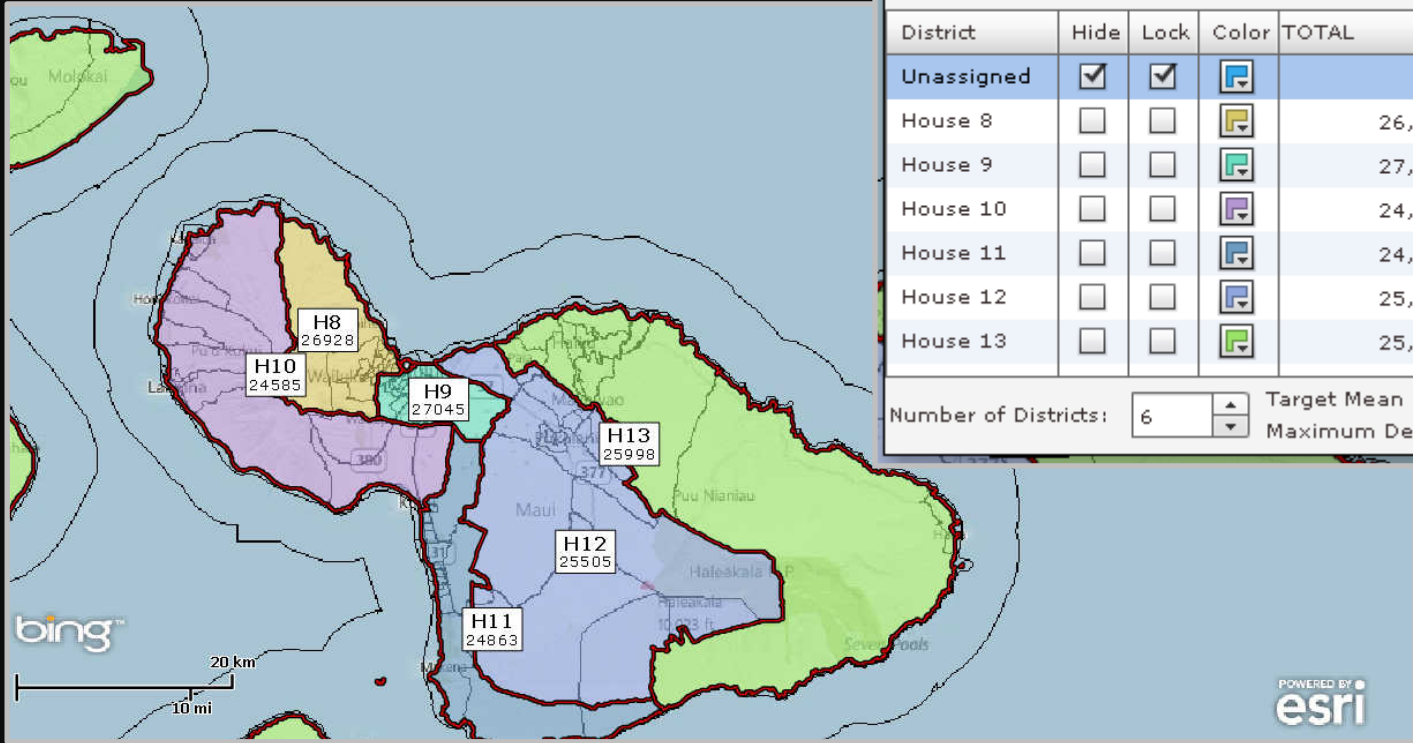


District Statistics							
Current	Proposed	Assigned	Comparison				
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 8	<input type="checkbox"/>	<input type="checkbox"/>		27,894	2,073	8.03	
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,705	1,884	7.30	
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,236	-4.79	
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,916	-905	-3.50	
House 12	<input type="checkbox"/>	<input type="checkbox"/>		24,992	-829	-3.21	
House 13	<input type="checkbox"/>	<input type="checkbox"/>		24,832	-989	-3.83	

Number of Districts: 6 Target Mean = 25,821
 Maximum Dev. (%): 10 [Swap...](#) [Rename...](#)

Proposed Plans – House Maui

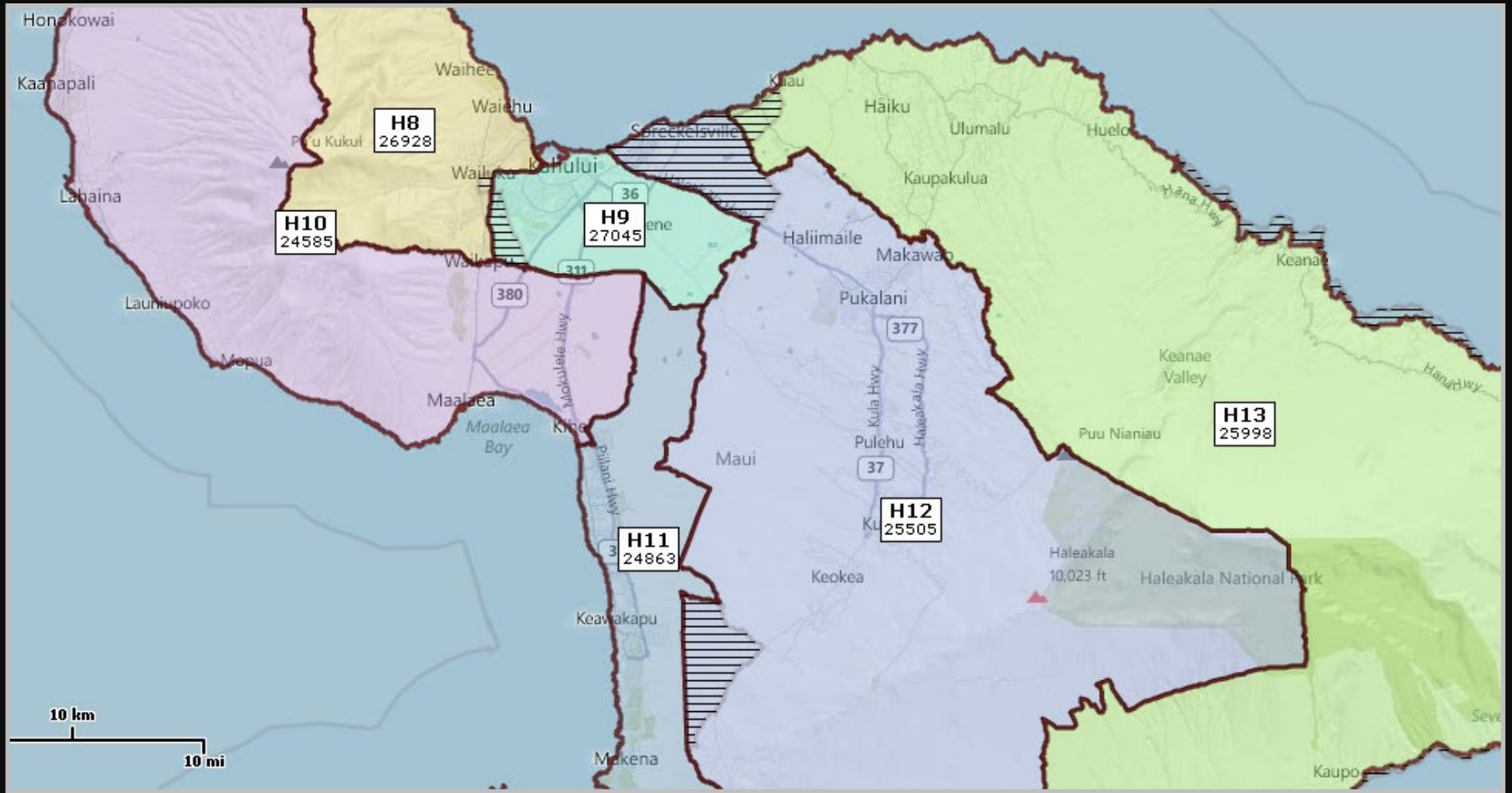
HAWAII REAPPORTIONMENT COMMISSION		PROPOSED PLAN: HOUSE MAUI	
Plan:	House Maui	Plan Deviation:	9.53%
Districts:	six (House 8 - 13)	highest deviation:	4.74%
Target Population:	25,821 per district	lowest deviation:	-4.79%



District Statistics							
Current	Proposed	Assigned	Comparison				
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 8	<input type="checkbox"/>	<input type="checkbox"/>		26,928	1,107	4.29	
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,045	1,224	4.74	
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,236	-4.79	
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,863	-958	-3.71	
House 12	<input type="checkbox"/>	<input type="checkbox"/>		25,505	-316	-1.22	
House 13	<input type="checkbox"/>	<input type="checkbox"/>		25,998	177	0.69	

Number of Districts: 6 Target Mean = 25,821
 Maximum Dev. (%): 10 [Swap...](#) [Rename...](#)

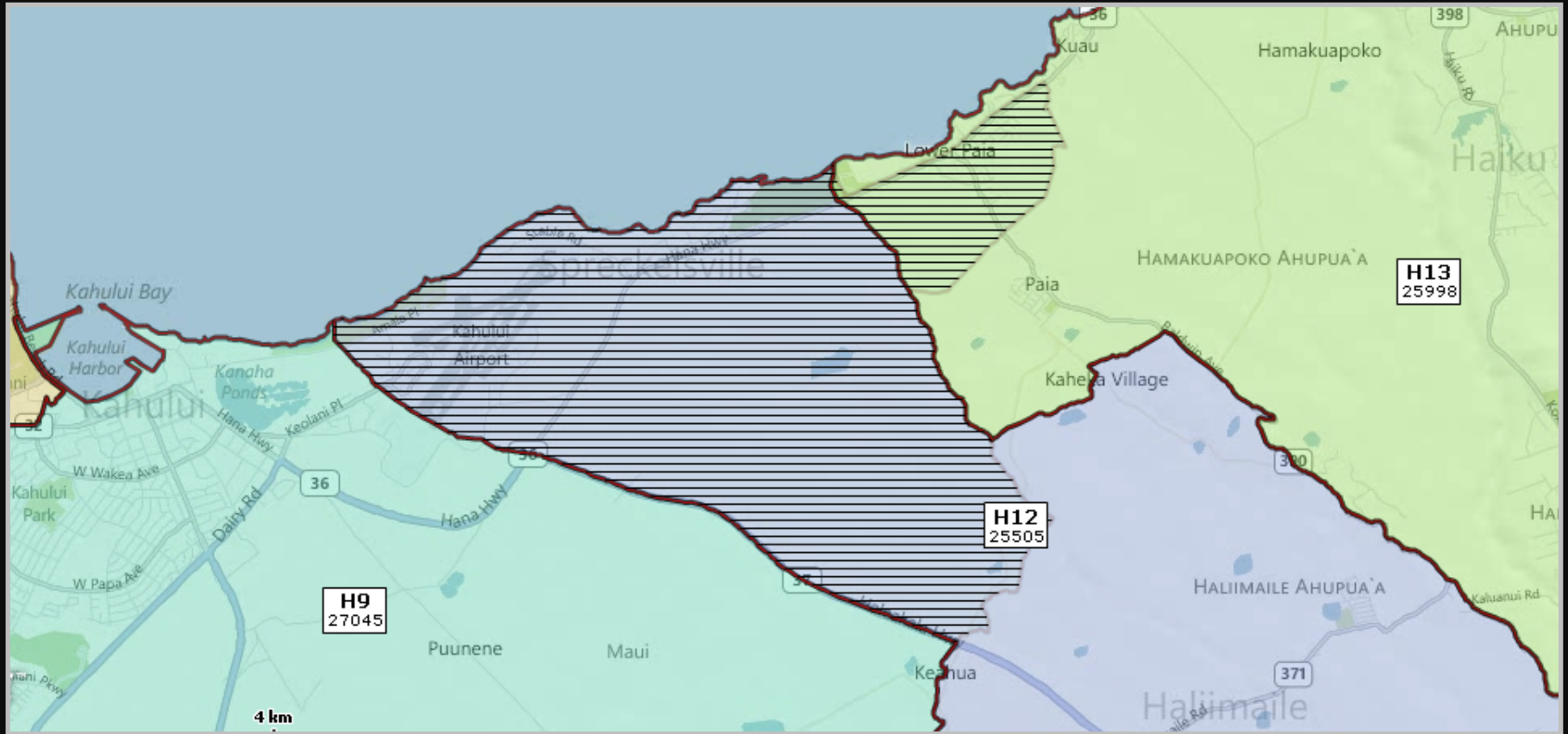
Proposed Plans – House Maui



Proposed Plans – House Maui



Proposed Plans – House Maui



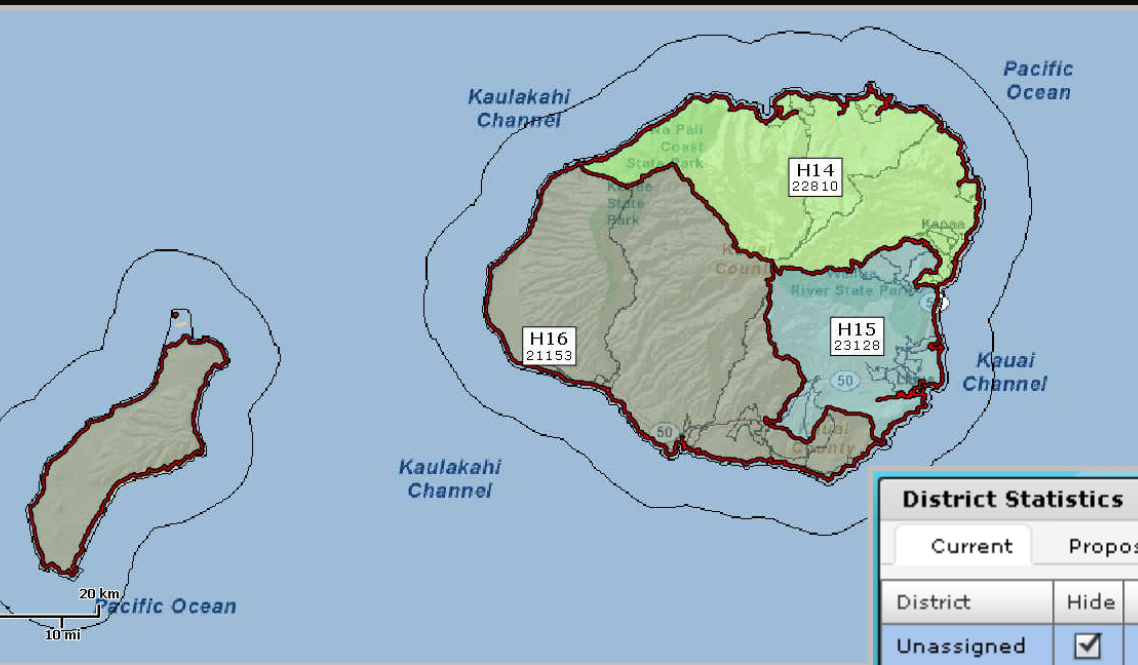
Existing House Kauai

HAWAII REAPPORTIONMENT COMMISSION

Plan: Existing House Kauai
 Districts: three (House 14 - 16)
 Target Population: 22,364 per district

EXISTING HOUSE KAUAI

Plan Deviation: 8.83%
 highest deviation: 3.42%
 lowest deviation: -5.41%



District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,810	446	1.99
House 15	<input type="checkbox"/>	<input type="checkbox"/>		23,128	764	3.42
House 16	<input type="checkbox"/>	<input type="checkbox"/>		21,153	-1,211	-5.41

Number of Districts: Target Mean = 22,364
 Maximum Dev. (%): 10

Proposed Plans – House Kauai

HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: HOUSE KAUAI

Plan: House Kauai
 Districts: three (House 14 - 16)
 Target Population: 22,364 per district

Plan Deviation: **8.83%**
 highest deviation: 3.42%
 lowest deviation: -5.41%



	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,810	446	1.99
House 15	<input type="checkbox"/>	<input type="checkbox"/>		23,128	764	3.42
House 16	<input type="checkbox"/>	<input type="checkbox"/>		21,153	-1,211	-5.41

Number of Districts: Target Mean = 22,364
 Maximum Dev. (%): 10

Proposed Plans – House Honolulu

HAWAII REAPPORTIONMENT COMMISSION

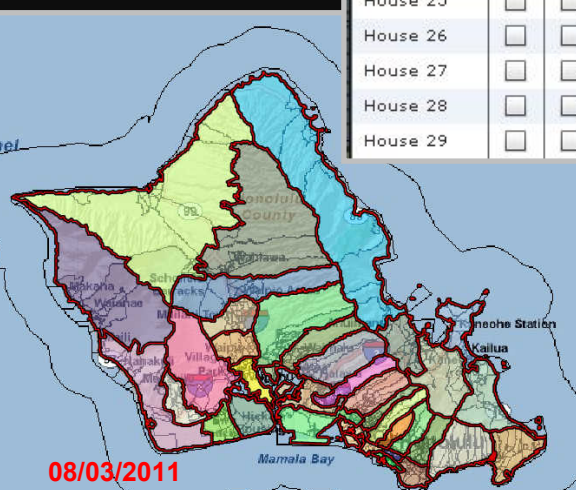
PROPOSED PLAN: HOUSE HONOLULU

Plan: House Honolulu
 Districts: thirtyfive (House 17 - 51)
 Target Population: 27,234 per district

Plan Deviation: **9.70%**
 highest deviation: 4.88%
 lowest deviation: -4.82%

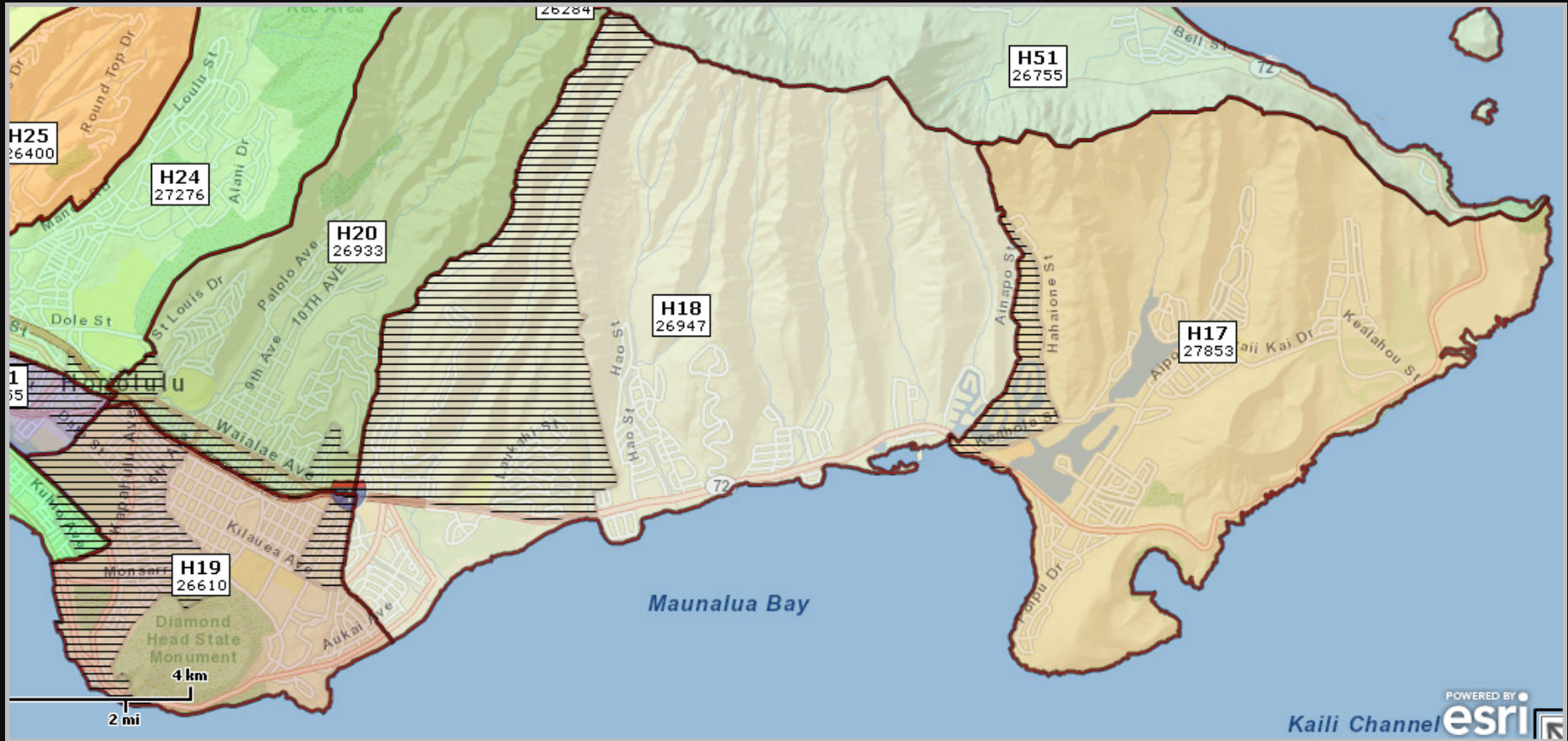
District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 17	<input type="checkbox"/>	<input type="checkbox"/>		27,853	619	2.27
House 18	<input type="checkbox"/>	<input type="checkbox"/>		26,947	-287	-1.05
House 19	<input type="checkbox"/>	<input type="checkbox"/>		26,610	-624	-2.29
House 20	<input type="checkbox"/>	<input type="checkbox"/>		26,933	-301	-1.11
House 21	<input type="checkbox"/>	<input type="checkbox"/>		27,855	621	2.28
House 22	<input type="checkbox"/>	<input type="checkbox"/>		26,111	-1,123	-4.12
House 23	<input type="checkbox"/>	<input type="checkbox"/>		26,620	-614	-2.25
House 24	<input type="checkbox"/>	<input type="checkbox"/>		27,276	42	0.15
House 25	<input type="checkbox"/>	<input type="checkbox"/>		26,400	-834	-3.06
House 26	<input type="checkbox"/>	<input type="checkbox"/>		26,303	-931	-3.42
House 27	<input type="checkbox"/>	<input type="checkbox"/>		26,858	-376	-1.38
House 28	<input type="checkbox"/>	<input type="checkbox"/>		27,917	683	2.51
House 29	<input type="checkbox"/>	<input type="checkbox"/>		27,613	379	1.39

House 30	<input type="checkbox"/>	<input type="checkbox"/>		26,864	-370	-1.36
House 31	<input type="checkbox"/>	<input type="checkbox"/>		27,360	126	0.46
House 32	<input type="checkbox"/>	<input type="checkbox"/>		28,127	893	3.28
House 33	<input type="checkbox"/>	<input type="checkbox"/>		27,421	187	0.69
House 34	<input type="checkbox"/>	<input type="checkbox"/>		27,763	529	1.94
House 35	<input type="checkbox"/>	<input type="checkbox"/>		27,291	57	0.21
House 36	<input type="checkbox"/>	<input type="checkbox"/>		26,798	-436	-1.60
House 37	<input type="checkbox"/>	<input type="checkbox"/>		28,172	938	3.44
House 38	<input type="checkbox"/>	<input type="checkbox"/>		28,562	1,328	4.88
House 39	<input type="checkbox"/>	<input type="checkbox"/>		28,439	1,205	4.42
House 40	<input type="checkbox"/>	<input type="checkbox"/>		28,502	1,268	4.66
House 41	<input type="checkbox"/>	<input type="checkbox"/>		27,942	708	2.60
House 42	<input type="checkbox"/>	<input type="checkbox"/>		27,118	-116	-0.43
House 43	<input type="checkbox"/>	<input type="checkbox"/>		27,675	441	1.62
House 44	<input type="checkbox"/>	<input type="checkbox"/>		26,194	-1,040	-3.82
House 45	<input type="checkbox"/>	<input type="checkbox"/>		27,610	376	1.38
House 46	<input type="checkbox"/>	<input type="checkbox"/>		28,177	943	3.46
House 47	<input type="checkbox"/>	<input type="checkbox"/>		26,483	-751	-2.76
House 48	<input type="checkbox"/>	<input type="checkbox"/>		25,922	-1,312	-4.82
House 49	<input type="checkbox"/>	<input type="checkbox"/>		26,284	-950	-3.49
House 50	<input type="checkbox"/>	<input type="checkbox"/>		26,452	-782	-2.87
House 51	<input type="checkbox"/>	<input type="checkbox"/>		26,755	-479	-1.76

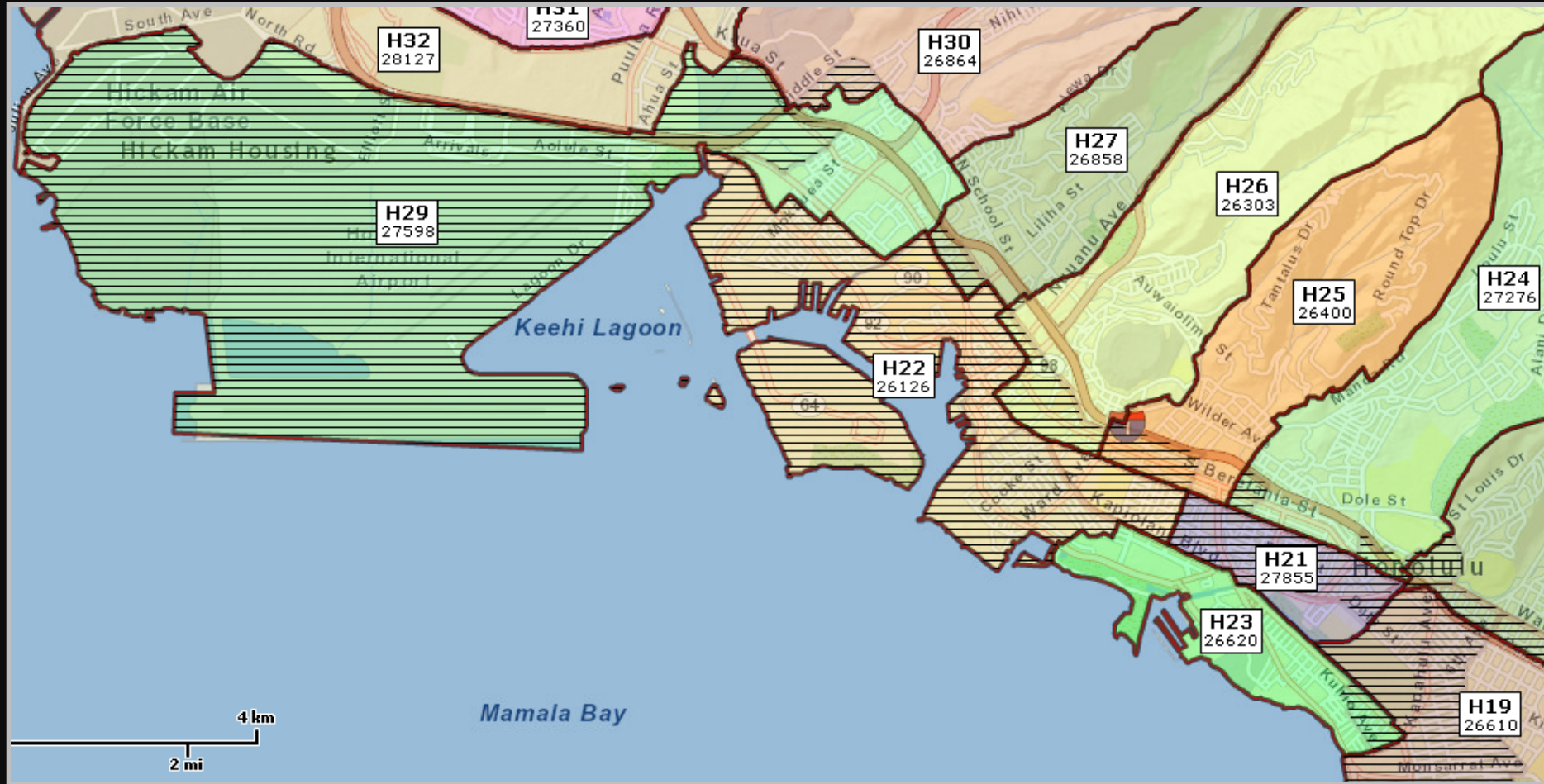


08/03/2011

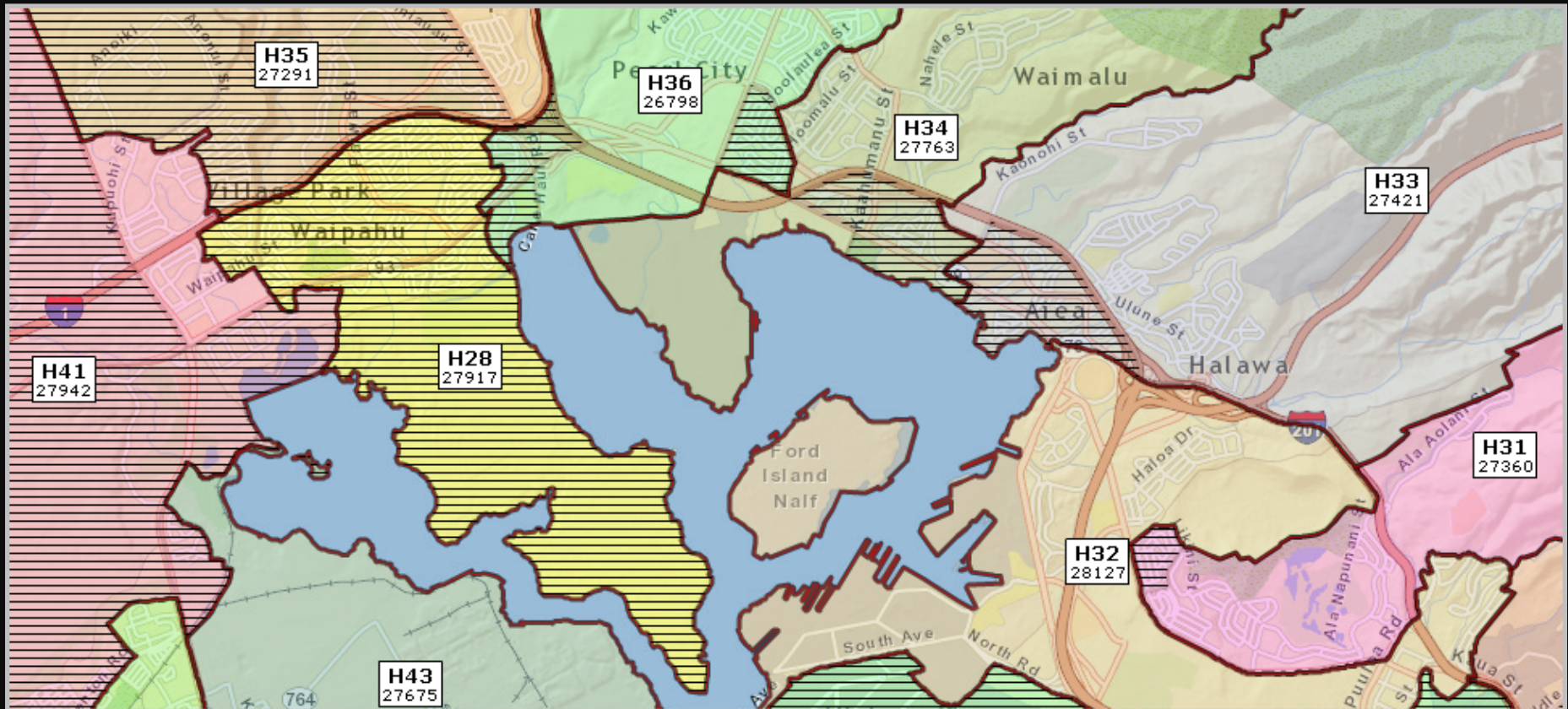
Proposed Plans – House Honolulu



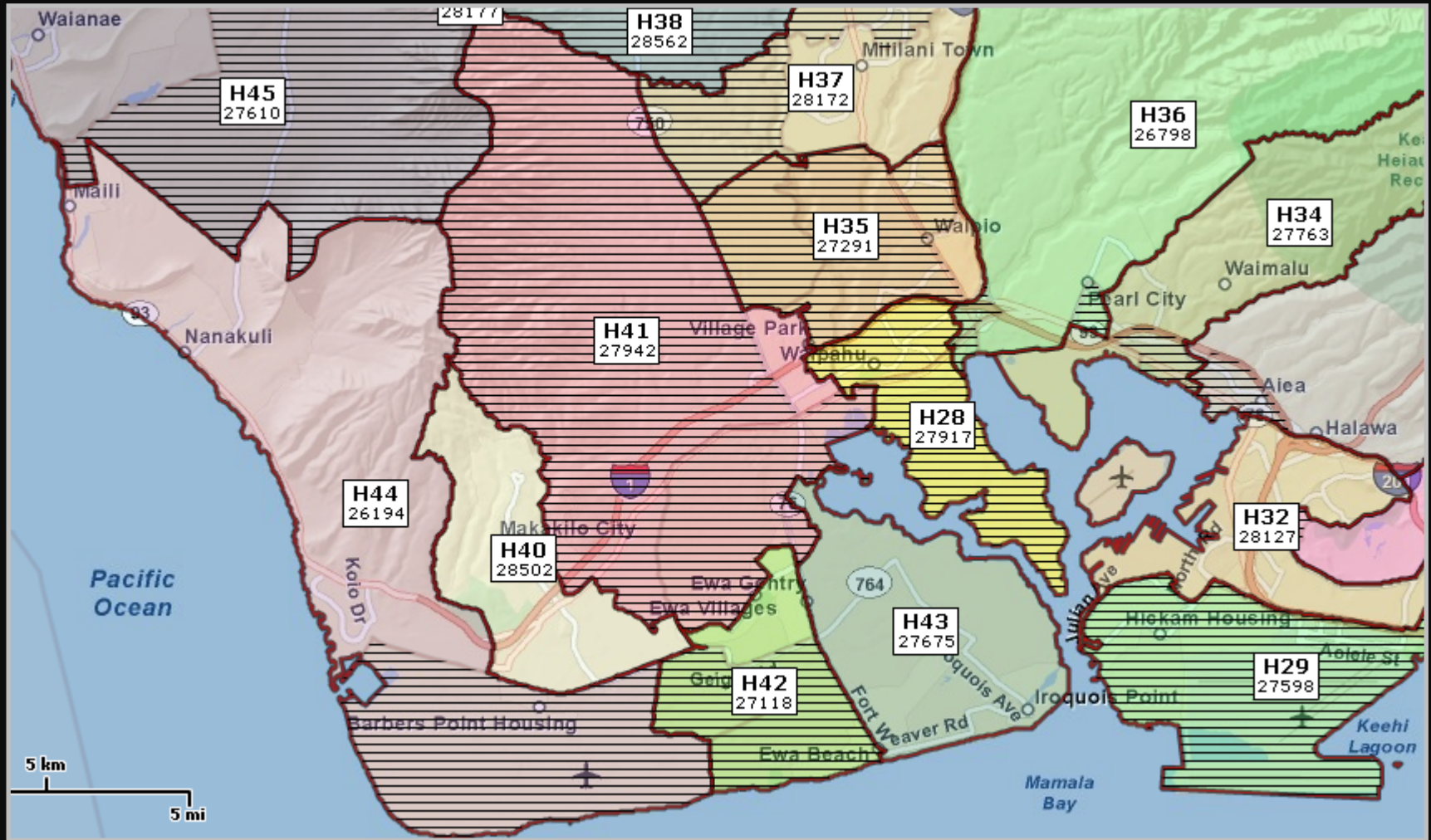
Proposed Plans – House Honolulu



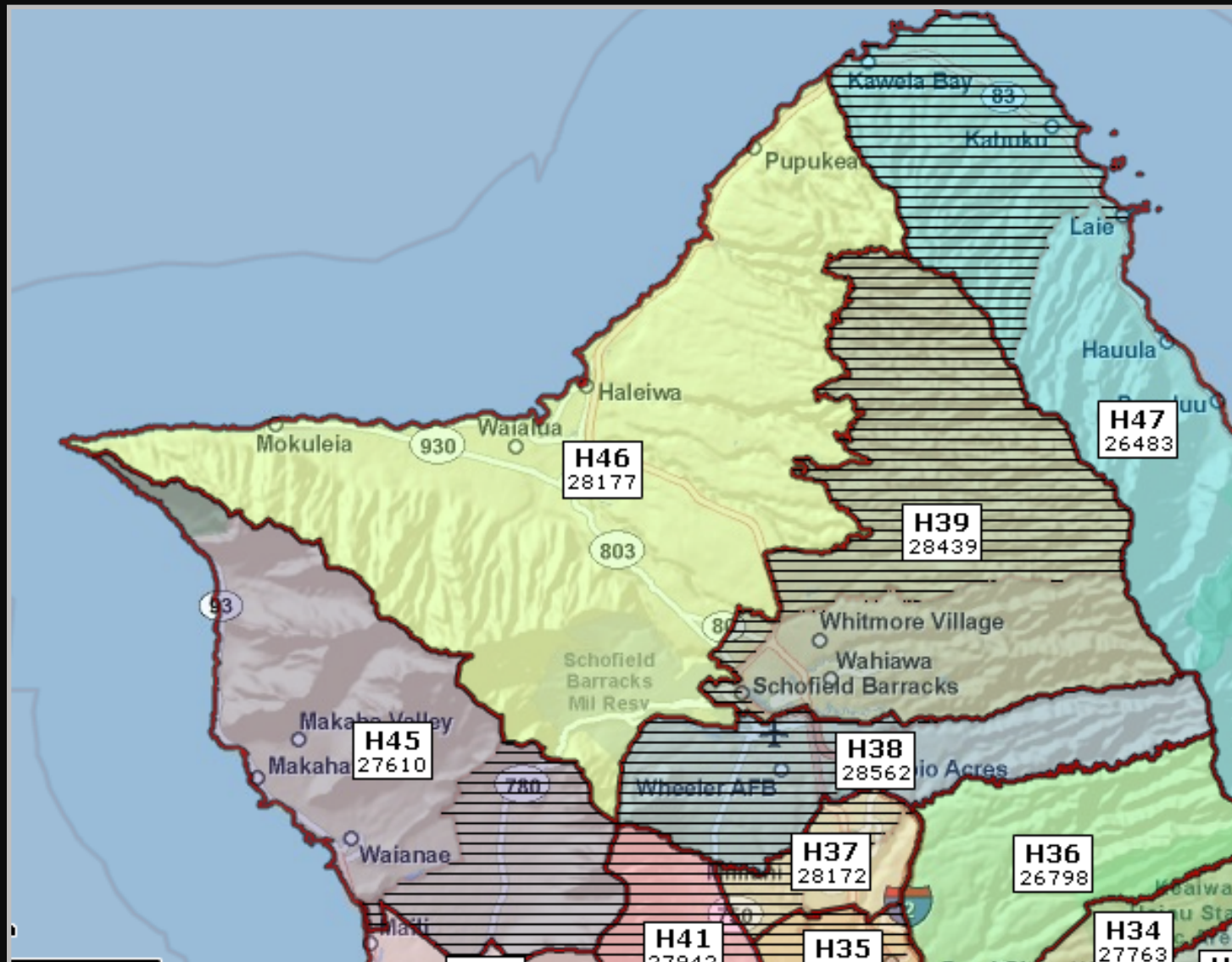
Proposed Plans – House Honolulu



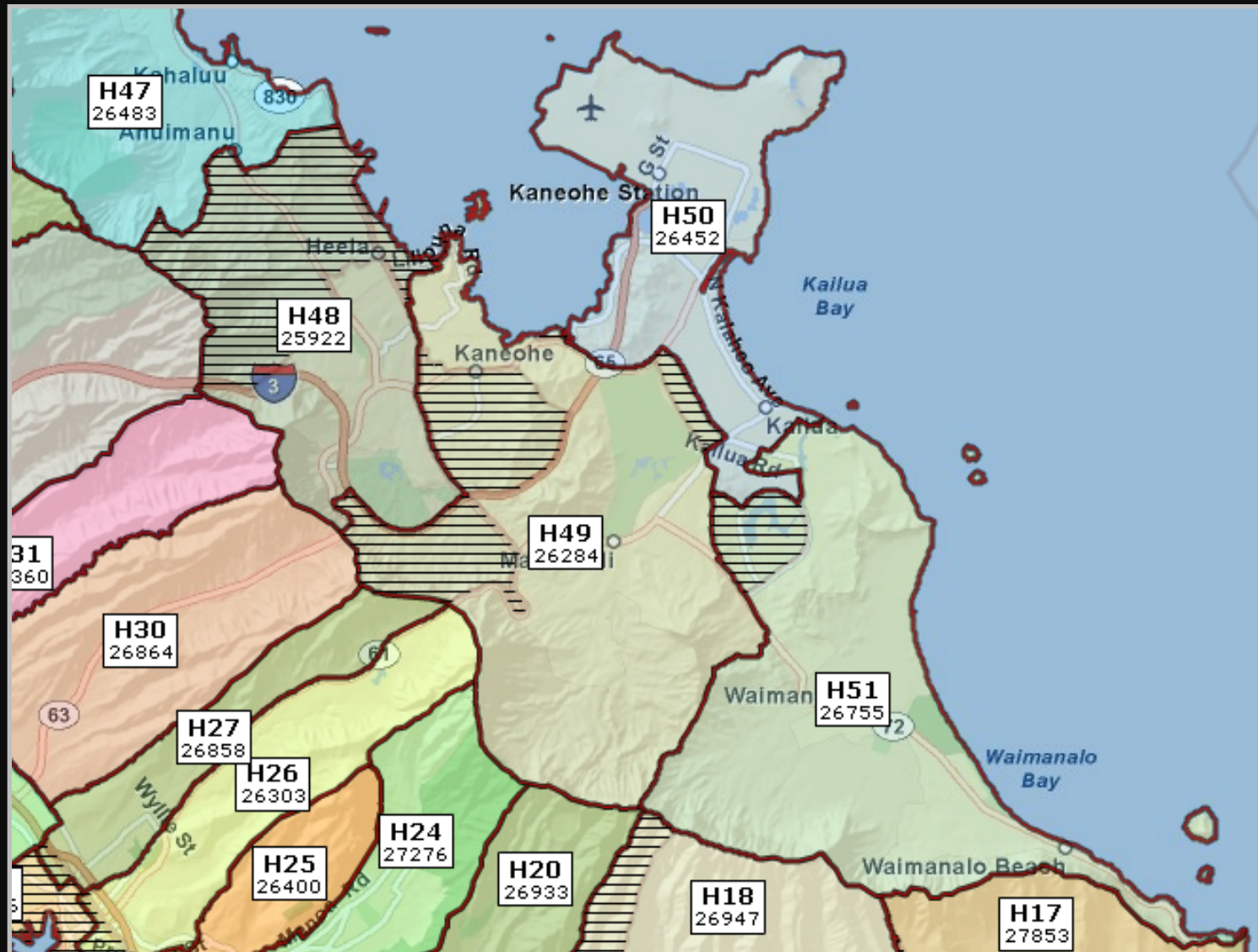
Proposed Plans – House Honolulu



Proposed Plans – House Honolulu



Proposed Plans – House Honolulu



Topics

- **State Population Base**
- **Reapportionment Among Basic Island Units**
- **Redistricting Within Basic Island Units**
- **Proposed Plans: Findings and Recommendations of the Technical Committee**
 - **Congress**
 - **Senate**
 - **House**
- ➔ • **Commission Schedule – Public Hearings**

Commission Schedule

Aug 5	Commission Meeting: Adopt proposed plan
Aug 30 – Sep 16	Public Hearings and Comment Period
Sep 26	Statutory deadline to adopt final plans
Oct 10	Statutory deadline to publish final plans
Dec 29	Statutory deadline to submit final report to State Legislature

Commission Schedule – Public Hearings

Aug 30	West Oahu	6:00 pm	Kapolei High School Cafeteria
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Hawaii Reapportionment Commission

17 August 2011

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

Address:

State Capitol

415 South Beretania Street, Rm #445

Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

Fax: (808) 586-4105

Email: reapportionment@hawaii.gov

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Commission Proposed Plans – All Online

- **Large Scale Maps for Public Inspection**
- **Online Maps**
 - **Static PDFs**
 - **Online Map for Viewing**
 - **Online Map for Editing – Hawaii Redistricting Online**

Proposed Plans – Reapportionment Website

<http://hawaii.gov/elections/reapportionment>

REDISTRICTING AND REAPPORTIONMENT

Redistricting and reapportionment are the processes used to ensure each political district has been created equally.

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
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Email:  reapportionment@hawaii.gov

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<http://hawaii.gov/elections/reapportionment>

CENTRAL HONOLULU

Hawaii State Library, 478 S. King St.

City & County of Honolulu Clerk's Office, Honolulu Hale, 530 S. King St.

Kaimuki Public Library, 1041 Koko Head Ave.

LEEWARD/CENTRAL OAHU

Office of Elections, 802 Lehua Ave., Pearl City

Kapolei Public Library, 1020 Manawai St.

Mililani Public Library, 95-450 Makaimoimo St.

Pearl City Public Library, 1138 Waimano Home Rd.

WINDWARD OAHU

Kahuku Public & School Library, 56-490 Kamehameha Hwy.

Kaneohe Public Library, 45-829 Kamehameha Hwy.

Proposed Plans – Public Inspection

<http://hawaii.gov/elections/reapportionment>

HAWAII

Hawaii County Clerk's Office-Hilo, 25 Aupuni St.

Hawaii County Clerk's Office-Kona Civic Center, 74-5044 Ane Keohokalohe Hwy.

Hilo Public Library, 300 Waianuenue Ave.

University of Hawaii at Hilo Library, 200 W. Kawili St.

Kailua-Kona Public Library, 75-138 Hualalai Rd.

Kealahou Public Library, 81-6300 Mamalahoa Hwy.

Keaau Public School & Library, 16-571 Keaau-Pahoa Rd.

Laupahoehoe Public & School Library, 35-2065 Old Mamalahoa Hwy.

Naalehu Public Library, 95-5669 Mamalahoa Hwy.

Pahoa Community & School Library, 15-3038 Puna Rd.

Parker Public & School Library, 67-1209 Mamalahoa Hwy., Kamuela

Proposed Plans – Public Inspection

<http://hawaii.gov/elections/reapportionment>

MAUI, MOLOKAI & LANAI

Maui County Clerk's Office, 200 S. High St., Wailuku

Hana Public School & Library, 4111 Hana Hwy.

Lahaina Public Library, 680 Wharf St.

Maui Public Library, 90 School St., Kahului

Molokai Library, 15 Alamalama St., Kaunakakai

Lanai Public & School Library, 555 Fraser Ave., Lanai City

KAUAI

Kauai County Clerk's Office, 4386 Rice St., Lihue

Hanapepe Public Library, 4490 Kona Rd.

Kapaa Public Library, 1464 Kuhio Hwy.

Koloa Public Library, 3223 Poipu Rd.

Princeville Public Library, 4343 Emmalani Dr.


Proposed Plans – Static PDFs

<http://hawaii.gov/elections/reapportionment>

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
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Proposed Plans – Static PDFs

STATE OF HAWAII 2011 PROPOSED LEGISLATIVE REAPPORTIONMENT PLAN

✓ Hawaii Reapportionment - Proposed Senate and House Districts available [here](#).

CONGRESSIONAL DISTRICTS	SENATE DISTRICTS	HOUSE DISTRICTS
PDF	PDF	PDF


Proposed Plans (Large Scale Maps)

HAWAII	MAUI	KAUAI	OAHU
UNIT	UNIT	UNIT	UNIT - H1
REGION 1	REGION 1	REGION 1	REGION 1
REGION 2	REGION 2	REGION 2	REGION 2
REGION 3	REGION 3		REGION 3
REGION 4	REGION 4		REGION 4

Proposed Plans – Static PDFs

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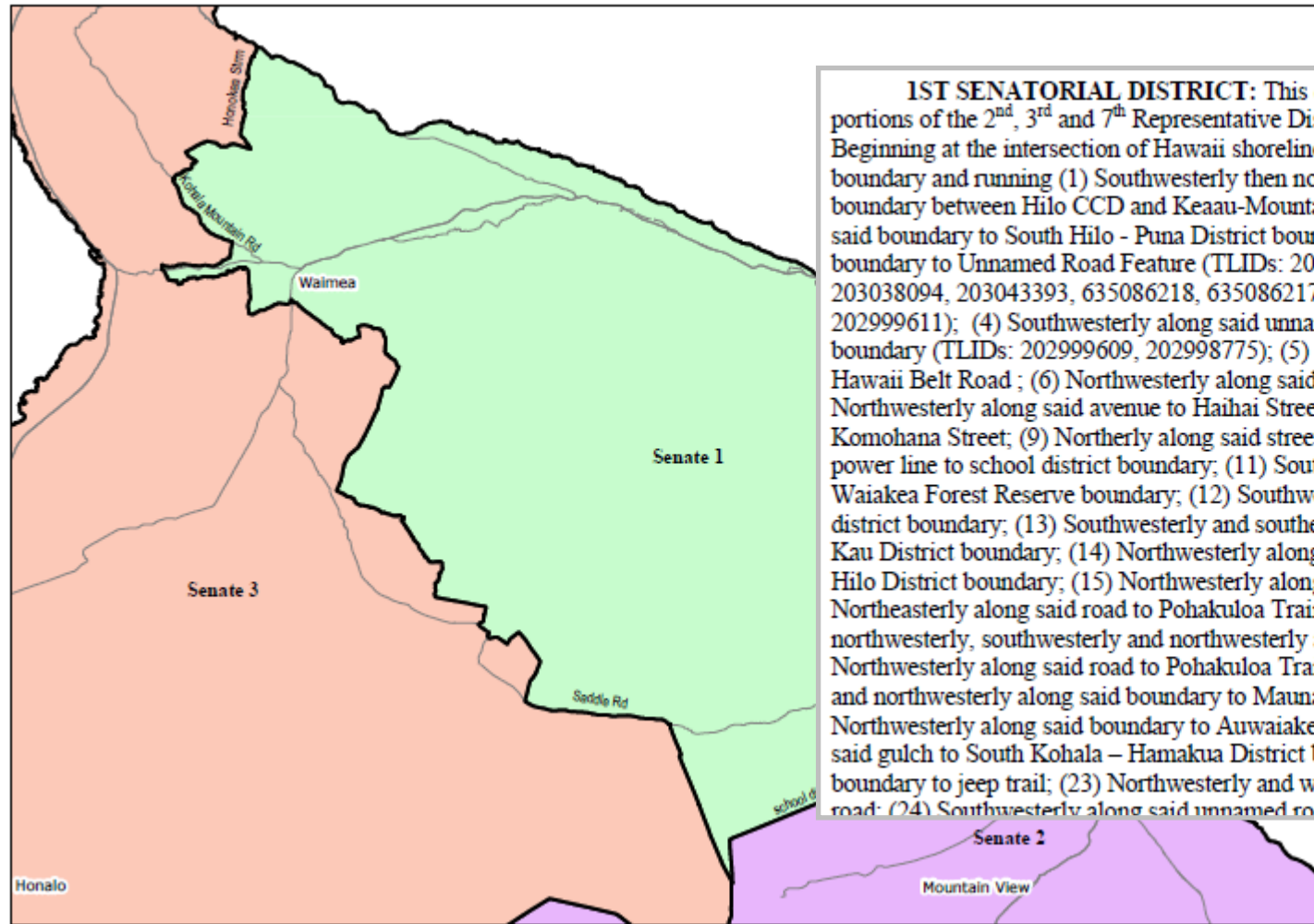
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UNIT	UNIT	UNIT	UNIT - H1
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REGION 3	REGION 3		REGION 3
REGION 4	REGION 4		REGION 4

Proposed Plans – Static PDFs

2011 Hawaii State Reapportionment Commission

Proposed Plan for Senate 1



1ST SENATORIAL DISTRICT: This district is comprised of the 1st and portions of the 2nd, 3rd and 7th Representative Districts and described as follows: Beginning at the intersection of Hawaii shoreline and South Hilo - Puna District boundary and running (1) Southwesterly then northwesterly along said boundary to boundary between Hilo CCD and Keaau-Mountain View CCD; (2) Southwesterly along said boundary to South Hilo - Puna District boundary; (3) Southwesterly along said boundary to Unnamed Road Feature (TLIDs: 202999615, 202999997, 635086370, 203038094, 203043393, 635086218, 635086217, 203044158, 203000344, 203000351, 202999611); (4) Southwesterly along said unnamed feature to South Hilo - Puna District boundary (TLIDs: 202999609, 202998775); (5) Southwesterly along said boundary to Hawaii Belt Road ; (6) Northwesterly along said road to Kilauea Avenue; (7) Northwesterly along said avenue to Haihai Street; (8) Westerly along said street to Komohana Street; (9) Northerly along said street to Power line; (10) Westerly along said power line to school district boundary; (11) Southwesterly along said district boundary to Waiakea Forest Reserve boundary; (12) Southwesterly along said boundary to school district boundary; (13) Southwesterly and southerly along said boundary to South Hilo – Kau District boundary; (14) Northwesterly along said boundary to South Hilo – North Hilo District boundary; (15) Northwesterly along said boundary to Saddle Road; (16) Northeasterly along said road to Pohakuloa Training Area boundary; (17) Northeasterly, northwesterly, southwesterly and northwesterly along said boundary to Saddle Road; (18) Northwesterly along said road to Pohakuloa Training Area boundary; (19) Northeasterly and northwesterly along said boundary to Mauna Kea Forest Reserve boundary; (20) Northwesterly along said boundary to Auwaiakeakua Gulch; (21) Northwesterly along said gulch to South Kohala – Hamakua District boundary; (22) Northeasterly along said boundary to jeep trail; (23) Northwesterly and westerly along said jeep trail to unnamed road; (24) Southwesterly along said unnamed road to jeep trail; (25) Northwesterly along


Proposed Plans – Static PDFs

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REGION 3	REGION 3		REGION 3
REGION 4	REGION 4		REGION 4


Proposed Plans – Online Map for Viewing

<http://hawaii.gov/elections/reapportionment>

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
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Proposed Plans – Online Map for Viewing

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Hawaii Reapportionment - Proposed Senate and House Districts



Hawaii Reapportionment - Proposed Senate and House Districts
As proposed by the Hawaii Reapportionment Commission on August 5, 2011
Web Mapping Application by royce (last modified: August 6, 2011)
☆☆☆☆☆ (0 ratings, 23 views)

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Description

Senate and House districts as proposed by the Hawaii Reapportionment Commission on August 5, 2011. Public hearings will be Aug 30 - Sep 16.

Access and Use Constraints

Comments (0)

Proposed Plans – Online Map for Viewing

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Hawaii

Hawaii Reapportionment - Proposed Senate and House Districts

Legend

HRC Proposed Aug 5

- Proposed senate
- Proposed house

Open

Description

Senate and August 5, 2

Access and

A map from: royce

Proposed Plans – Online Map for Viewing


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Hawaii

Hawaii Reapportionment - Proposed Senate and House Districts

Legend

HRC Proposed Aug 5

- Proposed senate 
- Proposed house 



bing esri®

A map from: royce

Proposed Plans – Online Map for Viewing

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Hawaii

Hawaii Reapportionment - Proposed Senate and House Districts

Legend
No legend

0 5 10mi

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A map from: royce

Description
Senate and August 5, 2

Access and

Proposed Plans – Online Map for Viewing

ArcGIS GALLERY MAP GROUPS MY CONTENT Find

Hawaii Reapportionment - Proposed Senate and House Districts

Legend

HRC Proposed Aug 5

- Proposed senate (purple outline)
- Proposed house (blue outline)

Description

Senate and August 5, 2

Access and

Open

A map from: royce

Proposed Plans – Online Map for Viewing

ArcGIS GALLERY MAP GROUPS

Hawaii Reapportionment - Proposed Senate and House Districts

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Senate and House districts as proposed by the Hawaii Reapportionment Commission. August 5, 2011. Public hearings will be Aug 30 - Sep 16.

Access and Use Constraints

Available on the App Store

for Windows Phone 7

App for Android—expected later this year



Proposed Plans – Online Map for Viewing

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Hawaii Reapportionment - Proposed Senate and House Districts

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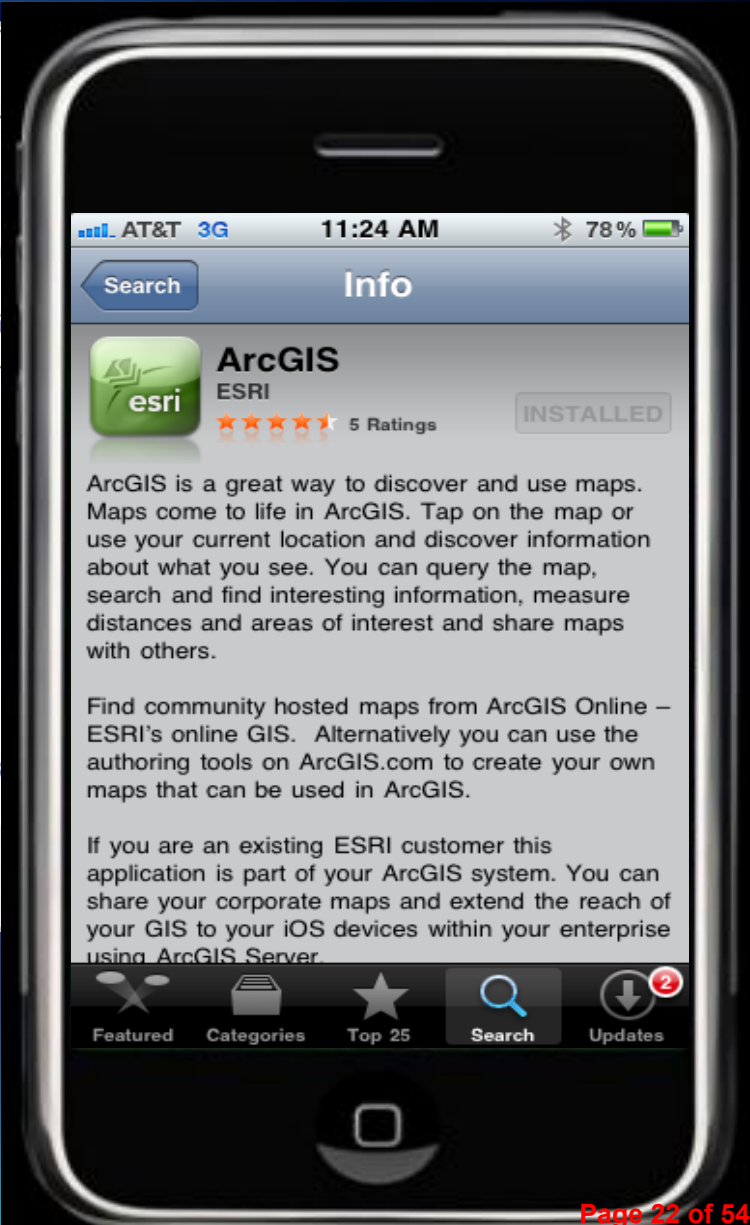
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Proposed Plans – Online Map for Viewing

ArcGIS GALLERY MAP GROUPS

Hawaii Reapportionment - Proposed Senate and House Districts

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Proposed Plans – Online Map for Viewing

ArcGIS GALLERY MAP GROUPS

Hawaii Reapportionment - Proposed Senate and House Districts

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Proposed Plans – Online Map for Viewing

ArcGIS GALLERY MAP GROUPS

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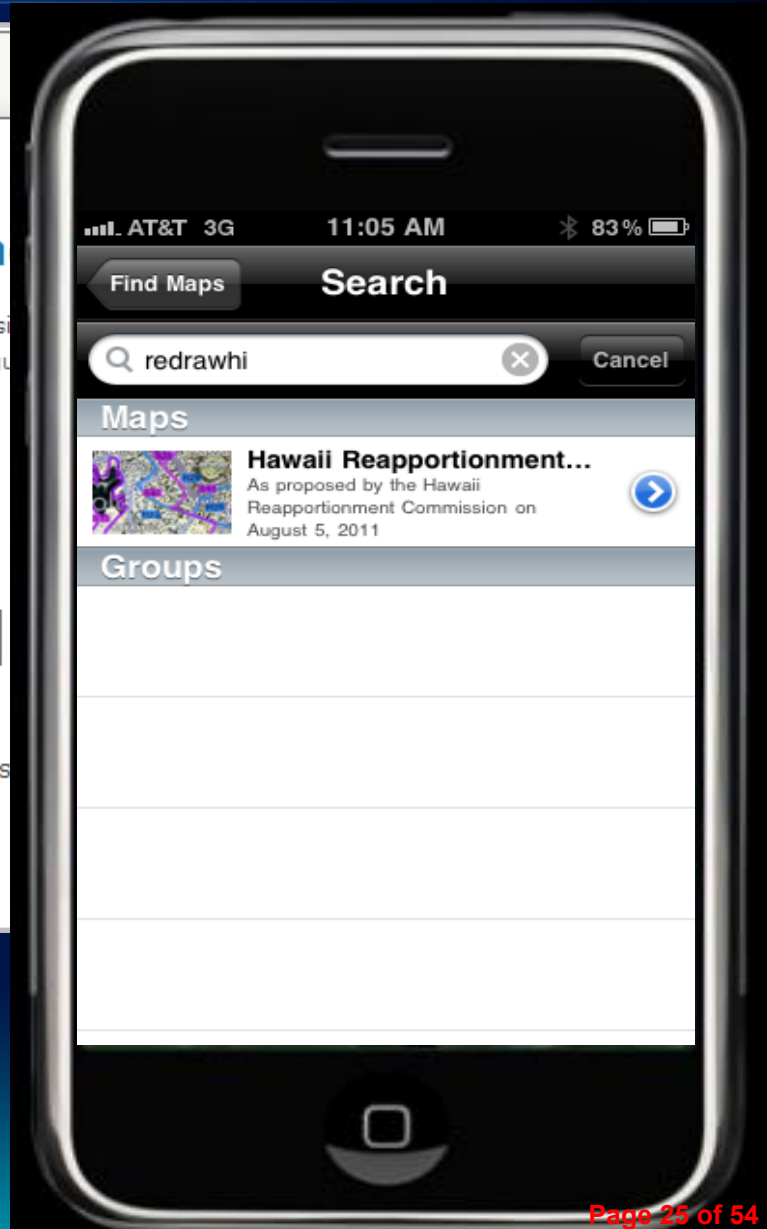
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Description

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Access and Use Constraints



Proposed Plans – Online Map for Editing



Welcome to the Hawai'i Redistricting Online Application!

Hawai'i Redistricting Online assists the Hawai'i State Reapportionment Commission, State Reapportionment Advisory Councils, advocacy groups, and the general public in drawing legislative and congressional redistricting plans following the 2010 U.S. Census. This ArcGIS software platform and pertinent dataset components provide comprehensive features and functionality for plan management, visualization, editing, and community collaboration.

In establishing the boundaries of the districts, the Hawai'i Reapportionment Commission will give consideration to the following factors: (a) population deviation from ideal district targets (b) cohesiveness, contiguity, integrity, and compactness of territory, and (c) socio-economic interests of the districts.

Plans submitted by Advisory Councils or the public prior to July 26, 2011 will be reviewed by the Commission before their proposed plan is published. There will be time for the Commission to receive and review additional plans while the proposed plan is being reviewed in the public hearing phase. Plans submitted by Advisory Councils or the public on or after July 26, 2011 and prior to the last public hearing date (no later than September 16, 2011), will be reviewed by the Commission after the final plan is published.

HAWAII COUNTY COUNCIL NOTICE: You may use this application to create a plan for Hawai'i County Council, HOWEVER, you must follow the directions provided by the Hawai'i County Redistricting Commission for submitting plans. DO NOT USE THE "SUBMIT" BUTTON. The State of Hawai'i Reapportionment Commission is not responsible for Hawai'i County Council plans.

How to use this tool:



<https://redistricting.hawaii.gov/>

Proposed Plans – Online Map for Editing



Choose Template Plan

Choose a template plan:

Plan Name	Description
Hawaii Congress (H-1) - Proposed	Proposed Hawaii Congress (H-1) plan as published by the Hawaii Reapportionment Commr
Hawaii Congress (Wheeler) - Proposed	Proposed Hawaii Congress (Wheeler) plan as published by the Hawaii Reapportionment C
Hawaii Senate - Proposed	Proposed Hawaii Senate plan as published by the Hawaii Reapportionment Commission.
Hawaii House - Proposed	Proposed Hawaii House plan as published by the Hawaii Reapportionment Commission.
Hawaii Council - Existing	County of Hawaii Council template using existing (2001-2010) district boundaries.
Maui Senate - Proposed	Proposed Maui Senate plan as published by the Hawaii Reapportionment Commission.
Maui House - Proposed	Proposed Maui House plan as published by the Hawaii Reapportionment Commission.
Honolulu Senate - Proposed	Proposed Honolulu Senate plan as published by the Hawaii Reapportionment Commission
Honolulu House - Proposed	Proposed Honolulu House plan as published by the Hawaii Reapportionment Commission.
Kauai House - Proposed	Proposed Kauai House plan as published by the Hawaii Reapportionment Commission.

OK Cancel

Proposed Plans – Public Plans



270 accounts created
17 public plans submitted by Aug 16

Congress	1 plan
Honolulu Senate	2 plans
Honolulu House	4 plans
Hawaii Senate	7 plans
Hawaii House	2 plans
Kauai House	1 plan

Commission Schedule – Public Hearings

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Hawaii Reapportionment Commission

17 August 2011

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Permanent and Non-Permanent Military Residents

The non-permanent resident extraction model used in 1991 and 2001 relied on receiving location specific (address or ZIP Code) residence information for the specific non-permanent residents to be extracted.

In 2011, the data received from the Defense Manpower Data Center (DMDC) does not provide residence information for military sponsors nor does it provide specific breakdowns of permanent and non-permanent residents by location.

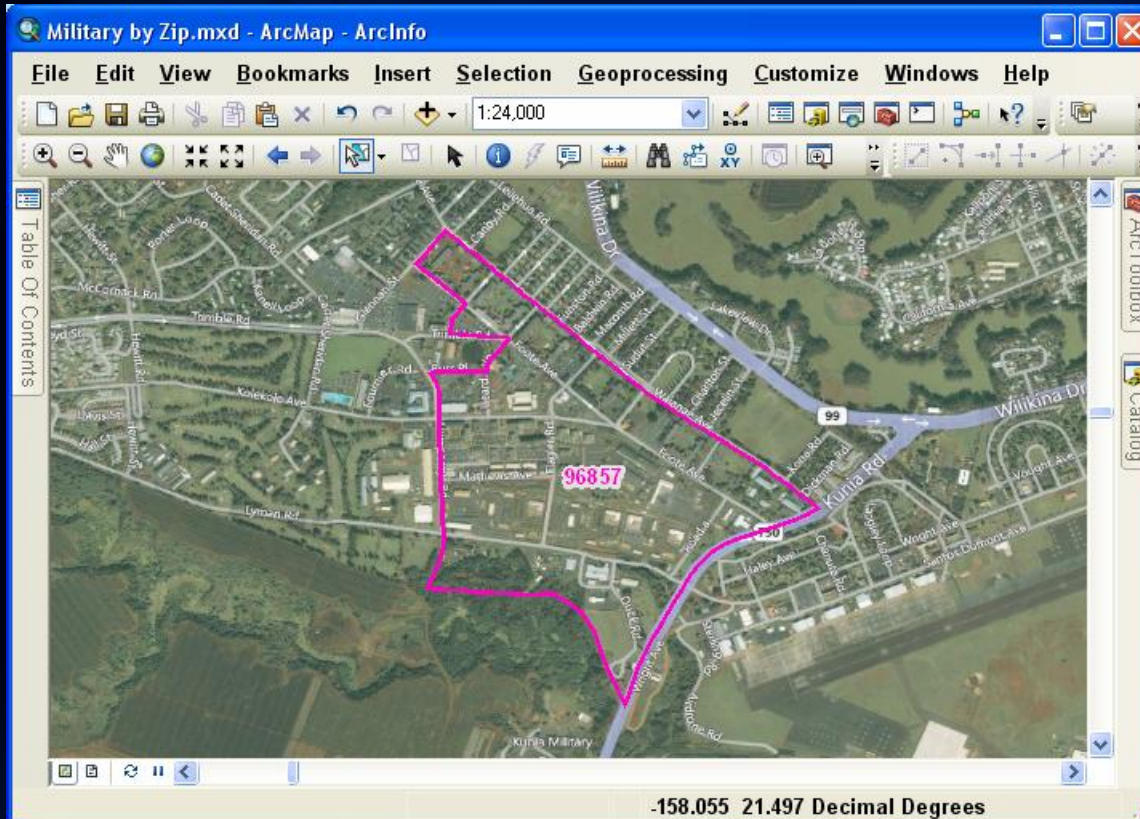
This lack of specific data from DMDC does not allow the model used previously to be used this time.

Examples from Schofield Barracks, Marine Corps Base Hawaii and Joint Base Pearl Harbor will help illustrate.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96857 shows 17,004 sponsors and 968 dependents, for a total of 18,012 military residents.

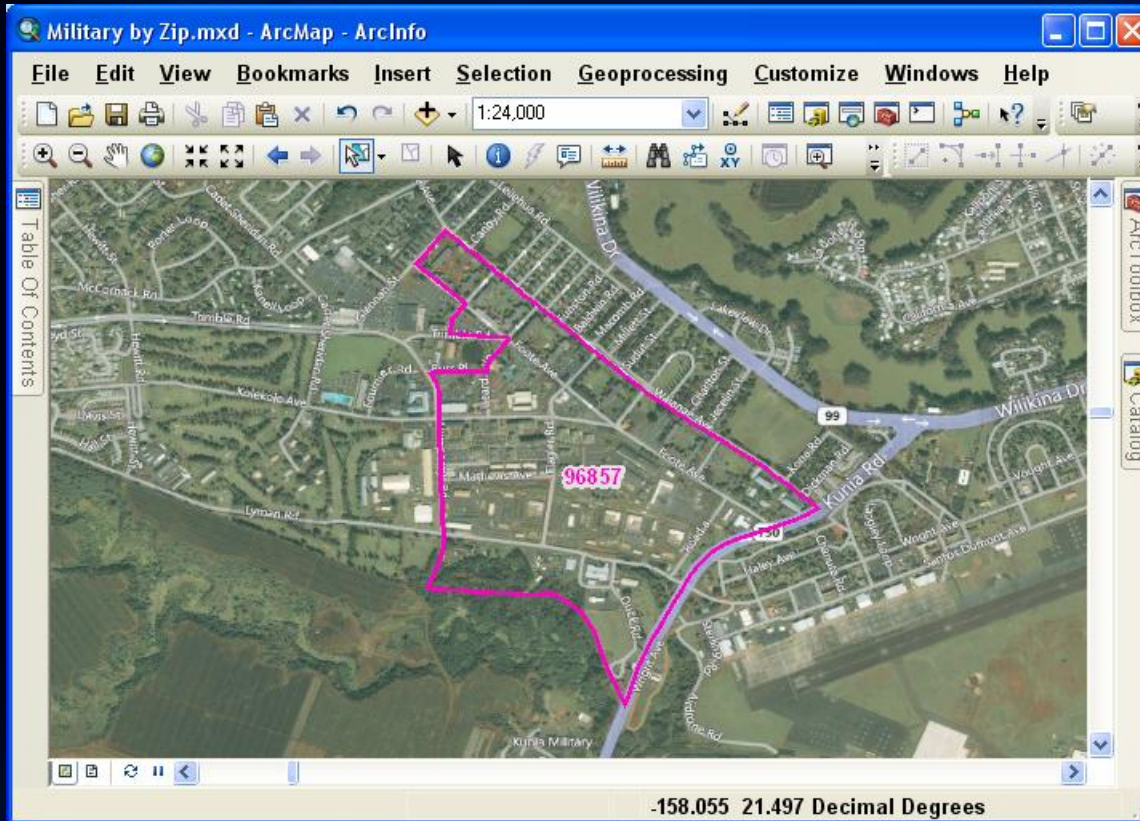
DMDC does not indicate what portion of the 18,012 are permanent residents and what portion are non-permanent residents.



Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96857 shows 17,004 sponsors and 968 dependents, for a total of 18,012 military residents.

DMDC does not indicate what portion of the 18,012 are permanent residents and what portion are non-permanent residents.



U.S. Census data for ZCTA 96857 shows a total population of 2,522.

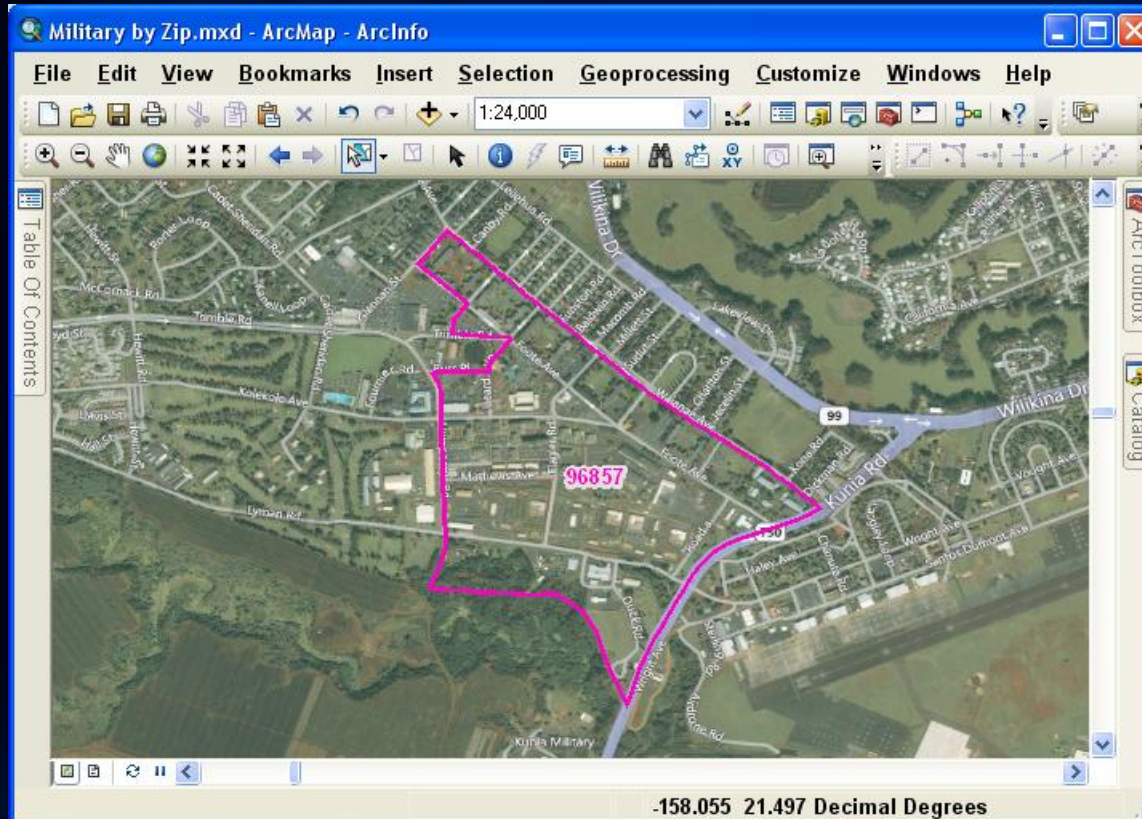
DMDC only reports sponsor duty ZIP Codes and clearly 17,004 sponsors do not live in 96857.

We do not know where these sponsors live nor where they would have been counted by the U.S. Census.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96857 shows 17,004 sponsors and 968 dependents, for a total of 18,012 military residents.

DMDC does not indicate what portion of the 18,012 are permanent residents and what portion are non-permanent residents.



U.S. Census data for ZCTA 96857 shows a total population of 2,522.

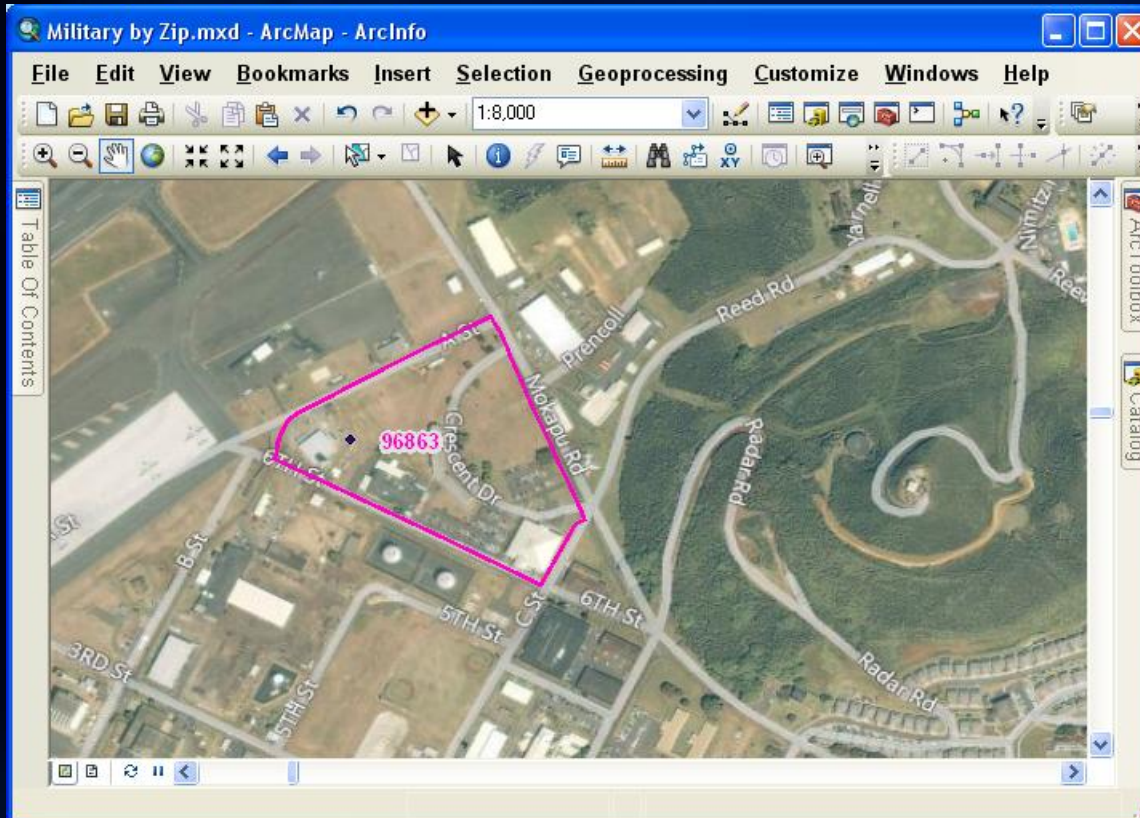
U.S. Census data for ZCTA 96857 further shows that all 2,522 residents are living in group quarters.

There is a question whether dependents live in group quarters.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96863 shows 7,019 sponsors and 627 dependents, for a total of 7,646 military residents.

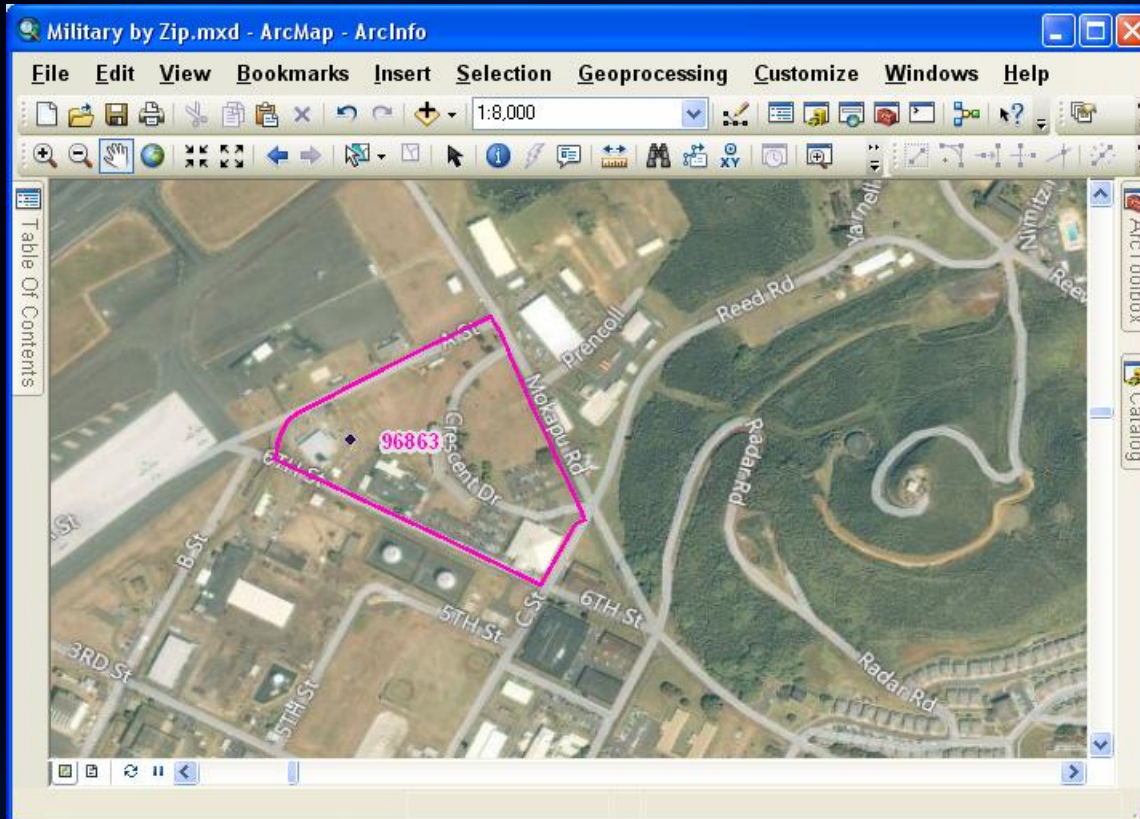
DMDC does not indicate what portion of the 7,646 are permanent residents and what portion are non-permanent residents.



Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96863 shows 7,019 sponsors and 627 dependents, for a total of 7,646 military residents.

DMDC does not indicate what portion of the 7,646 are permanent residents and what portion are non-permanent residents.



U.S. Census data for ZCTA 96863 shows a total population of 52.

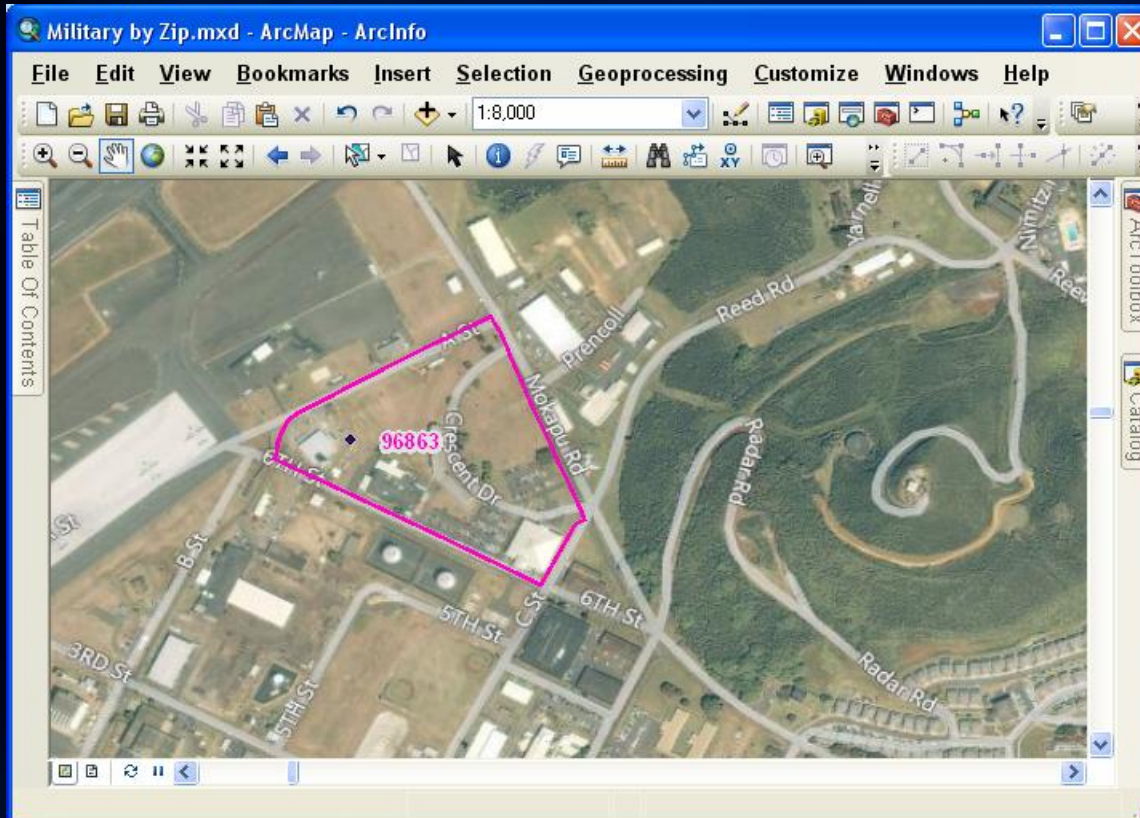
DMDC only reports sponsor duty ZIP Codes and clearly 7,019 sponsors do not live in 96863.

We do not know where these sponsors live nor where they would have been counted by the U.S. Census.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96863 shows 7,019 sponsors and 627 dependents, for a total of 7,646 military residents.

DMDC does not indicate what portion of the 7,646 are permanent residents and what portion are non-permanent residents.



U.S. Census data for ZCTA 96863 shows a total population of 52.

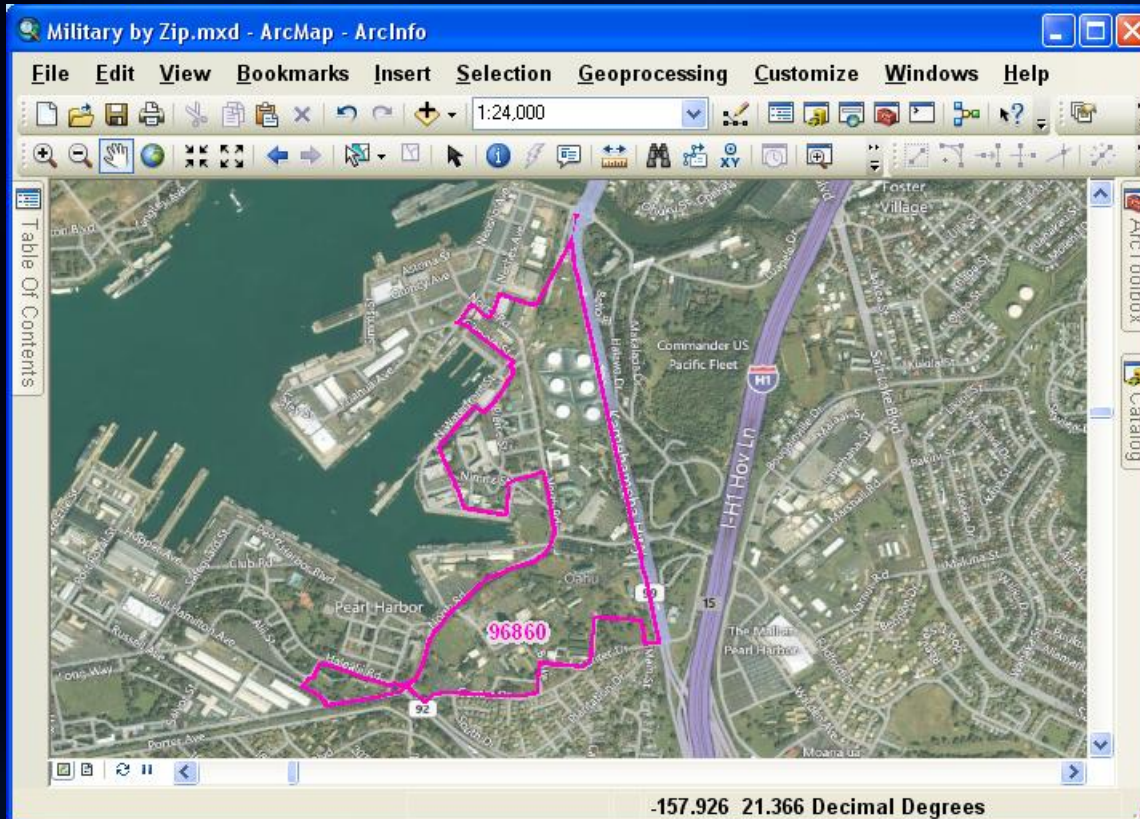
U.S. Census data for ZCTA 96863 further shows that all 52 residents are living in group quarters.

There is a question whether dependents live in group quarters.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96860 shows 3,358 sponsors and 178 dependents, for a total of 3,536 military residents.

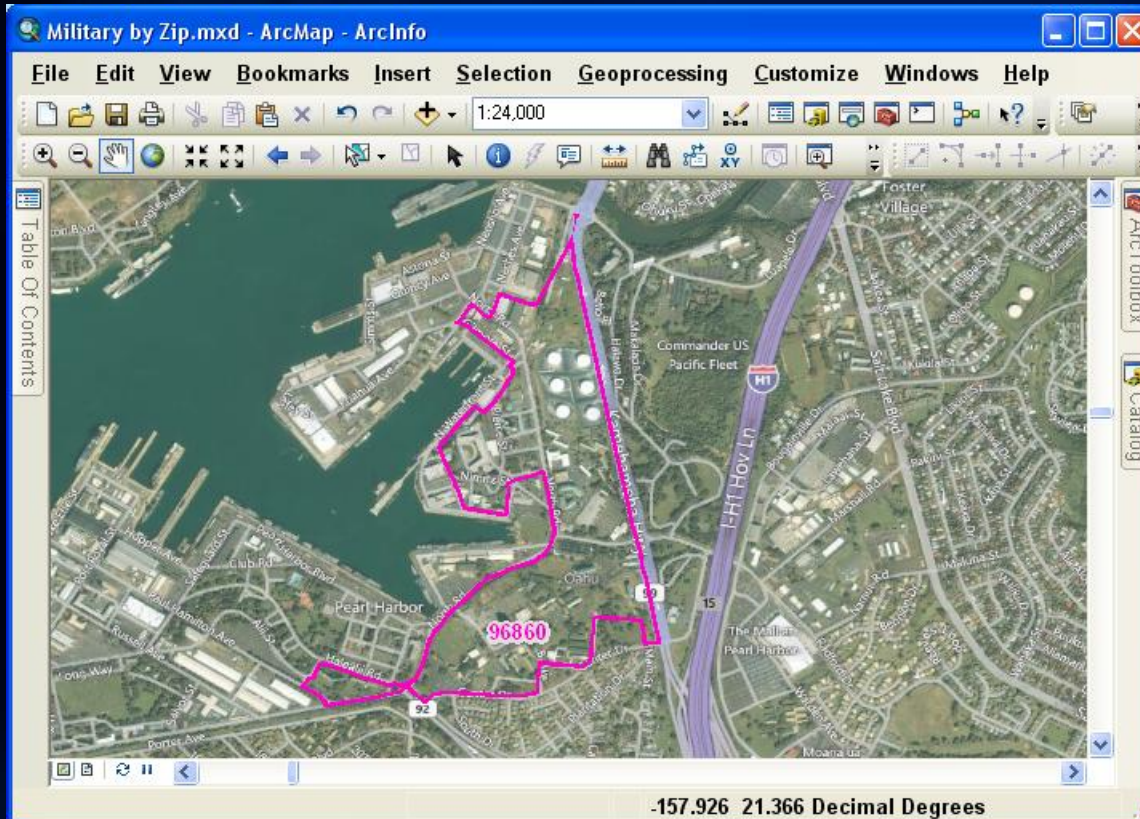
DMDC does not indicate what portion of the 3,536 are permanent residents and what portion are non-permanent residents.



Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96860 shows 3,358 sponsors and 178 dependents, for a total of 3,536 military residents.

DMDC does not indicate what portion of the 3,536 are permanent residents and what portion are non-permanent residents.



U.S. Census data for ZCTA 96860 shows a total population of 1,124.

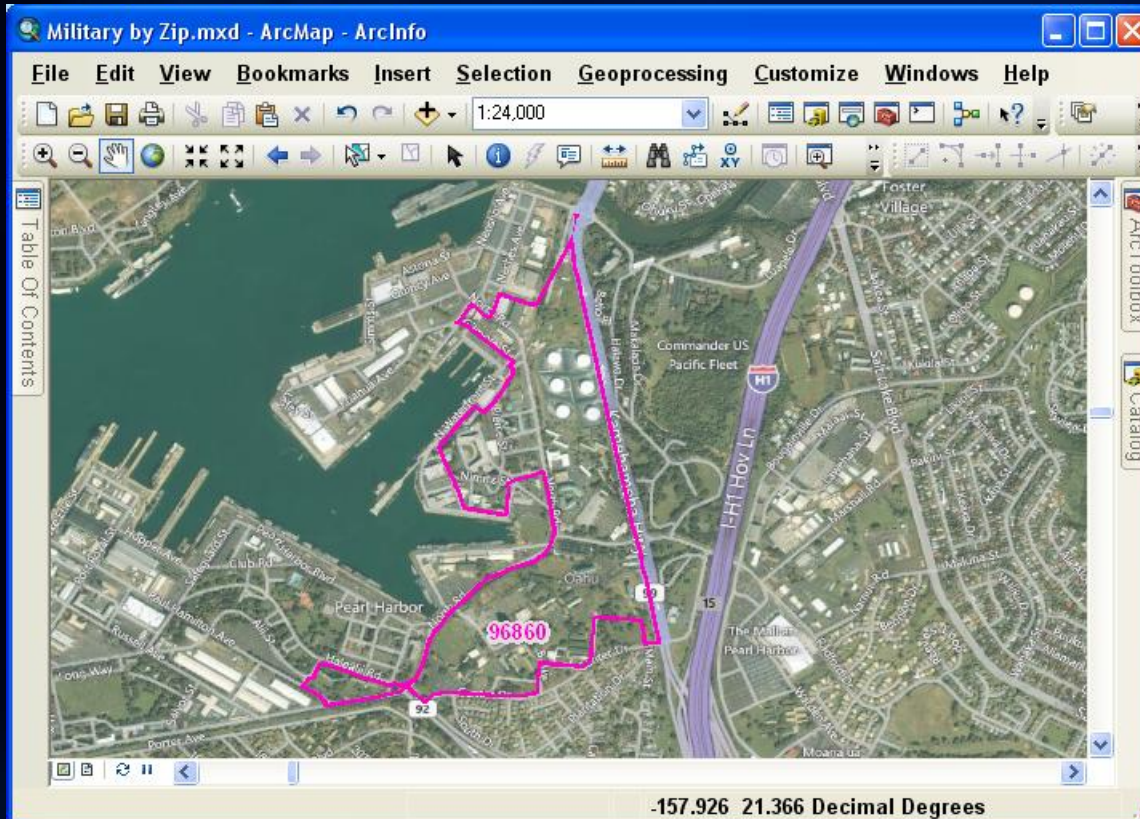
DMDC only reports sponsor duty ZIP Codes and clearly 3,358 sponsors do not live in 96860.

We do not know where these sponsors live nor where they would have been counted by the U.S. Census.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96860 shows 3,358 sponsors and 178 dependents, for a total of 3,536 military residents.

DMDC does not indicate what portion of the 3,536 are permanent residents and what portion are non-permanent residents.



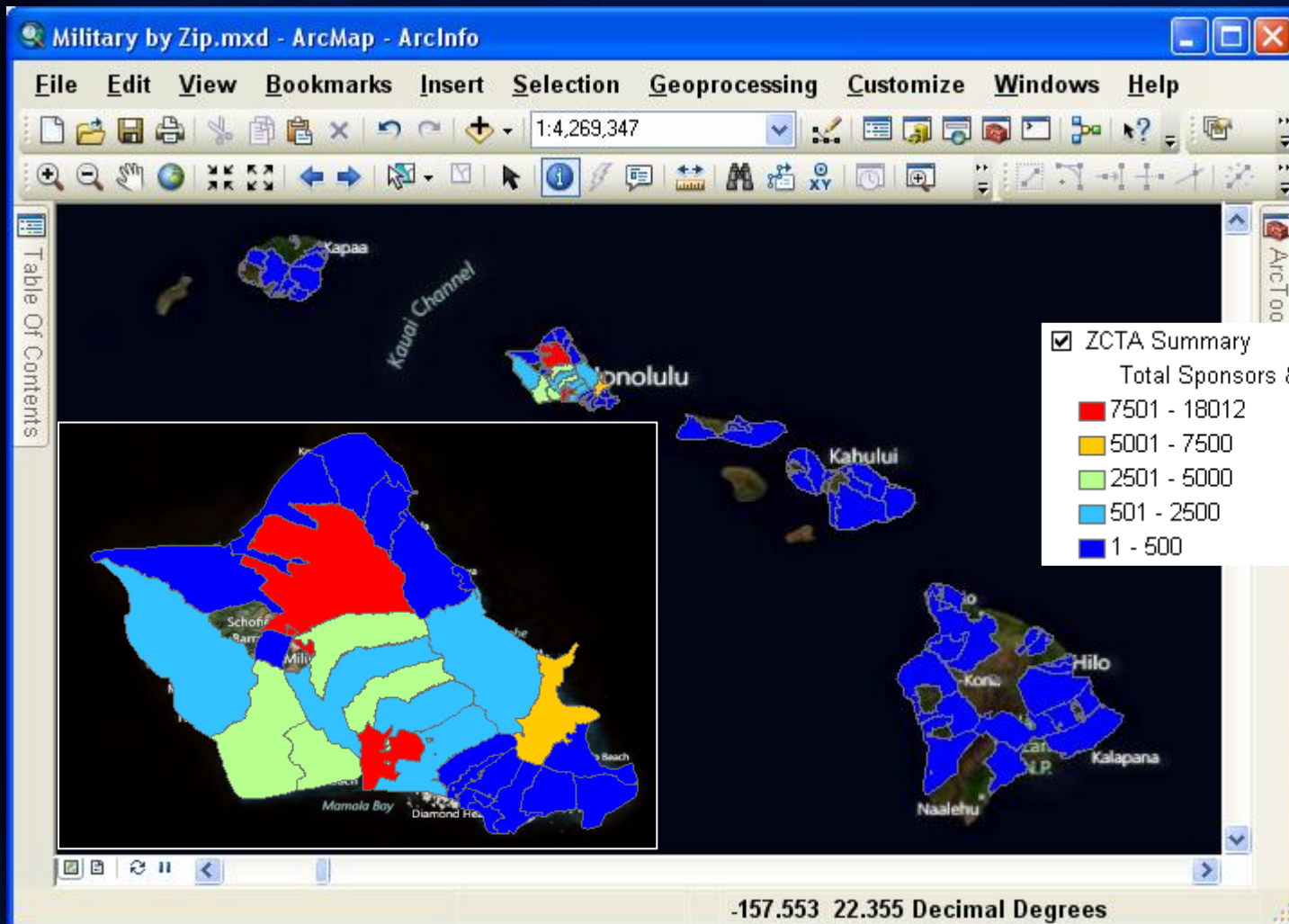
U.S. Census data for ZCTA 96860 shows a total population of 1,124.

U.S. Census data for ZCTA 96860 further shows that all 1,124 residents are living in group quarters.

There is a question whether dependents live in group quarters.

Permanent and Non-Permanent Military Residents

Data from DMDC shows sponsors and dependents spread statewide with the majority on Oahu, but does not distinguish between permanent and non-permanent residents.



Non-Permanent Student Residents

If extractions to the U.S. Census PL 94-171 census block counts are to be made for redistricting, data on the non-permanent populations to be extracted must also be known or estimated at the census block level.

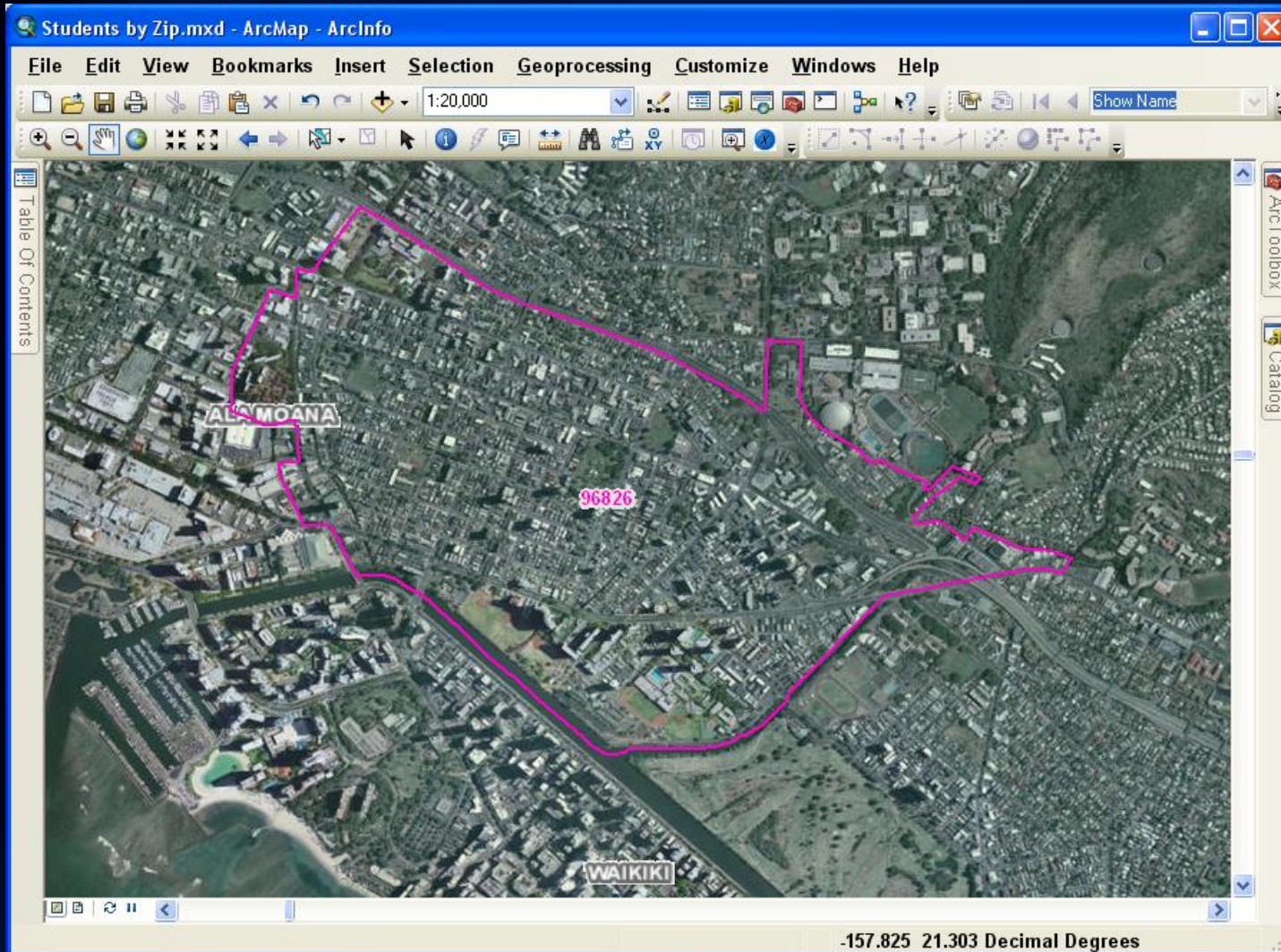
For privacy reasons, data is often only provided at a ZIP Code level.

A disaggregation model is applied to assign ZIP Code-level non-permanent populations to individual census blocks in proportion to the total population of each census block.

An example showing University of Hawaii non-resident student counts for ZIP Code 96826 being assigned to individual census blocks will help illustrate how this model works.

Non-Permanent Student Residents

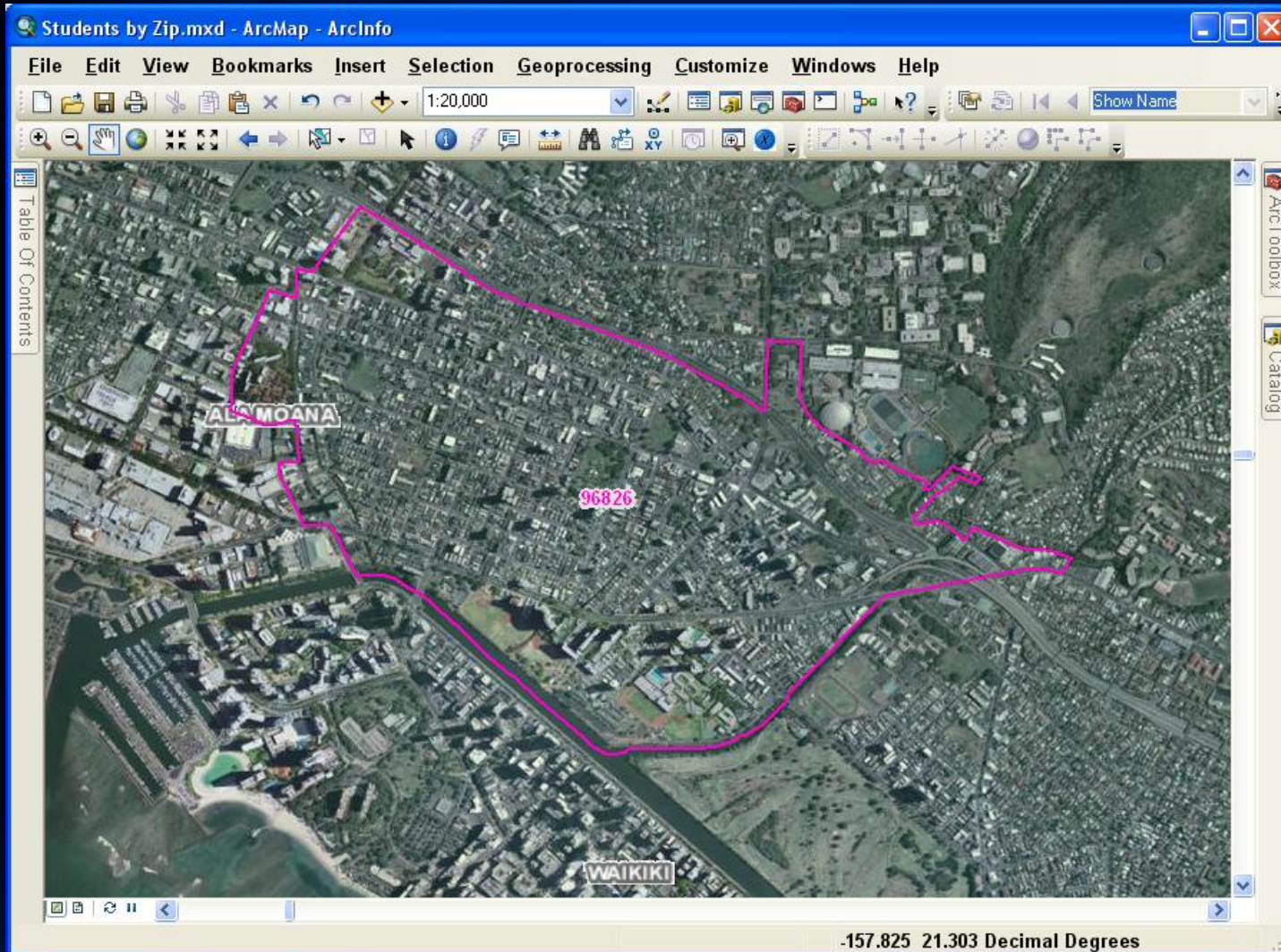
ZIP Code 96826 is just south of the University of Hawaii at Manoa campus.



ZIP Code 96826

Non-Permanent Student Residents

According to data received from the University of Hawaii,
715 non-permanent resident students live in ZIP Code 96826.

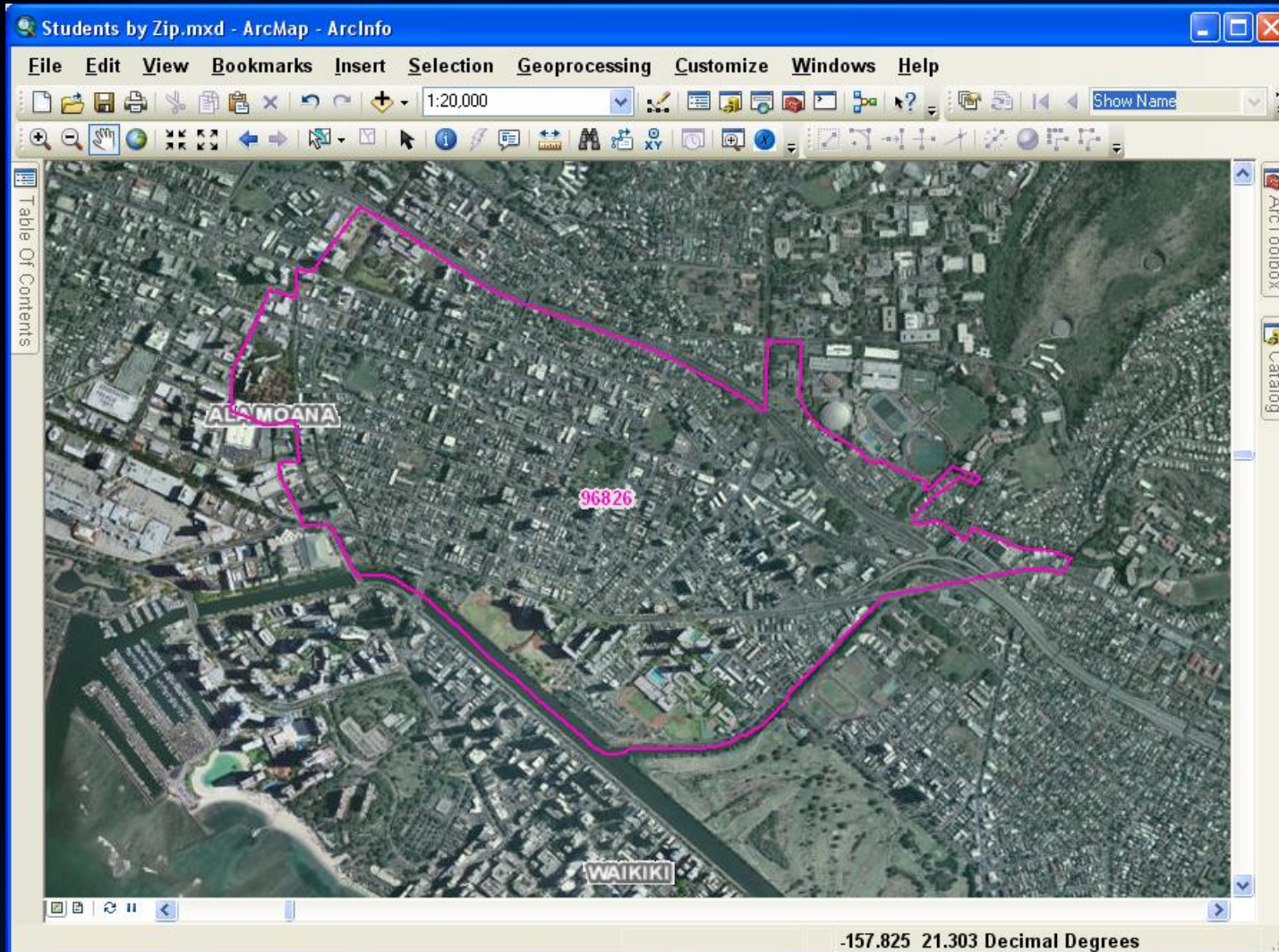


ZIP Code 96826

715 npr students

Non-Permanent Student Residents

According to the U.S. Census Bureau PL 94-171 data, 30,842 residents live in ZIP Code Tabulation Area (ZCTA) 96826.



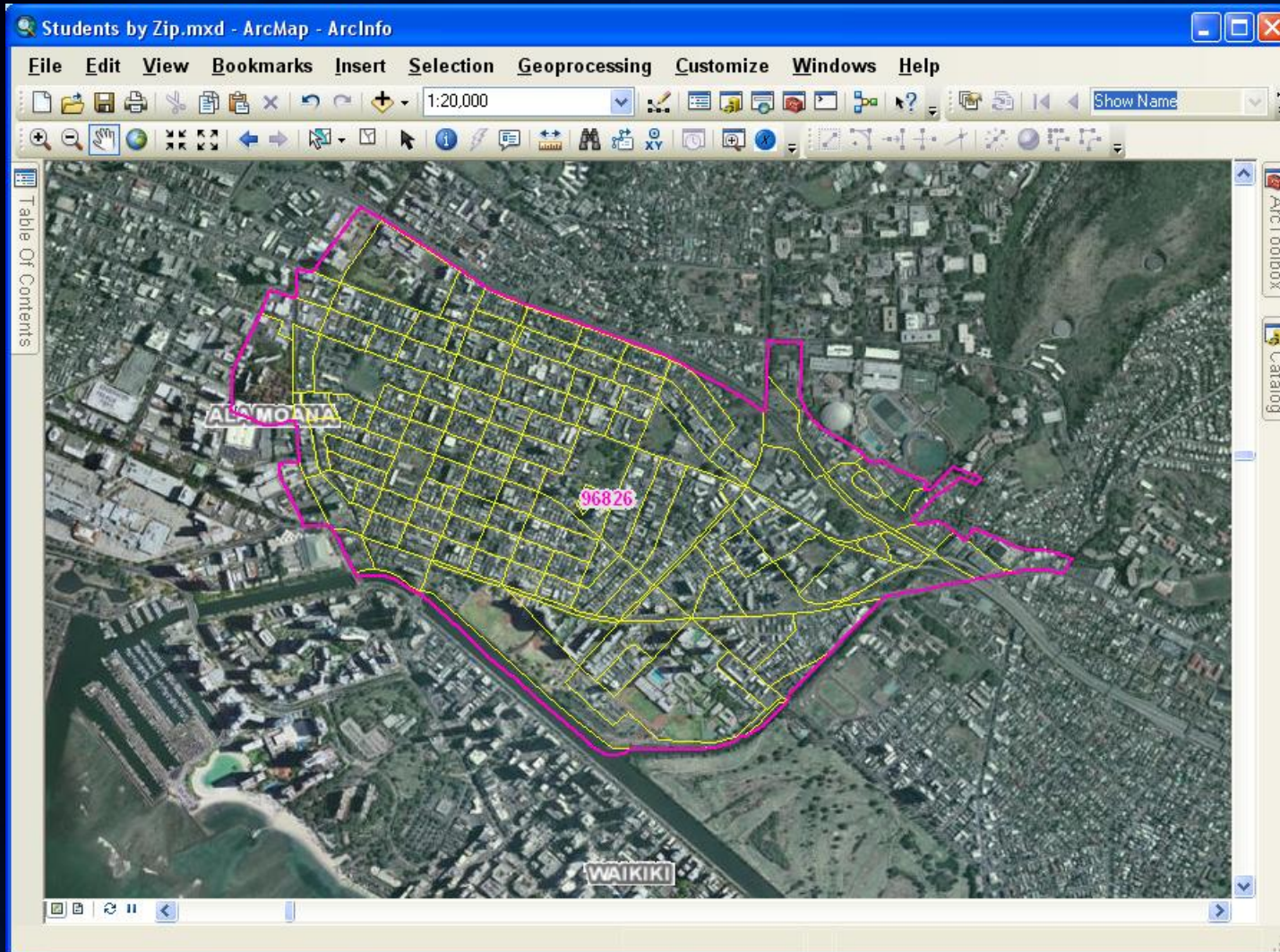
ZIP Code 96826

715 npr students

30,842 population

Non-Permanent Student Residents

These 30,842 residents are spread across 121 census blocks.



ZIP Code 96826

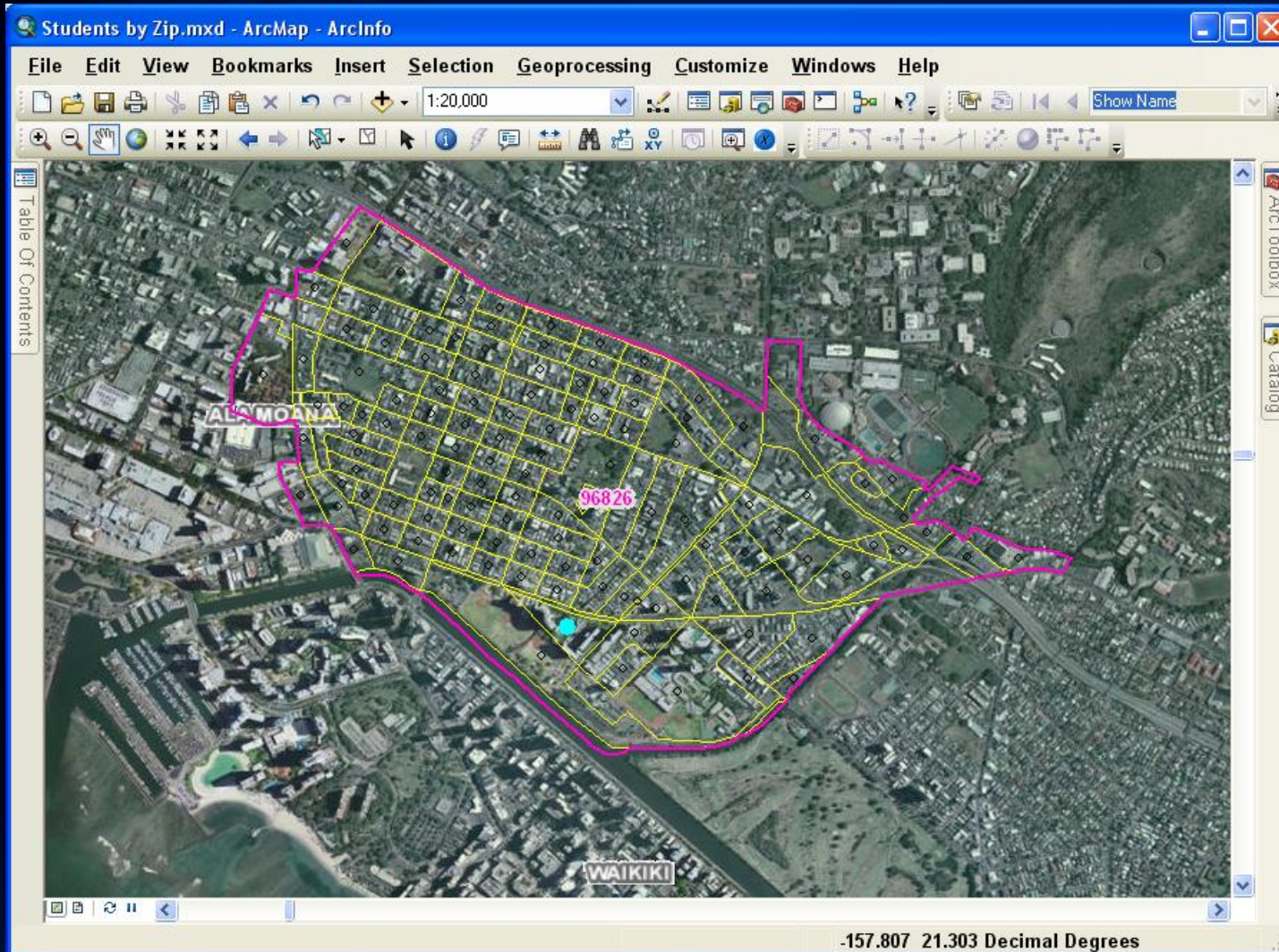
715 npr students

30,842 population

121 census blocks

Non-Permanent Student Residents

These 30,842 residents are spread across 121 census blocks with population.
The largest block population is 1,841.



ZIP Code 96826

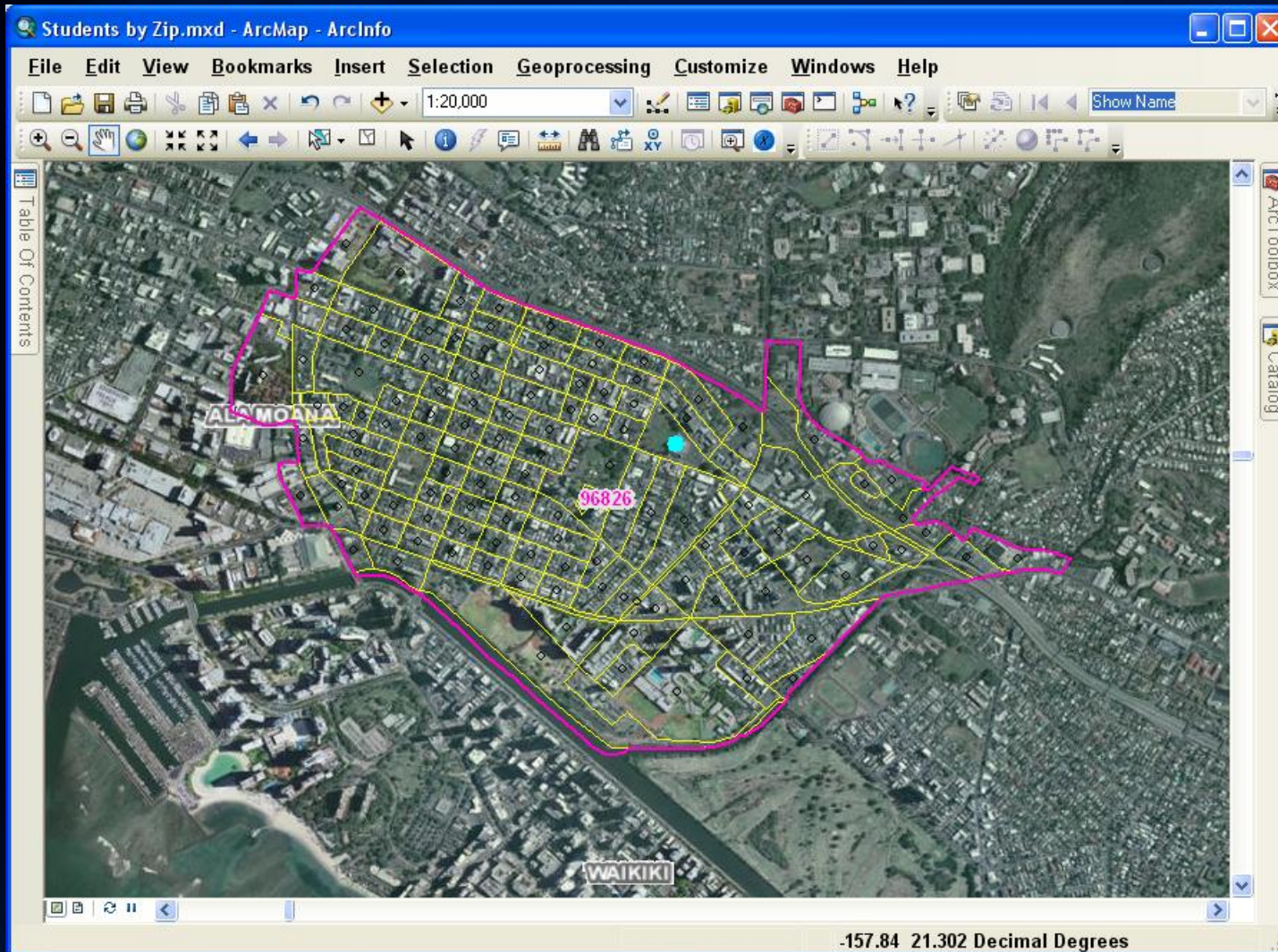
715 npr students

30,842 population

121 census blocks

Non-Permanent Student Residents

These 30,842 residents are spread across 121 census blocks with population.
The smallest block population is 2.



ZIP Code 96826

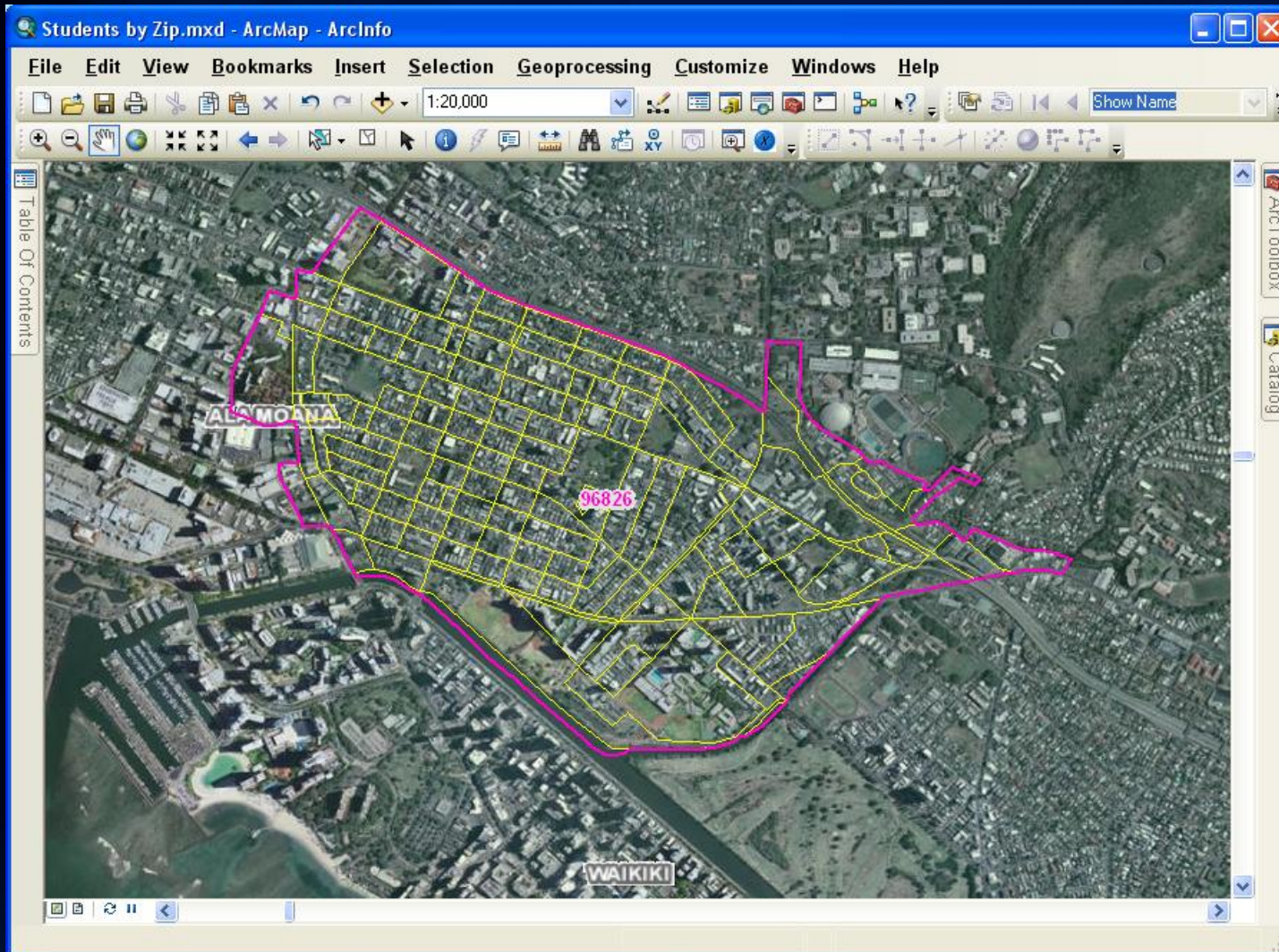
715 npr students

30,842 population

121 census blocks

Non-Permanent Student Residents

These 30,842 residents are spread across 121 census blocks with population.
How do we spread 715 non-permanent students across the 121 census blocks?



ZIP Code 96826

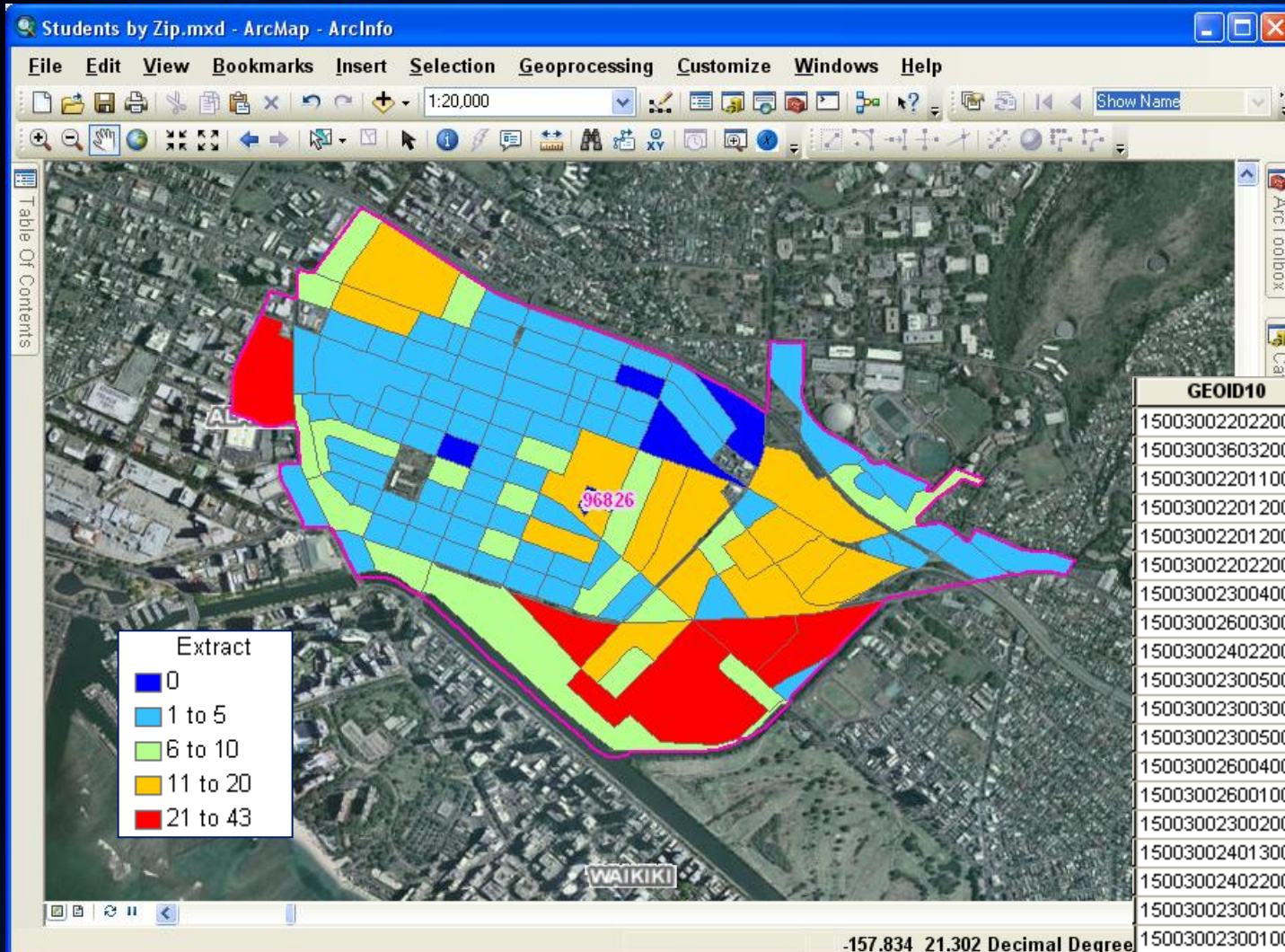
715 npr students

30,842 population

121 census blocks

Non-Permanent Student Residents

With 30,842 residents and 715 non-permanent residents, approximately 1 in every 43 residents is non-permanent, we use that proportion to extract from each census block.



ZIP Code 96826

715 npr students

30,842 population

121 census blocks

GEOID10	ZCTA	Pop2010	Extract	Adjusted
150030022022001	96826	1841	43	1798
150030036032001	96826	1791	41	1750
150030022011000	96826	1115	26	1089
150030022012000	96826	1111	26	1085
150030022012001	96826	970	22	948
150030022022005	96826	845	20	825
150030023004002	96826	733	17	716
150030026003002	96826	661	15	646
150030024022001	96826	649	15	634
150030023005000	96826	628	15	613
150030023003002	96826	609	14	595
150030023005001	96826	607	14	593
150030026004003	96826	573	13	560
150030026001000	96826	564	13	551
150030023002008	96826	510	12	498
150030024013002	96826	509	12	497
150030024022004	96826	503	12	491
150030023001000	96826	481	11	470
150030023001001	96826	464	11	453
150030035021006	96826	432	10	422
150030023004000	96826	417	10	407



Hawaii Reapportionment Commission

17 August 2011

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

Address:

State Capitol

415 South Beretania Street, Rm #445

Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

Fax: (808) 586-4105

Email: reapportionment@hawaii.gov

[Build Redistricting Plans Online! https://redistricting.hawaii.gov/](https://redistricting.hawaii.gov/)

✔ Create District Plans ✔ Share Plans ✔ Review Plans ✔ Submit Plans

Open

Edit

Review

Share

Submit



www.olelo.org/olelonet

Search Archives:



Hawaii Reapportionment Commission

19 September 2011

Commission Meeting

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

Address:

State Capitol
415 South Beretania Street, Rm #445
Honolulu, HI 96813

Telephone: (808) 586-4100

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<https://redistricting.hawaii.gov/>

- ✔ Create District Plans
- ✔ Share Plans
- ✔ Review Plans
- ✔ Submit Plans

Open

Edit

Review

Share

Submit

Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**
- **Commission Schedule**

Topics

- ➔ • **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**
- **Commission Schedule**

Plans Submitted by the Public

Open

Edit

Review

Share

Submit



Welcome to the Hawai'i Redistricting Online Application!

Hawai'i Redistricting Online assists the Hawai'i State Reapportionment Commission, State Reapportionment Advisory Councils, advocacy groups, and the general public in drawing legislative and congressional redistricting plans following the 2010 U.S. Census. This ArcGIS software platform and pertinent dataset components provide comprehensive features and functionality for plan management, visualization, editing, and community collaboration.

In establishing the boundaries of the districts, the Hawai'i Reapportionment Commission will give consideration to the following factors: (a) population deviation from ideal district targets (b) cohesiveness, contiguity, integrity, and compactness of territory, and (c) socio-economic interests of the districts.

Plans submitted by Advisory Councils or the public prior to July 26, 2011 will be reviewed by the Commission before their proposed plan is published. There will be time for the Commission to receive and review additional plans while the proposed plan is being reviewed in the public hearing phase. Plans submitted by Advisory Councils or the public on or after July 26, 2011 and prior to the last public hearing date (no later than September 16, 2011), will be reviewed by the Commission after the final plan is published.

HAWAII COUNTY COUNCIL NOTICE: You may use this application to create a plan for Hawai'i County Council, HOWEVER, you must follow the directions provided by the Hawai'i County Redistricting Commission for submitting plans. DO NOT USE THE "SUBMIT" BUTTON. The State of Hawai'i Reapportionment Commission is not responsible for Hawai'i County Council plans.

How to use this tool:



<https://redistricting.hawaii.gov/>

Plans Submitted by the Public

[Open](#)[Edit](#)[Review](#)[Share](#)[Submit](#)

14 public plans submitted by July 25th

Congress	1 plan
Honolulu Senate	2 plans
Honolulu House	2 plans
Hawaii Senate	7 plans
Hawaii House	2 plans

Plans Submitted by the Public

[Open](#)[Edit](#)[Review](#)[Share](#)[Submit](#)

310 accounts created

26 public plans submitted by September 18th

Congress 1 plan

Honolulu Senate 3 plans

Honolulu House 8 plans

Hawaii Senate 8 plans (3 plans received assume 4 Senate districts)

Hawaii House 5 plans

Kauai House 1 plan

Plan Proposed by the Commission on Aug 5, 2011

State

Congress



Hawaii

Senate



House



Maui

Senate



House



Kauai

Senate



House



Oahu

Senate



House



Completed 13 Public Hearings

186 attended
63 testified
51 emails and letters

Aug 30	West Oahu	6:00 pm	Kapolei High School Cafeteria
Aug 31	Central Maui	5:30 pm	Maui Waena Intermediate School Cafeteria
Sep 1	West Maui	5:30 pm	Lahaina Civic Center
Sep 2	Kauai	5:30 pm	Kauai Council Chamber
Sep 6	Windward Oahu	6:00 pm	Aikahi Elementary School Cafeteria
Sep 7	Honolulu	6:00 pm	State Capitol Auditorium
Sep 8	Central Oahu	6:00 pm	Mililani High School Cafeteria
Sep 9	Lanai	5:00 pm	Lanai High School
Sep 12	Molokai	5:00 pm	Kaunakakai School Cafeteria
Sep 13	East Hawaii	5:00 pm	Hilo Council Chamber
Sep 14	West Hawaii	5:00 pm	Kona Council Chamber
Sep 15	Leeward Oahu	6:00 pm	Waipahu High School Cafeteria
Sep 16	East Oahu	6:00 pm	Kalani High School Cafeteria

Reapportionment and Redistricting

Reapportionment and Redistricting in Hawaii County
11 April 2011

☆ 1

One Person, One Vote equal representation

☆ 2

Background - U.S. Constitution

Article I, Section 2, Clause 3

- Representatives shall be apportioned among the several States, according to their whole Number, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and including Indians not taxed, three fifths of all other Persons.

1791 Amendment, Section 2

- Representatives shall be apportioned among the several States, according to their respective Numbers, counting the whole number of persons in each State, including Indians, not taxed.

1842 Apportionment Act

- In 1842, it was determined that there were no longer any American Indians who should be counted as "not taxed".

☆ 3

Background - U.S. Congress

- House
- 100 members, two from each state
- House apportionment is each state's
- House of Representatives
- 100 members, apportioned among the states based on population
- Every state gets at least one member
- Representatives from each state are called
- States with the fewest population get more members
- California 55, Texas 36, New York 27, Florida 27

☆ 4

Background - U.S. Census

Census, March, PI 91 011 week

☆ 5

Background - U.S. Census

Census, March, PI 91 011 week

☆ 6

Background - U.S. Census

Census, March, PI 91 011 week

☆ 7

Background - U.S. Census

Shows Census of Population for the United States: 1790 to 2000

☆ 8

Redistricting

- Ballot
- Compas

☆ 9

Redistricting

- Ballot
- Compas
- Confiras
- Warrant body
- Warrant body
- Warrant body

☆ 10

Redistricting

- Ballot
- Compas
- Confiras
- Residence zone
- Warrant body
- Warrant body
- Warrant body
- Warrant body
- Warrant body

"whisk practicable"

☆ 11

Redistricting Hawaii County. County

District	Population	Area	Population Density
1	10,000	100	100
2	10,000	100	100
3	10,000	100	100

☆ 12

<http://hawaii.gov/elections/reapportionment>

U.S. Constitution



- Article 1, Section 2, Clause 3
 - Representatives “shall be **apportioned among the several States** which may be included within this Union, according to their respective Numbers, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and excluding Indians not taxed, three fifths of all other Persons”.
- 14th Amendment, Section 2
 - Representatives shall be apportioned among the several States according to their respective numbers, counting the whole number of persons in each State, excluding Indians not taxed.
- 1940 Attorney General Opinion
 - In 1940, it was determined that there were no longer any American Indians who should be classed as "not taxed ".



631

An Enumeration of the Inhabitants of the town of <i>Worthington</i>						<i>Worthington</i> continued.						<i>Worthington</i> continued.												
Names of Heads of Families.	Free white Males of 16 years old, and upwards.		Free white Males, under 16 years.		Free white Females.	All other free Persons.	Slaves.	Names of Heads of Families.	Free white Males of 16 years and upwards.		Free white Males, under 16 years.		Free white Females.	All other free Persons.	Slaves.	Names of Heads of Families.	Free white Males of 16 years and upwards.		Free white Males, under 16 years.		Free white Females.	All other free Persons.	Slaves.	
	Free white Males of 16 years old, and upwards.	Free white Males, under 16 years.	Free white Males, under 16 years.	Free white Females.					Free white Males of 16 years and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.					Free white Males of 16 years and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.				Free white Males of 16 years and upwards.
								<i>Sylvanus Blackman</i>	2	1						<i>Benjamin Gann</i>	1	1	4					
								<i>James Blackman</i>	1	1						<i>Isaac Gann</i>	1		3					
								<i>Eli Medcoll</i>	3	6						<i>Isaac Cushing</i>	1	1	3					
								<i>Seth White Sylvester</i>	2	4						<i>Abel Cushing</i>	1	1	1					
								<i>Jonathan S. Gardner</i>	1	4						<i>Daniel Spurgeon</i>	1		3					
								<i>Levi Gales</i>	1	2	2					<i>Samuel Tower</i>	2	2	2					
								<i>Stephen Gales</i>	1	2	4					<i>Samuel Tower, junr</i>	1	1	1					
								<i>Joseph King</i>	3	4	4					<i>James Rejs</i>	1		1					
								<i>Elizabeth King</i>	1	3	1					<i>Jonathan Dallah</i>	1	1	1					
								<i>Jonathan King</i>	1		4					<i>Thomas Hall</i>	3	4	7					
								<i>William Higgens</i>	1	4	3					<i>Amasa Rejs</i>	1	2	2					
								<i>Pinus Medcoll</i>	2		2					<i>Wm. Barber</i>	1	4	4					
								<i>William Snow</i>	1	2	3					<i>Editha Phillips</i>	1	4	3					
								<i>Thomas Leonard</i>	1	2	2					<i>Samiah Phillips</i>	1	1	2					
								<i>Joseph Marsh</i>	2	3	4					<i>Isaac Spalding</i>	2	4	2					
								<i>Dr. Jonathan Brewster</i>	4		2	1				<i>Wm. Milah Brown</i>	1	1	1					
								<i>Ed. Ebenezer Hobbs</i>	2	2	4					<i>Roger Davy</i>	1		1					
								<i>Jonathan Brewster</i>	1	1	3					<i>Joseph Davy</i>	1		5					
								<i>Alexander Bryant</i>	1	2	2					<i>Wm. Willis</i>	1	2	3					

U.S. Census



United States
Census
2010

An Enumeration of the Inhabitants of the town of *Worthington*

Names of Heads of Families.	Free white Males of 16 years old, and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.	Slaves.
[Joseph Prentice]	2	2	2		
[Ababel Prentice]	1	1	2		
Jonathan Prentice	3	3	5		
James Keeny	1		1		
[Nathanil Collins]	1	1	3		

[Isaac Herrick]	2	4	4			Thomas Leonard	1	2	2		
[Thomas Wilber]	1	4	2			Joseph Marsh	2	3	4		
[Isa Benjamin]	1		2			Dr Jonathan Brewster	4		2		1
[Roger & Benjamin]	1	2	2			Edw Emma Hobbs	2	2	4		
Knaben Kitchcock	1		2			Jonathan Brewster	1	1	3		
John Partridge	2	2	2			Alexander Grant	1	2	2		

Worthington continued. 631

Names.	Names of Heads of Families.	Free white Males of 16 years and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.	Slaves.
	Benjamin Gann	1	1	4		
	Abel Barnes	1		3		
	Isaac Cushing	1	1	3		
	Abel Cushing	1	1	1		
	Daniel Spangue	1		3		
	Samuel Tower	2	2	2		
	Samuel Tower, jun	1	1	1		
	James Rejs	1		1		
	Jonathan Bullak	1	1	1		
	Thomas Hall	3	4	7		
	Amasa Rejs	1	2	2		
	Wmra Dunbar	1	4	4		
	Editha Phillips	1	4	3		
	Samiah Phillips	1	1	2		
	Cap dea Spalding	2	4	2		
	Wm. Milah Brown	1	1	1		
	Roger Davoy	1		1		
	Joseph Davoy	1		5		
	Wmra Willis	1	2	3		

U.S. Census



1790 U.S. Census

White males 16+	20%
White males <16	20%
White females	40%
All other	2%
Slaves	18%

An Enumeration of the Inhabitants of the town of <i>Worshington</i>					
Names of Heads of Families.	Free white Males of 16 years old, and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.	Slaves.
[Joseph Prentice]	2	2	2		
[Ababel Prentice]	1	1	2		
[Jonathan Prentice]	3	3	5		
James Henry	1		1		
[Nathaniel Collins]	1	1	3		

U.S. Census



1790 U.S. Census

White males 16+	20%
White males <16	20%
White females	40%
All other	2%
Slaves	18%

Q: Who could vote?

An Enumeration of the Inhabitants of the town of <i>Worshington</i>					
Names of Heads of Families.	Free white Males of 16 years old, and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.	Slaves.
[Joseph Prentice]	2	2	2		
[Ababel Prentice]	1	1	2		
Jonathan Prentice	3	3	5		
James Henry	1		1		
[Nathaniel Collins]	1	1	3		

U.S. Census



1790 U.S. Census

White males 16+	20%
White males <16	20%
White females	40%
All other	2%
Slaves	18%

Q: Who could vote?

A: White male property owners

An Enumeration of the Inhabitants of the town of <i>Worshington</i>					
Names of Heads of Families.	Free white Males of 16 years old, and upwards.	Free white Males, under 16 years.	Free white Females.	All other free Persons.	Slaves.
[Joseph Prentice]	2	2	2		
[Ababel Prentice]	1	1	2		
Jonathan Prentice	3	3	5		
James Henry	1		1		
[Nathaniel Collins]	1	1	3		

U.S. Census



Who was counted in Hawaii by the US Census?

A screenshot of the 2010 Census website. The top navigation bar is blue with white text for "2010 Census Home", "Press & Media", and "Partners". A search bar is on the right. Below this is a secondary navigation bar with "ABOUT", "DATA", "BLOG", "CONNECT", and "MULTIMEDIA". The main content area has a left sidebar with an "About" section containing links like "What is the Census?", "Why It's Important", and "How We Count America". The main content area features the heading "How We Count America" and the sub-heading "The census numbers tell us who we are and what we need." Below this are links for "Print", "Share this page", and "AAA". A horizontal banner image shows a collage of four photos: a suburban house, a graduate in a cap and gown, a man and woman smiling, and a busy city street with an "OPEN" sign.

U.S. Census



Who was counted in Hawaii by the US Census?

United States
Census 2010

This is the official form for
It is quick and easy, and y

Use a blue or black pen.

Start here

The Census must count every person living in the United States on April 1, 2010.

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The Census Bureau also conducts counts in institutions and other places, so:

- Do not count anyone living away either at college or in the Armed Forces.
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The Census must also include people without a permanent place to stay, so:

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1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?

Number of people =

Where You Are Counted Is Important

The Concept Of Usual Residence

The Residence Rule

People Away From Their Usual Residence On Census Day

Visitors On Census Day

People Who Live In More Than One Place

People Without A Usual Residence

Students

Movers On Census Day

People Who Are Born Or Die On Census Day

Nonrelatives Of The Householder

U.S. Military Personnel

Merchant Marine Personnel On U.S. Flag Maritime/Merchant Vessels

Foreign Citizens In The U.S.

U.S. Citizens And Their Dependents Living Outside The U.S.

People In Correctional Facilities For Adults

People In Group Homes And Residential Treatment Centers For Adults

People In Health Care Facilities

People In Juvenile Facilities

People In Residential School-Related Facilities

People In Shelters

People In Transitory Locations (e.g., RV parks, campgrounds, marinas)

People In Religious-Related Residential Facilities

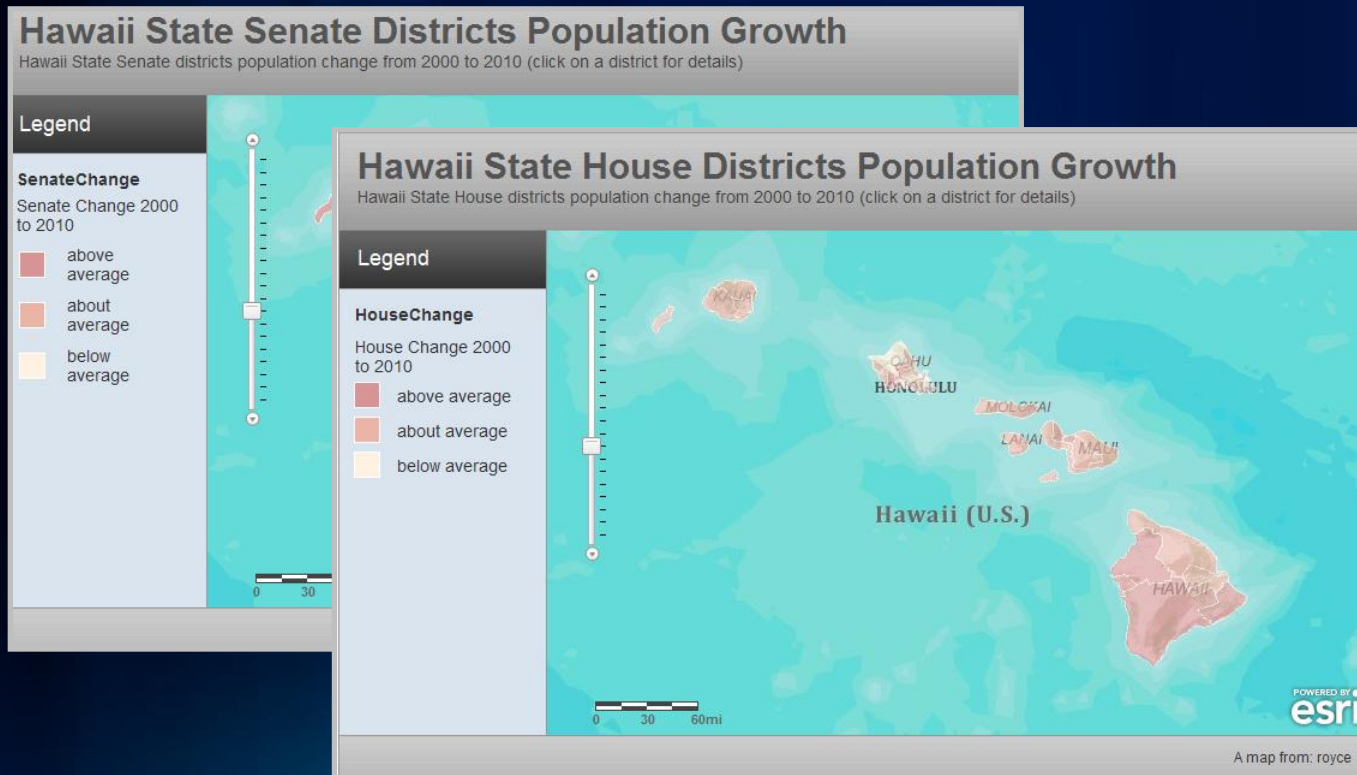
State Population Base

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

State	1,360,301	12%	+148,764
Oahu	953,207	9%	+77,051
Hawaii	185,079	24%	+36,402
Maui	154,924	21%	+26,683
Kauai	67,091	15%	+8,628



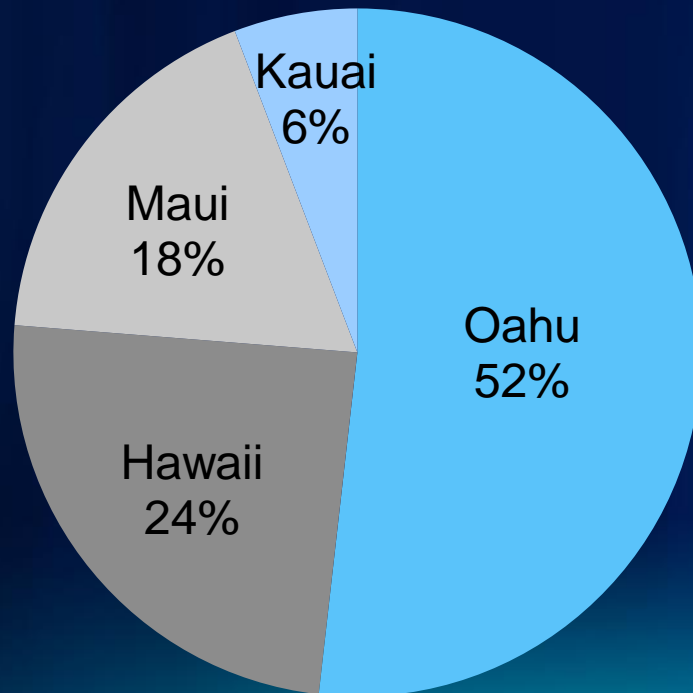
- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Reapportionment Among Basic Island Units

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

State	1,360,301	12%	+148,764	
Oahu	953,207	9%	+77,051	(52%)
Hawaii	185,079	24%	+36,402	(24%)
Maui	154,924	21%	+26,683	(18%)
Kauai	67,091	15%	+8,628	(6%)



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Reapportionment Among Basic Island Units

Apportion Representatives

Hawaii Constitution Article IV Section 4

“The commission shall allocate the total number of members of each house of the state legislature being reapportioned among the four basic island units ... using the **total number of permanent residents** in each of the basic island units and computed by the method known as the **method of equal proportions** ...”

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]

“This method... serves the rational state policies articulated in the Hawaii State Constitution, which recognizes the geographic insularity and unique political and socio-economic identities of the basic island units.”

[State of Hawaii 2001 Reapportionment Commission:
Final Report and Reapportionment Plan, Dec 2001]



- 1) **population base**
- 2) **apportion representatives** (reapportionment)
- 3) **draw district boundaries** (redistricting)



Reapportionment Among Basic Island Units

U.S. Census Bureau

People | Business | Geography | Newsroom | Subjects A to Z | Search@Census

Congressional Apportionment

[Census.gov](#) | [People and Households](#) | [Congressional Apportionment Main](#) | [About Apportionment](#) | [Computing Apportionment](#)

[Main](#) | [About Apportionment](#) | [Data](#) | [Related Sites](#) | [Contact Us](#)

In This Section

- [About Congressional Apportionment](#)
- [Why It's Done](#)
- [How Long It's Been Done](#)
- [Who's Counted](#)
- [How It's Calculated](#)
- [Computing Apportionment](#)
- [Delivering the Numbers](#)
- [Historical Perspective](#)
- [Frequently Asked Questions](#)

Computing Apportionment

Article 1, Section 2, of the United States Constitution states:

"Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers...The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten Years, in such Manner as they shall by Law direct."

Therein lies the primary mandate of the U.S. census, apportionment of the House of Representatives. Since that first census in 1790, five methods of apportionment have been used. The current method used, the Method of Equal Proportions, was adopted by congress in 1941 following the census of 1940. This method assigns seats in the House of Representatives according to a "priority" value. The priority value is determined by multiplying the population of a state by a "multiplier."

For example, following Census 2000, each of the 50 states was given one seat out of the current total of 435. The next, or 51st seat, went to the state with the highest priority value and thus became that state's second seat. This continued until all 435 seats had been assigned to a state. This is how it is done.

EQUAL PROPORTIONS METHOD

P - represents a state's total population

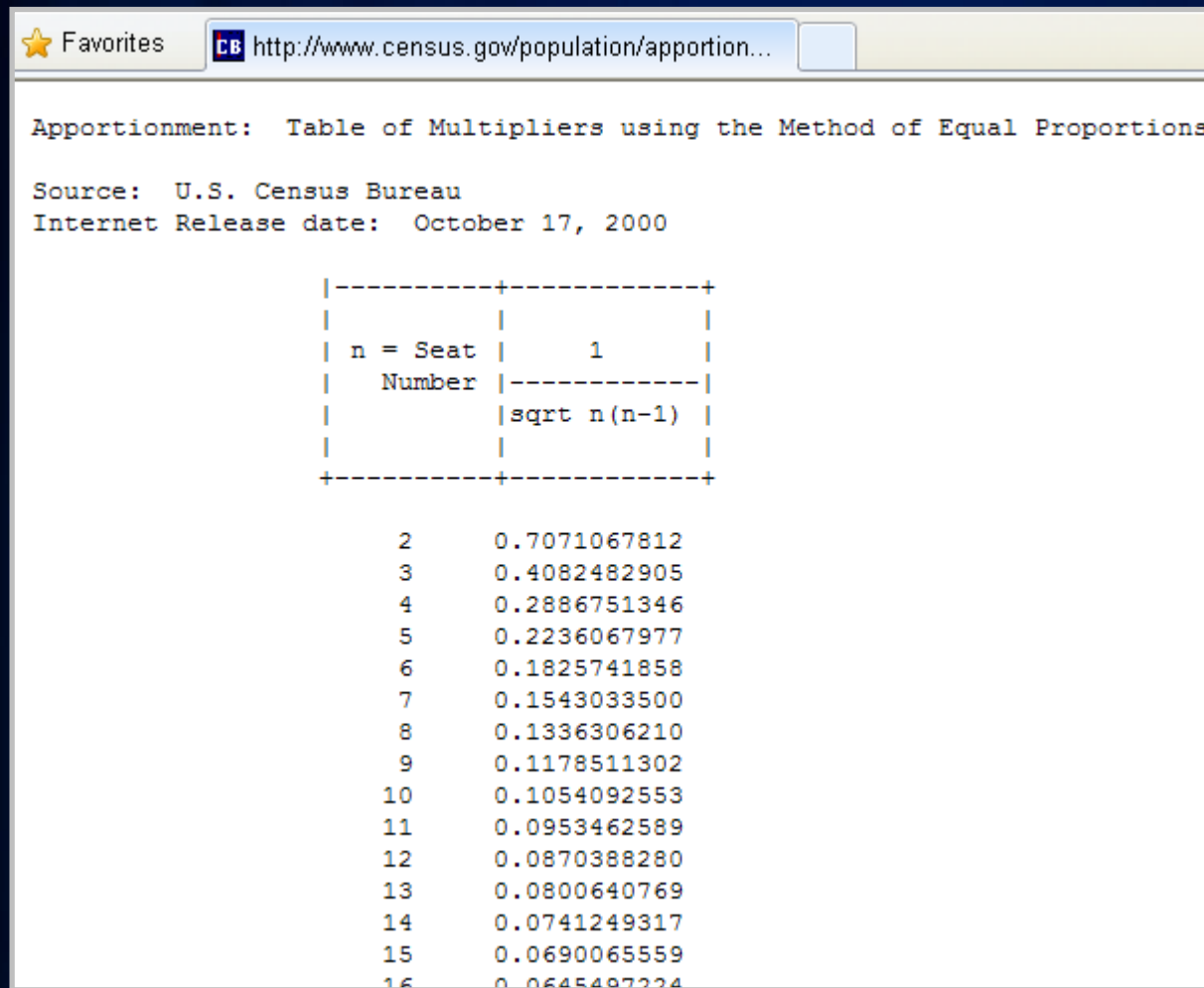
n - represents the number of seats a state would have if it gained a seat (because all states automatically received one seat the next seat gained is "seat two," and the next "seat three," and the next "seat four," and so on.)

The multiplier equals:

$$1/\sqrt{n(n-1)}$$

<http://www.census.gov/population/apportionment/about/computing.html>

Reapportionment Among Basic Island Units



★ Favorites CB [http://www.census.gov/population/apportionment/...](http://www.census.gov/population/apportionment/)

Apportionment: Table of Multipliers using the Method of Equal Proportions

Source: U.S. Census Bureau
Internet Release date: October 17, 2000

n = Seat Number	Multiplier
2	0.7071067812
3	0.4082482905
4	0.2886751346
5	0.2236067977
6	0.1825741858
7	0.1543033500
8	0.1336306210
9	0.1178511302
10	0.1054092553
11	0.0953462589
12	0.0870388280
13	0.0800640769
14	0.0741249317
15	0.0690065559
16	0.0645497224

<http://www.census.gov/population/apportionment/data/files/atable.txt>

Reapportionment Among Basic Island Units

seats	multiplier	Hawaii	#	S	H	Maui	#	S	H	Kauai	#	S	H	Oahu	#	S	H
1	na	185079	1	1	1	154924	1	1	1	67091	1	1	1	953207	1	1	1
2	0.707107	130871	11	1	1	109548	14	1	1	47441	29	1	1	674019	5	1	1
3	0.408248	75558	19	1	1	63247	22	1	1	27390	51	1	1	389145	6	1	1
4	0.288675	53428	26	1	1	44723	31	1	1	19368				275167	7	1	1
5	0.223607	41385	34	1	1	34642	40	1	1					213144	8	1	1
6	0.182574	33791	41	1	1	28285	49	1	1					174031	9	1	1
7	0.154303	28558	47	1	1	23905								147083	10	1	1
8	0.133631	24732												127378	12	1	1
9	0.117851													112337	13	1	1
10	0.105409	total seats	3	7		total seats	3	6		total seats	1	3		100477	15	1	1
11	0.095346													90885	16	1	1
12	0.087039													82966	17	1	1
13	0.080064													76318	18	1	1
14	0.074125													70656	20	1	1
15	0.069007													65778	21	1	1
16	0.064550													61529	23	1	1
17	0.060634													57797	24	1	1
18	0.057166													54491	25	1	1
19	0.054074													51544	27	1	1
20	0.051299													48898	28	1	1
21	0.048795													46512	30	1	1
22	0.046524													44347	32	1	1
23	0.044455													42375	33	1	1
24	0.042563													40571	35	1	1
25	0.040825													38915	36	1	1
26	0.039223													37388	37	1	1
27	0.037743													35976	38	1	1
28	0.036370													34668	39	1	1
29	0.035093													33451	42	1	1
30	0.033903													32317	43	1	1
31	0.032791													31257	44	1	1
32	0.031750													30264	45	1	1
33	0.030773													29333	46	1	1
34	0.029854													28457	48	1	1
35	0.028989													27632	50	1	1
														26854			
														total seats	18	35	

Senate Seats by Basic Island Unit

State	1,360,301	25
Oahu	953,207	18
Hawaii	185,079	3
Maui	154,924	3
Kauai	67,091	1

House Seats by Basic Island Unit

State	1,360,301	51
Oahu	953,207	35
Hawaii	185,079	7
Maui	154,924	6
Kauai	67,091	3

Reapportionment Within Basic Island Units

Redraw District Lines

Hawaii Constitution Article IV Section 6

“Upon the determination of the total number of members of each house of the state legislature to which each basic island unit is entitled, the commission shall... **redraw district lines** where necessary in such manner that for each house **the average number of permanent residents...** in each district is nearly equal to the average for the basic island unit as practicable.

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]



- 1) **population base**
- 2) **apportion representatives**
(reapportionment)
- 3) **draw district boundaries**
(redistricting)



Redistricting Within Basic Island Units

Ten Year Population Growth by Basic Island Unit (U.S. Census PL 94-171 data)

<u>State</u>	<u>1,360,301</u>	<u>12%</u>	<u>+148,764</u>	
Oahu	953,207	9%	+77,051	(52%)
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Maui	154,924	21%	+26,683	(18%)
Kauai	67,091	15%	+8,628	(6%)

Senate Seats by Basic Island Unit

<u>State</u>	<u>1,360,301</u>	<u>25</u>	<u>target</u>
Oahu	953,207	18	52,956
Hawaii	185,079	3	61,693
Maui	154,924	3	51,641
Kauai	67,091	1	67,091

House Seats by Basic Island Unit

<u>State</u>	<u>1,360,301</u>	<u>51</u>	<u>target</u>
Oahu	953,207	35	27,234
Hawaii	185,079	7	26,440
Maui	154,924	6	25,821
Kauai	67,091	3	22,364



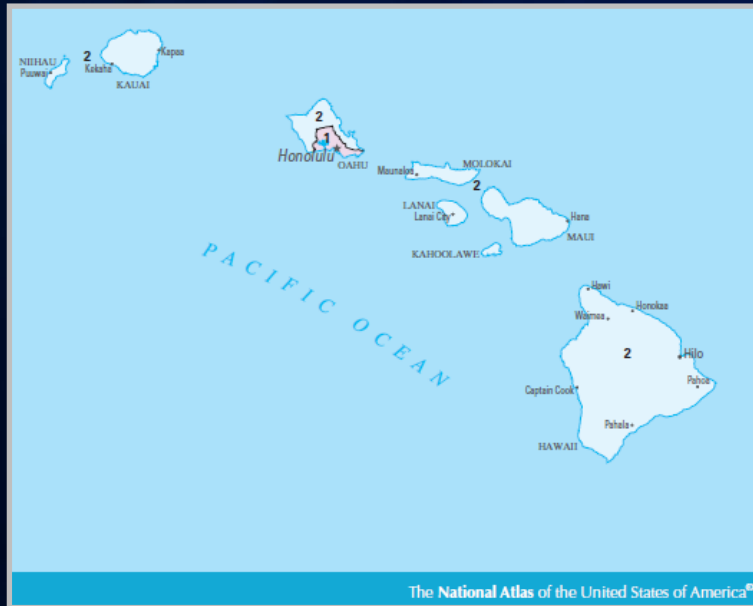
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Congress

State 1,360,301 2

target

680,151



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Plan Proposed by the Commission on Aug 5, 2011

State

Congress



Hawaii

Senate



House



Maui

Senate



House



Kauai

Senate



House



Oahu

Senate



House



Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - ➔ - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**
- **Commission Schedule**

Extraction of Non-Permanent Residents

Who was counted in Hawaii by the US Census?

United States
Census 2010

This is the official form for
It is quick and easy, and y

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1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?

Number of people =

Where You Are Counted Is Important

The Concept Of Usual Residence

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People Away From Their Usual Residence On Census Day

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People In Correctional Facilities For Adults

People In Group Homes And Residential Treatment Centers For Adults

People In Health Care Facilities

People In Juvenile Facilities

People In Residential School-Related Facilities

People In Shelters

People In Transitory Locations (e.g., RV parks, campgrounds, marinas)

People In Religious-Related Residential Facilities

Extraction of Non-Permanent Residents

- Three things we need to know:

- **LOCATION:**

Where is the non-permanent resident's usual residence

- census block = more certain
- ZIP code = less certain

- **TIMELINESS :**

Was that their usual residence on April 1, 2010?

- Date of data extract
- Lag in reporting

- **NON-PERMANENT STATUS:**


- Is the person a non-permanent resident?
 - home, taxes, voting, community, ...

Extraction of Non-Permanent Residents

- August 17, 2001 Commission Meeting – DMDC Data

The image displays a grid of 22 numbered presentation slides, each containing a map and text. The slides are arranged in four rows: the first row has 6 slides (1-6), the second row has 6 slides (7-12), the third row has 6 slides (13-18), and the fourth row has 4 slides (19-22). Slides 1 and 22 feature the 'Hawaii Reapportionment Commission 17 August 2011' logo. Slides 13, 14, 15, 16, 17, 18, 19, and 20 focus on 'Non-Permanent Student Residents'. Slides 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20 show maps with colored overlays (red, green, blue, yellow) indicating specific areas. Slides 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20 also contain text boxes with information related to the maps. Slides 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20 are titled 'Permanent and Non-Permanent Military Residents'. Slides 13, 14, 15, 16, 17, 18, 19, and 20 are titled 'Non-Permanent Student Residents'. Slides 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20 also contain a small 'VOTE' logo in the top right corner.

Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 -  - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**
- **Commission Schedule**

Permanent and Non-Permanent Military Residents

The non-permanent resident extraction model used in 1991 and 2001 relied on receiving location specific (address or ZIP Code) residence information for the specific non-permanent residents to be extracted.

In 2011, the data received from the Defense Manpower Data Center (DMDC) does not provide residence information for military sponsors nor does it provide specific breakdowns of permanent and non-permanent residents by location.

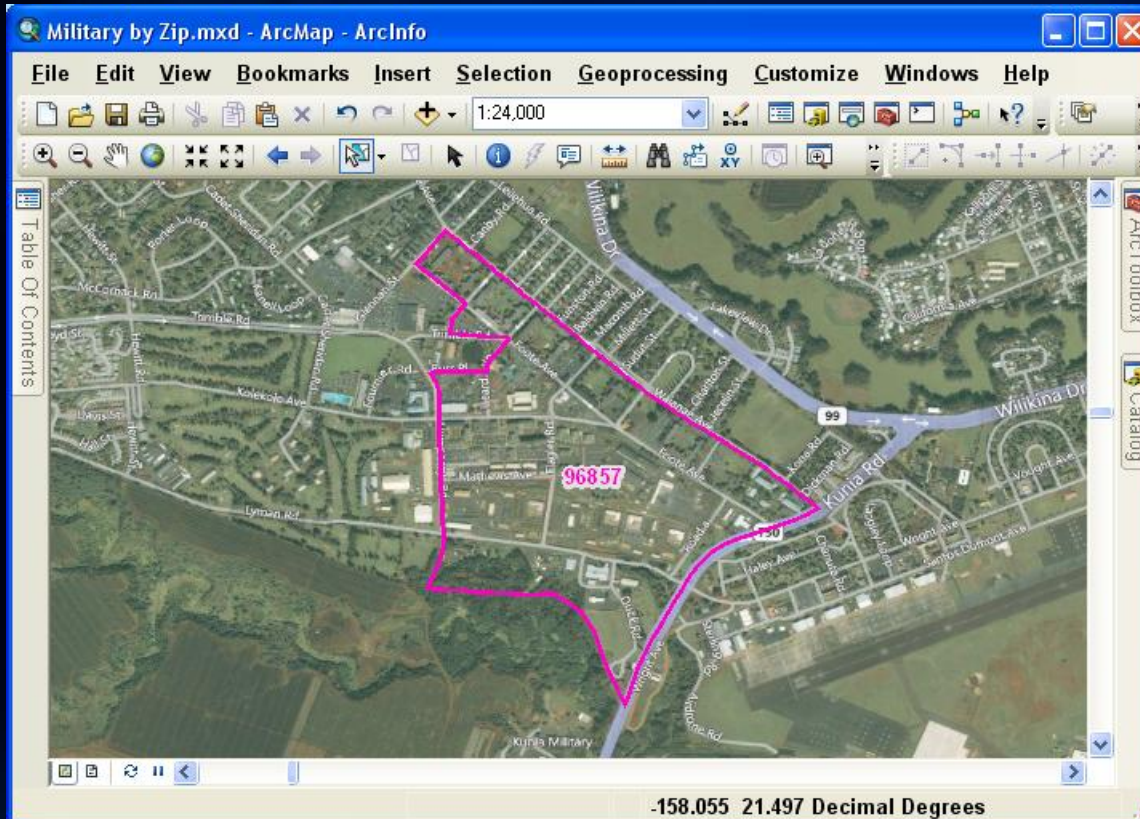
This lack of specific data from DMDC does not allow the model used previously to be used this time.

Examples from Schofield Barracks, Marine Corps Base Hawaii and Joint Base Pearl Harbor will help illustrate.

Permanent and Non-Permanent Military Residents

Data from DMDC for ZIP Code 96857 shows 17,004 sponsors and 968 dependents, for a total of 18,012 military residents.

DMDC does not indicate what portion of the 18,012 are permanent residents and what portion are non-permanent residents.



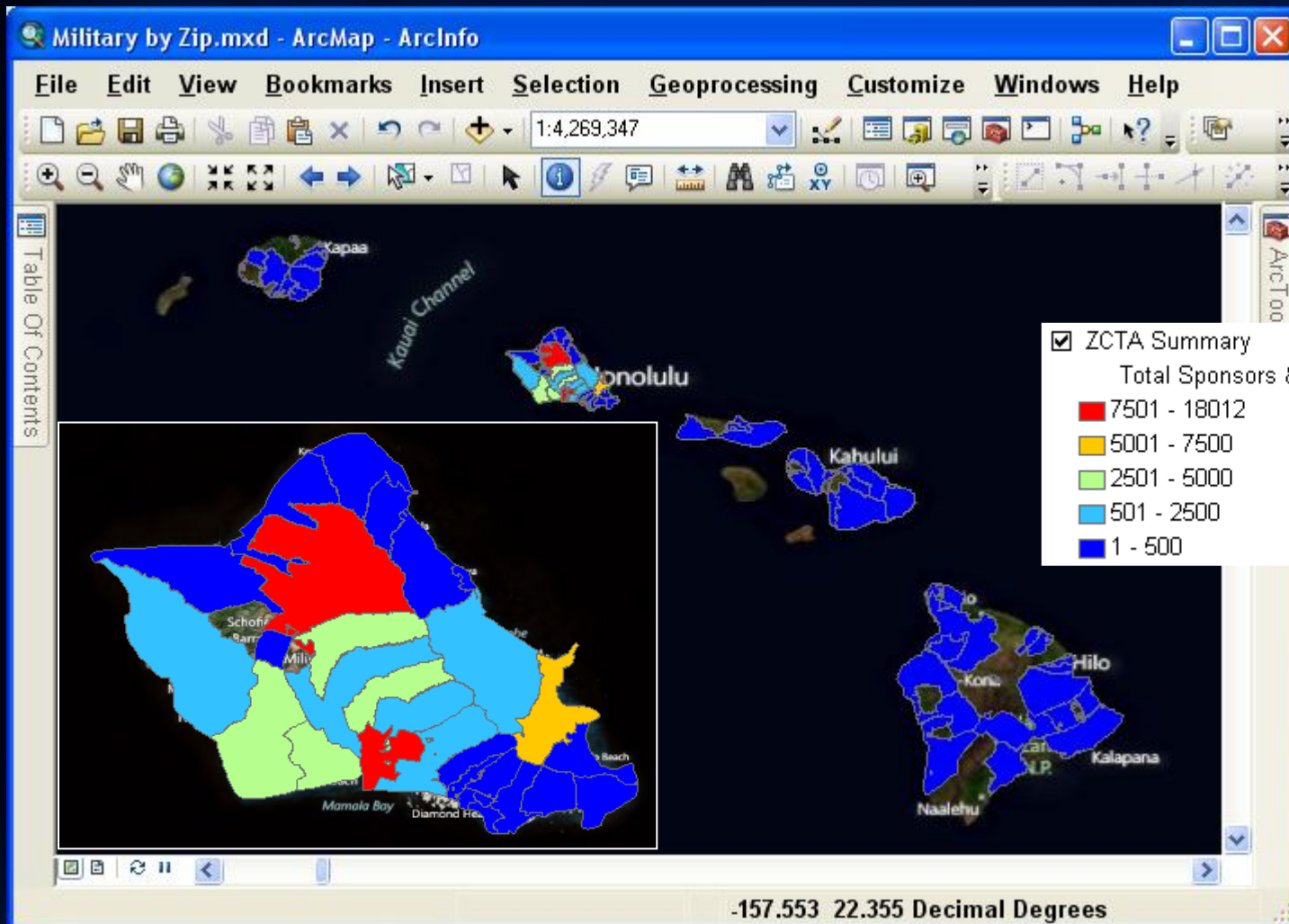
U.S. Census data for ZCTA 96857 shows a total population of 2,522.

DMDC only reports sponsor duty ZIP Codes and clearly 17,004 sponsors do not live in 96857.

We do not know where these sponsors live nor where they would have been counted by the U.S. Census.

Permanent and Non-Permanent Military Residents

Data from DMDC shows sponsors and dependents spread statewide with the majority on Oahu, but does not distinguish between permanent and non-permanent residents.



Extraction of Non-Permanent Residents

- Three things we need to know – DMDC Military Data:

- **LOCATION:** 

Where is the non-permanent resident's usual residence

- Only duty station given for sponsors

- **TIMELINESS :** 

Was that their usual residence on April 1, 2010?


- March 31, 2010

- **NON-PERMANENT STATUS:** 

- Is the person a non-permanent resident?

- Not individually identified

Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 -  - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**
- **Commission Schedule**

Non-Permanent Student Residents Disaggregation

If extractions to the U.S. Census PL 94-171 census block counts are to be made for redistricting, data on the non-permanent populations to be extracted must also be known or estimated at the census block level.

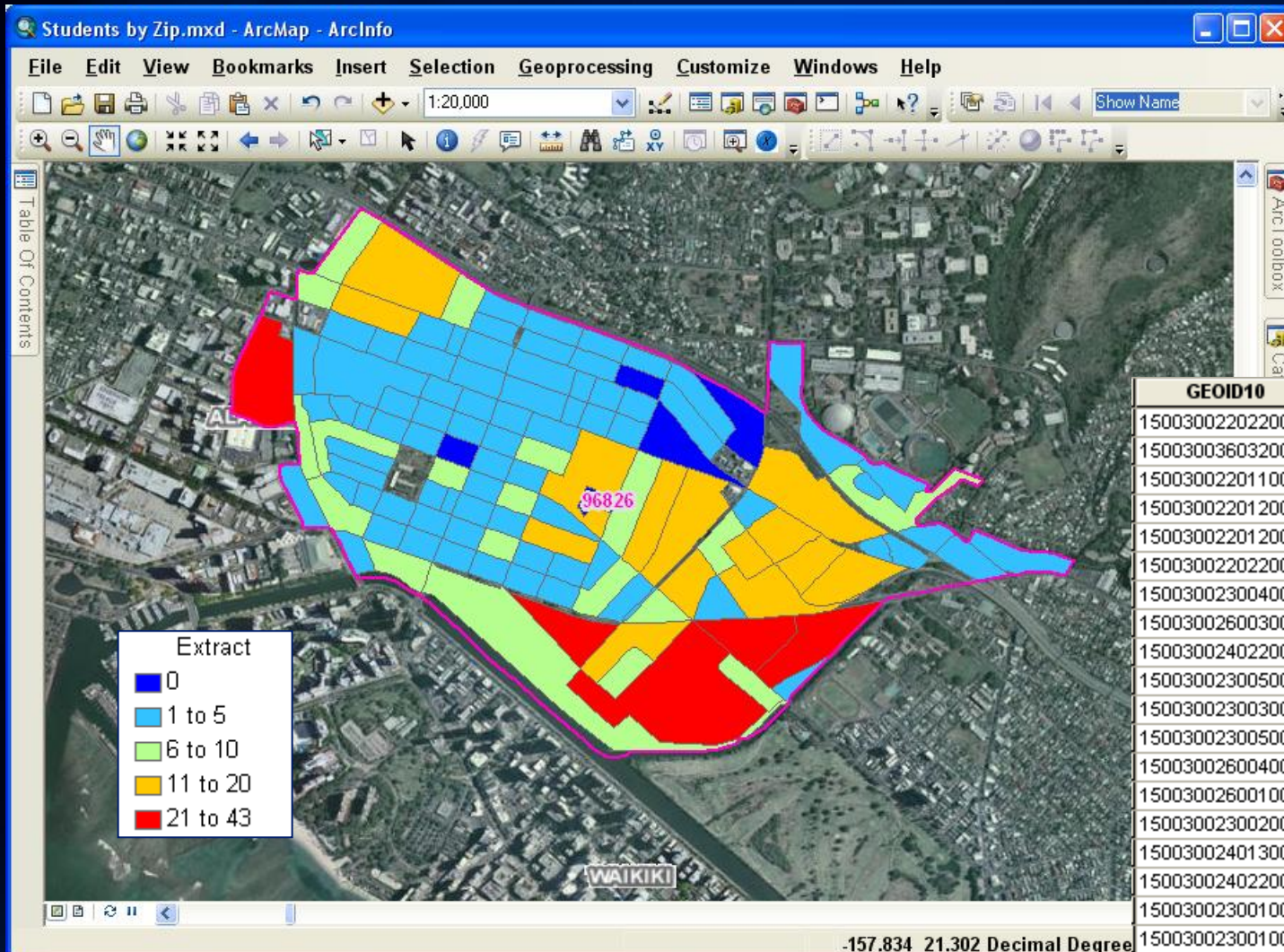
For privacy reasons, data is often only provided at a ZIP Code level.

A disaggregation model is applied to assign ZIP Code-level non-permanent populations to individual census blocks in proportion to the total population of each census block.

An example showing University of Hawaii non-resident student counts for ZIP Code 96826 being assigned to individual census blocks will help illustrate how this model works.

Non-Permanent Student Residents Disaggregation

With 30,842 residents and 715 non-permanent residents, approximately 1 in every 43 residents is non-permanent, we use that proportion to extract from each census block.



ZIP Code 96826

715 npr students

30,842 population

121 census blocks

GEOID10	ZCTA	Pop2010	Extract	Adjusted
150030022022001	96826	1841	43	1798
150030036032001	96826	1791	41	1750
150030022011000	96826	1115	26	1089
150030022012000	96826	1111	26	1085
150030022012001	96826	970	22	948
150030022022005	96826	845	20	825
150030023004002	96826	733	17	716
150030026003002	96826	661	15	646
150030024022001	96826	649	15	634
150030023005000	96826	628	15	613
150030023003002	96826	609	14	595
150030023005001	96826	607	14	593
150030026004003	96826	573	13	560
150030026001000	96826	564	13	551
150030023002008	96826	510	12	498
150030024013002	96826	509	12	497
150030024022004	96826	503	12	491
150030023001000	96826	481	11	470
150030023001001	96826	464	11	453
150030035021006	96826	432	10	422
150030023004000	96826	417	10	407

Extraction of Non-Permanent Residents

- Three things we need to know – Students:

- **LOCATION:**

Where is the non-permanent resident's usual residence

- census block = more certain
- ZIP code = less certain

Full Address 
ZIP Code Only 

- **TIMELINESS :** 


Was that their usual residence on April 1, 2010?

- Spring Semester 2010

- **NON-PERMANENT STATUS:** 

- Is the person a non-permanent resident?
 - Identified by institution as non-resident

Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 -  - **Possible Extractions**
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Extraction of Non-Permanent Residents

How are military sponsors and dependents in Hawaii counted by the US Census?

The screenshot shows the 2010 US Census website. The top navigation bar includes links for '2010 Census Home', 'Press & Media', and 'Partners'. Below this is a secondary navigation bar with 'ABOUT', 'DATA', 'BLOG', 'CONNECT', and 'MULTIMEDIA'. A search box is located on the right side of the navigation bar. The main content area features a sidebar on the left with an 'About' section containing links to 'What is the Census?', 'Why It's Important', 'How It Benefits Your Community', 'Interactive Timeline', 'Explore the Form', 'Census in the Constitution', 'How We Count America', and 'Protecting Your Answers'. The main content area has a large heading 'How We Count America' followed by the sub-heading 'The census numbers tell us who we are and what we need.' Below this are links for 'Print', 'Share this page', and 'AAA'. At the bottom of the main content area is a horizontal strip of four images: a suburban house, a graduate in a cap and gown, a man and woman smiling, and a busy city street with an 'OPEN' sign.

Extraction of Non-Permanent Residents

How are military sponsors and dependents in Hawaii counted by the US Census?

- **GROUP QUARTERS:**

- Living in barracks
- Shorter-term
- Counts by census block

- **MILITARY ON-BASE:**

- Living in on-base housing
- Longer-term
- Families work and go to school here
- Counts by census block

- **MILITARY OFF-BASE:**

- No counts provided by U.S. Census

Extraction of Non-Permanent Residents

- Three things we need to know – Military Group Quarters and On-Base:

- **LOCATION:** 

Where is the non-permanent resident's usual residence

- Group quarters census block
- On-base census block

- **TIMELINESS :** 

Was that their usual residence on April 1, 2010?

- Group quarters counted on Census Day
- On-base counted on Census Day

- **NON-PERMANENT STATUS: ?**

- Is the person a non-permanent resident?

- Group quarters unknown, barracks are transient housing
- On-base unknown, on-base less transient than group quarters

Extraction of Non-Permanent Residents

- Three Extractions:

- **EXTRACTION A:**

- Students with full addresses
- Military in Group Quarters

- Census block location known, fairly certain non-permanent status

- **EXTRACTION B :**

- All of Extraction A
- Military (and others) living On-base

- Census block location known, less certain non-permanent status

- **EXTRACTION C:**

- All of Extractions A and B
- Students with only ZIP Codes

- Census block location not known, fairly certain non-permanent status

Extraction of Non-Permanent Residents

- EXTRACTION A:	extraction	adjusted total
- Oahu	-15,660	937,547
- Hawaii	-793	184,286
- Maui	-4	154,920
- Kauai	-1	67,090
- EXTRACTION B (includes Extraction A):		
- Oahu*	-72,609	880,598
- Hawaii*	-796	184,283
- Maui	-4	154,920
- Kauai	-143	66,948
- EXTRACTION C (includes Extractions A and B):		
- Oahu*	-78,524	874,683
- Hawaii*	-921	184,158
- Maui	-178	154,746
- Kauai	-198	66,893

* Under Extractions B or C, Oahu receives 17 and Hawaii receives 4 senate seats

Extraction of Non-Permanent Residents

State

Congress



Hawaii

Senate



House



Maui

Senate



House



Kauai

Senate



House



Oahu

Senate



House



Extraction of Non-Permanent Residents

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Topics

- **Public Plans and Public Hearings**
- **Population Base**
 - **Extraction of Non-Permanent Residents**
 - **DMDC Data on Military in Hawaii**
 - **Dissaggregation of ZIP Code Data**
 - **Possible Extractions**

 • **Commission Schedule**

Commission Schedule

- Aug 5** **Commission Meeting: Adopt proposed plan**
- Aug 30 – Sep 16** **Public Hearings and Comment Period**
- Sep 19** **Commission Meeting**
- Sep 23** **Commission Meeting**
- Sep 26** **Commission Meeting to adopt final plan**
- Sep 26** **Statutory deadline to file final plan with Chief Election Officer**
- Oct 10** **Statutory deadline for Chief Election Officer to publish final plan**
- Dec 29** **Statutory deadline to submit final report to State Legislature**



Hawaii Reapportionment Commission

19 September 2011

Commission Meeting

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

Address:

State Capitol
415 South Beretania Street, Rm #445
Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

Fax: (808) 586-4105

Email: reapportionment@hawaii.gov

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<https://redistricting.hawaii.gov/>

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2010 precincts

Registered Voters

- 4001 - 6164
- 3001 - 4000
- 2001 - 3000
- 1001 - 2000
- 60 - 1000

OnBase Populations

- 251 - 3241
- 101 - 250
- 26 - 100
- 1 - 25

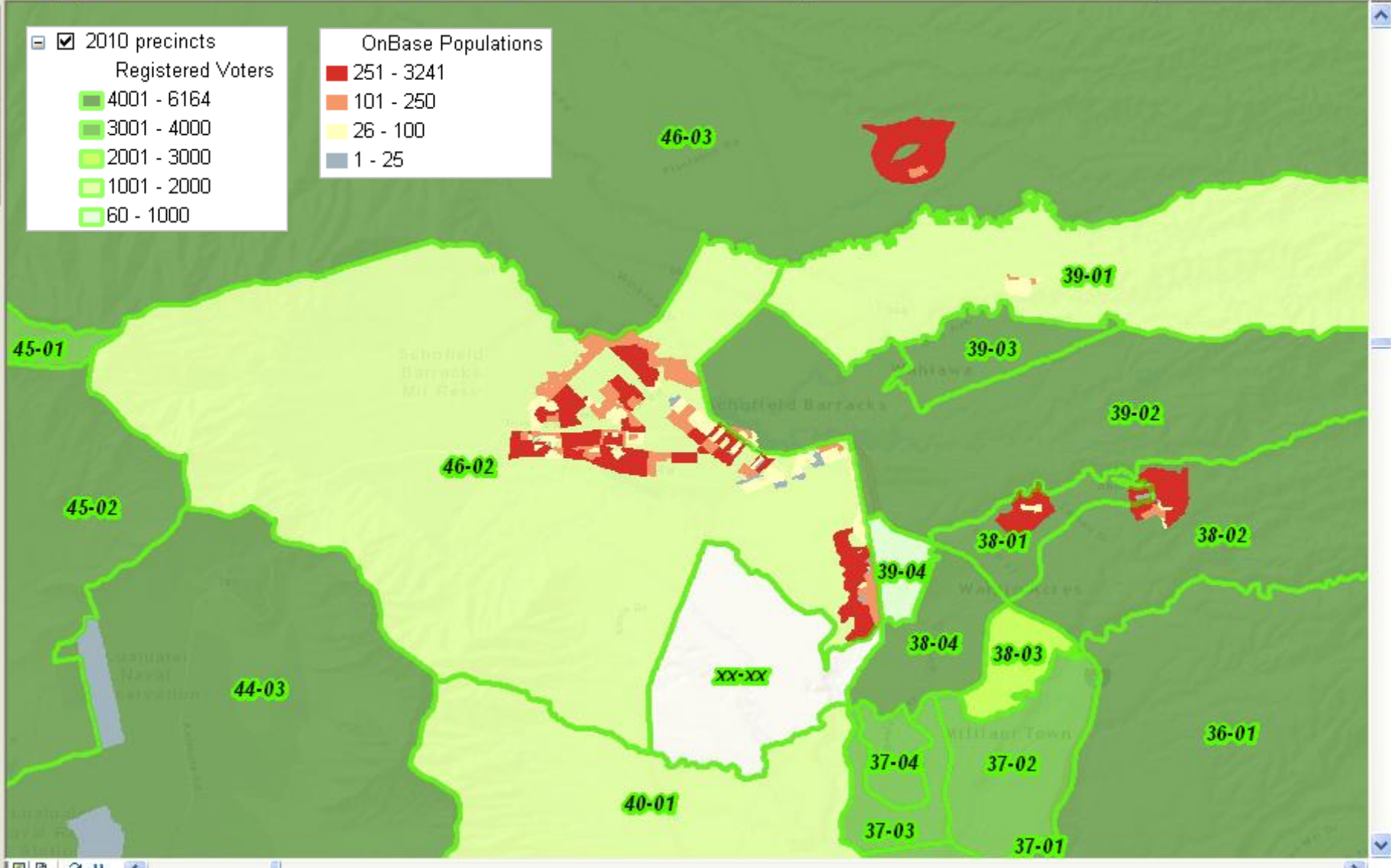


Table Of Contents

ArcToolbox Catalog

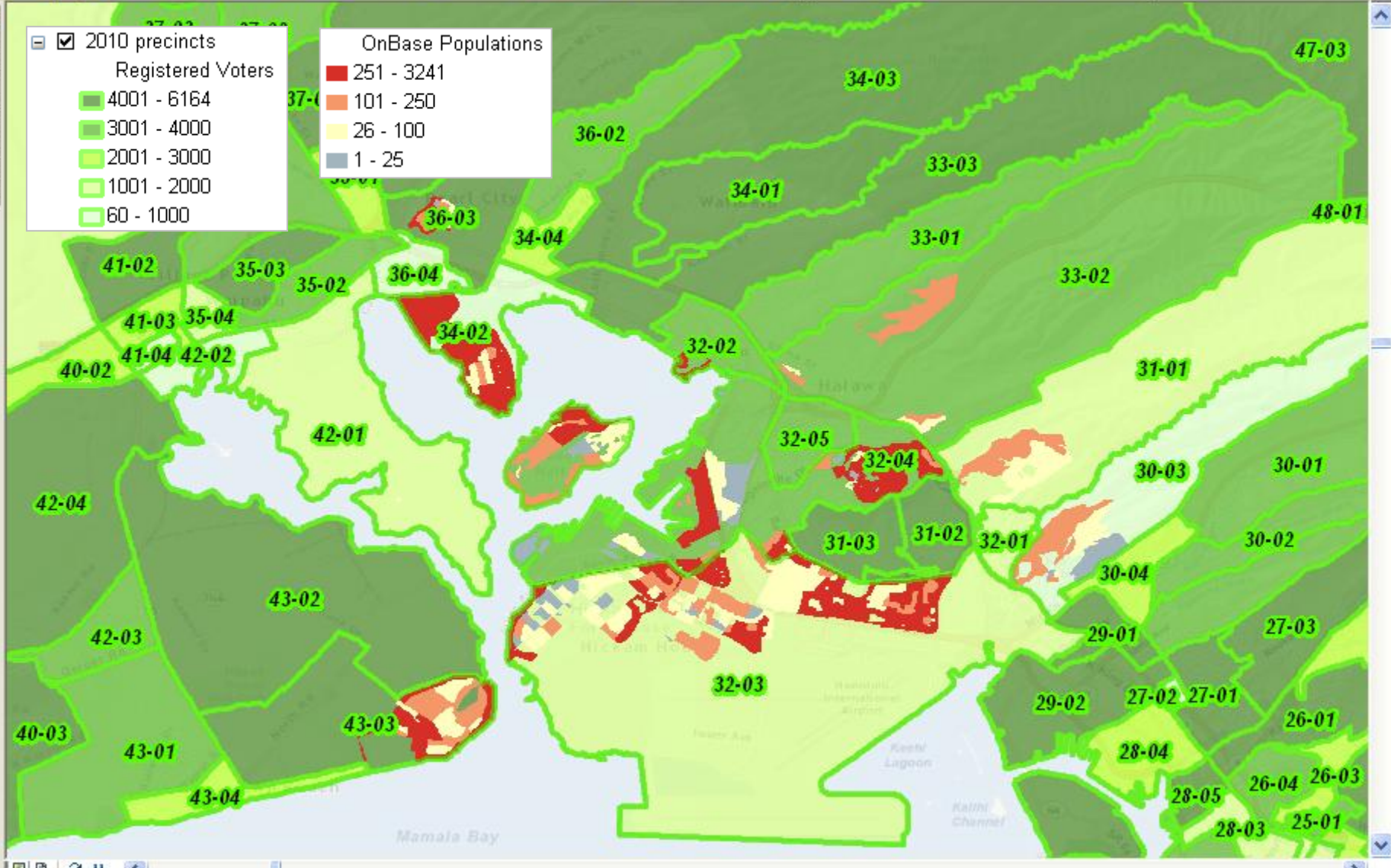
2010 precincts

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- 3001 - 4000
- 2001 - 3000
- 1001 - 2000
- 60 - 1000

OnBase Populations

- 251 - 3241
- 101 - 250
- 26 - 100
- 1 - 25



1:78,757

Show Name

2010 precincts

Registered Voters

- 4001 - 6164
- 3001 - 4000
- 2001 - 3000
- 1001 - 2000
- 60 - 1000

OnBase Populations

- 251 - 3241
- 101 - 250
- 26 - 100
- 1 - 25

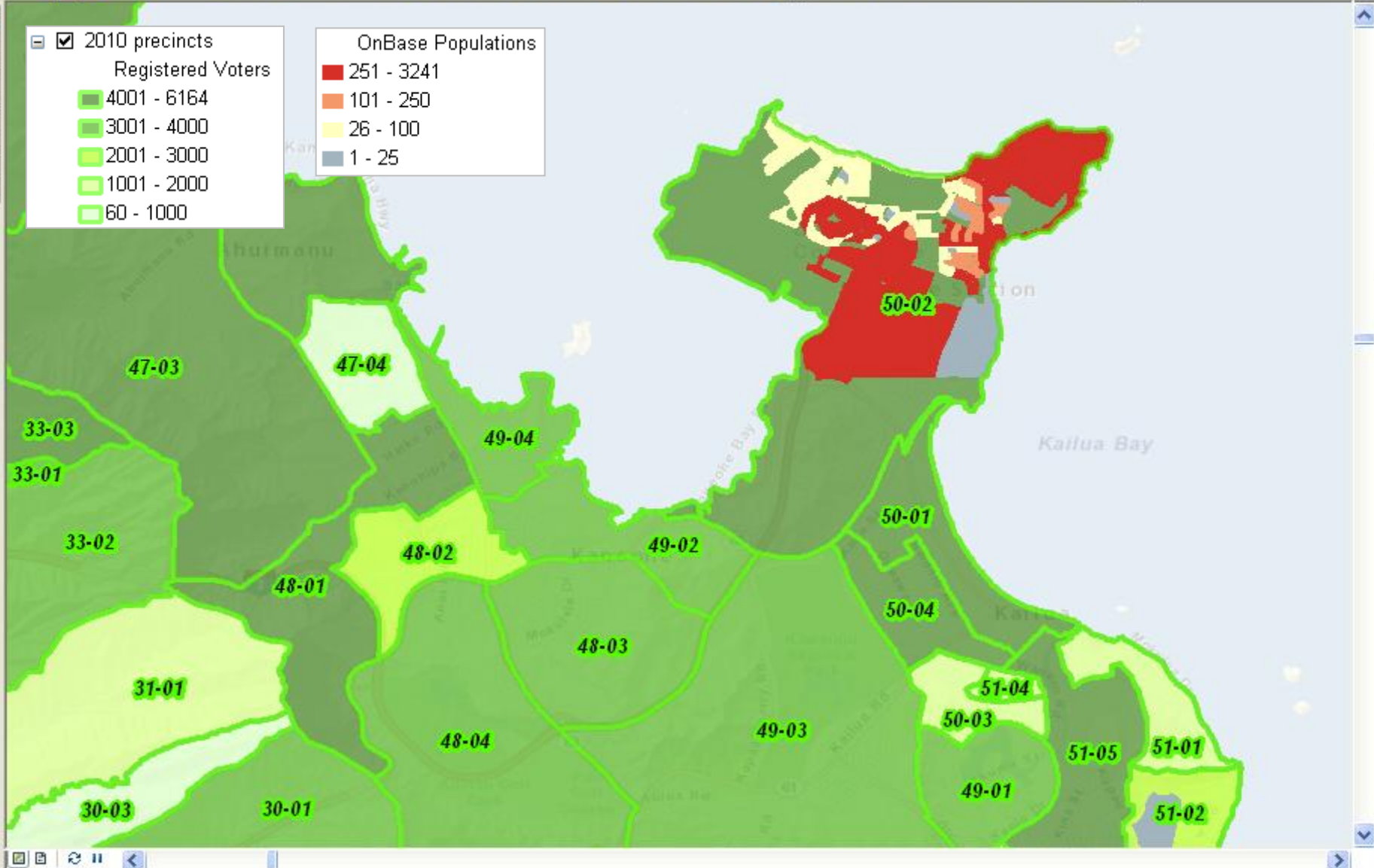
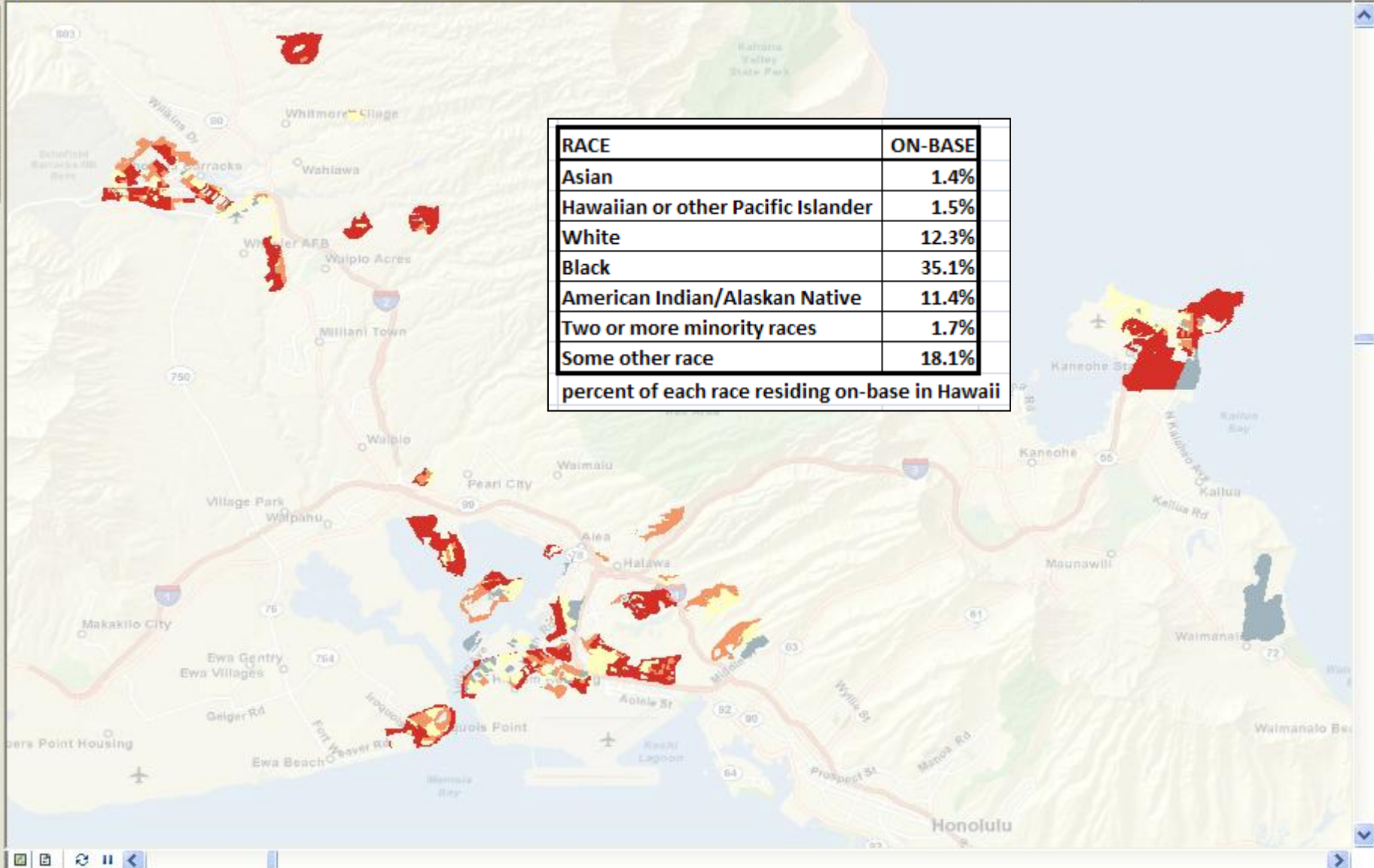


Table Of Contents

ArcToolbox
Catalog





Hawaii Reapportionment Commission

26 September 2011

Commission Meeting

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

Address:

State Capitol

415 South Beretania Street, Rm #445

Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

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09/26/2011



www.olelo.org/olelonet

Search Archives:

Topics

- ➔ • Reapportionment using “Extraction A” population base
 - Senate Staggered Terms for 2012
 - Hawaii Reapportionment Commission Plan
 - Congress
 - Senate
 - House
 - Commission Schedule

Extraction of Non-Permanent Residents

- EXTRACTION A:	extraction	adjusted total
- Oahu	-15,660	937,547
- Hawaii	-793	184,286
- Maui	-4	154,920
- Kauai	-1	67,090

Adopted by the Hawaii Reapportionment Commission on September 19, 2011

Reapportionment Among Basic Island Units

Apportion Representatives

Hawaii Constitution Article IV Section 4

“The commission shall allocate the total number of members of each house of the state legislature being reapportioned among the four basic island units ... using the **total number of permanent residents** in each of the basic island units and computed by the method known as the **method of equal proportions** ...”

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]

“This method... serves the rational state policies articulated in the Hawaii State Constitution, which recognizes the geographic insularity and unique political and socio-economic identities of the basic island units.”

[State of Hawaii 2001 Reapportionment Commission:
Final Report and Reapportionment Plan, Dec 2001]



- 1) **population base**
- 2) **apportion representatives** (reapportionment)
- 3) **draw district boundaries** (redistricting)



Reapportionment Among Basic Island Units

The commission allocated the total number of members of each house of the state legislature among the four basic island units by the method of equal proportions. This is the same method used to apportion the U.S. Congress. To determine each basic island unit's share of seats the commission used the permanent resident population and the Table of Multipliers for the Method of Equal Proportions.



The screenshot shows the U.S. Census Bureau website page for Congressional Apportionment. The page has a blue header with the U.S. Census Bureau logo and navigation links for People, Business, Geography, Newsroom, Subjects A to Z, and Search@Census. Below the header is a large orange banner with the title "Congressional Apportionment" and a photograph of a person standing next to an American flag. Underneath the banner is a breadcrumb trail: "Census.gov > People and Households > Congressional Apportionment Main > About Apportionment > Computing Apportionment". A navigation bar contains buttons for "Main", "About Apportionment", "Data", "Related Sites", and "Contact Us". The main content area is titled "Computing Apportionment" and includes a sidebar with "In This Section" containing links like "About Congressional Apportionment", "Why It's Done", "How Long It's Been Done", "Who's Counted", "How It's Calculated", "Computing Apportionment", "Delivering the Numbers", "Historical Perspective", and "Frequently Asked Questions". The main text explains Article 1, Section 2 of the U.S. Constitution, the primary mandate of the U.S. census, and the Method of Equal Proportions. It provides an example of seat assignment based on population and includes the formula for the multiplier.

U.S. Census Bureau

People | Business | Geography | Newsroom | Subjects A to Z | Search@Census

Congressional Apportionment

Census.gov > People and Households > Congressional Apportionment Main > About Apportionment > Computing Apportionment

Main | About Apportionment | Data | Related Sites | Contact Us

In This Section

- About Congressional Apportionment
- Why It's Done
- How Long It's Been Done
- Who's Counted
- How It's Calculated
- Computing Apportionment
- Delivering the Numbers
- Historical Perspective
- Frequently Asked Questions

Computing Apportionment

Article 1, Section 2, of the United States Constitution states:

"Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers...The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten Years, in such Manner as they shall by Law direct."

Therein lies the primary mandate of the U.S. census, apportionment of the House of Representatives. Since that first census in 1790, five methods of apportionment have been used. The current method used, the Method of Equal Proportions, was adopted by congress in 1941 following the census of 1940. This method assigns seats in the House of Representatives according to a "priority" value. The priority value is determined by multiplying the population of a state by a "multiplier."

For example, following Census 2000, each of the 50 states was given one seat out of the current total of 435. The next, or 51st seat, went to the state with the highest priority value and thus became that state's second seat. This continued until all 435 seats had been assigned to a state. This is how it is done.

EQUAL PROPORTIONS METHOD

P - represents a state's total population

n - represents the number of seats a state would have if it gained a seat (because all states automatically received one seat the next seat gained is "seat two," and the next "seat three," and the next "seat four," and so on.)

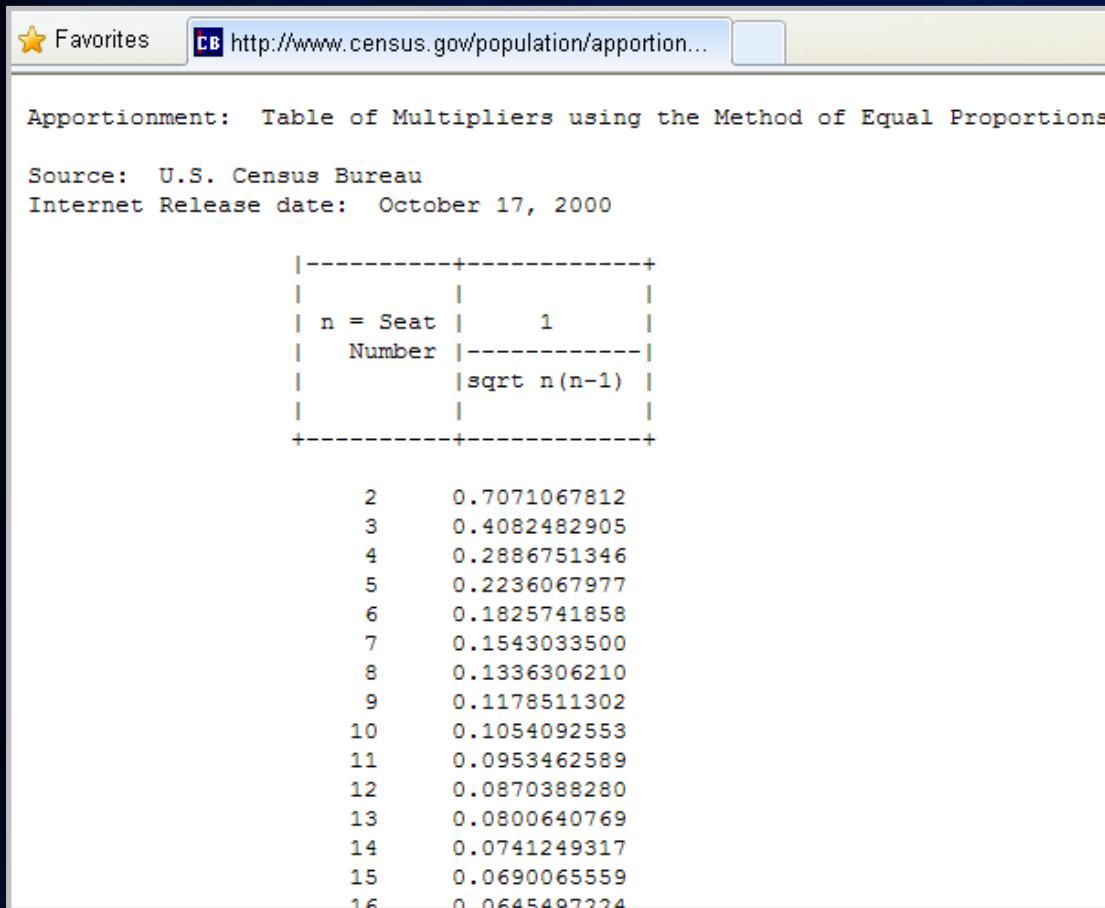
The multiplier equals:

$$1/\sqrt{n(n-1)}$$

<http://www.census.gov/population/apportionment/about/computing.html>

Reapportionment Among Basic Island Units

The method of equal proportions computes “priority values” based on each basic island unit’s apportionment population. The priority values are calculated by dividing the population of each basic island unit by the geometric mean of its current and next seats. The priority values are then ranked and used to assign members in the house and senate starting with the second seat .



Apportionment: Table of Multipliers using the Method of Equal Proportions

Source: U.S. Census Bureau
Internet Release date: October 17, 2000

n = Seat Number	1
	$\sqrt{n(n-1)}$
2	0.7071067812
3	0.4082482905
4	0.2886751346
5	0.2236067977
6	0.1825741858
7	0.1543033500
8	0.1336306210
9	0.1178511302
10	0.1054092553
11	0.0953462589
12	0.0870388280
13	0.0800640769
14	0.0741249317
15	0.0690065559
16	0.0645487224

<http://www.census.gov/population/apportionment/data/files/atable.txt>

Reapportionment Among Basic Island Units

RANKING OF PRIORITY VALUES						
Each Basic Island Unit gets one initial seat in each branch, so start with seat #2						
RGM	BIUPop	Priority	Seat#	BIU Senate	BIU House	BIU
0.70710678 x	937547 =	662946	5	2	2	Oahu
0.40824829 x	937547 =	382752	6	3	3	Oahu
0.28867513 x	937547 =	270647	7	4	4	Oahu
0.2236068 x	937547 =	209642	8	5	5	Oahu
0.18257419 x	937547 =	171172	9	6	6	Oahu
0.15430335 x	937547 =	144667	10	7	7	Oahu
0.70710678 x	184286 =	130310	11	2	2	Hawaii
0.13363062 x	937547 =	125285	12	8	8	Oahu
0.11785113 x	937547 =	110491	13	9	9	Oahu
0.70710678 x	154920 =	109545	14	2	2	Maui
0.10540926 x	937547 =	98826.1	15	10	10	Oahu
0.09534626 x	937547 =	89391.6	16	11	11	Oahu
0.08703883 x	937547 =	81603	17	12	12	Oahu
0.40824829 x	184286 =	75234.4	18	3	3	Hawaii
0.08006408 x	937547 =	75063.8	19	13	13	Oahu
0.07412493 x	937547 =	69495.6	20	14	14	Oahu
0.06900656 x	937547 =	64696.9	21	15	15	Oahu
0.40824829 x	154920 =	63245.8	22	3	3	Maui
0.06454972 x	937547 =	60518.4	23	16	16	Oahu
0.06063391 x	937547 =	56847.1	24	17	17	Oahu
0.0571662 x	937547 =	53596	25	18	18	Oahu
0.28867513 x	184286 =	53198.8	26			4 Hawaii
0.05407381 x	937547 =	50696.7	27			19 Oahu
0.05129892 x	937547 =	48095.1	28			20 Oahu
0.70710678 x	67090 =	47439.8	29			2 Kauai
0.0487950 x	937547 =	45747.6	30			21 Oahu
0.28867513 x	154920 =	44721.6	31			4 Maui
0.04652421 x	937547 =	43618.6	32			22 Oahu
0.04445542 x	937547 =	41679	33			23 Oahu
0.2236068 x	184286 =	41207.6	34			5 Hawaii
0.04256283 x	937547 =	39904.7	35			24 Oahu
0.04082483 x	937547 =	38275.2	36			25 Oahu
0.03922323 x	937547 =	36773.6	37			26 Oahu
0.03774257 x	937547 =	35385.4	38			27 Oahu
0.2236068 x	154920 =	34641.2	39			5 Maui
0.03636965 x	937547 =	34098.3	40			28 Oahu
0.18257419 x	184286 =	33645.9	41			6 Hawaii
0.03509312 x	937547 =	32901.4	42			29 Oahu
0.03390318 x	937547 =	31785.8	43			30 Oahu
0.03279129 x	937547 =	30743.4	44			31 Oahu
0.0317500 x	937547 =	29767.1	45			32 Oahu
0.03077287 x	937547 =	28851	46			33 Oahu
0.15430335 x	184286 =	28435.9	47			7 Hawaii
0.18257419 x	154920 =	28284.4	48			6 Maui
0.02985407 x	937547 =	27989.6	49			34 Oahu
0.40824829 x	67090 =	27389.4	50			3 Kauai
0.02898855 x	937547 =	27178.1	51			35 Oahu

Using "Extraction A" population base

Senate Seats by Basic Island Unit

State	1,360,301	25
Oahu	937,547	18
Hawaii	184,286	3
Maui	154,920	3
Kauai	67,090	1

House Seats by Basic Island Unit

State	1,360,301	51
Oahu	937,547	35
Hawaii	184,286	7
Maui	154,920	6
Kauai	67,090	3

Reapportionment Among Basic Island Units

Burns v Gill method of measuring total representation

Extraction A		S seats	H seats	Tot seats	Pop/seat	Deviation
State of Hawaii	1,343,843	25	51	76	17,682	
Oahu BIU	937,547	18	35	53	17,690	0.04%
Hawaii BIU	184,286	3	7	10	18,429	4.22%
Maui BIU	154,920	3	6	9	17,213	-2.65%
Kauai BIU	67,090	1	3	4	16,773	-5.14%
overall	1343843	25	51			9.37%

Topics

- Reapportionment using “Extraction A” population base
- ➔ • Senate Staggered Terms for 2012
- Hawaii Reapportionment Commission Plan
 - Congress
 - Senate
 - House
- Commission Schedule

Senate Staggered Terms

Staggered Terms for the Senate

Hawaii Constitution Article IV Sections 7 and 8

“The reapportionment commission shall, as part of the reapportionment plan, assign two-year terms for twelve senate seats for the election immediately following the adoption of the reapportionment plan.

The remaining seats shall be assigned four-year terms.

Insofar as practicable, the commission shall assign the two-year terms to senate seats so that the resident population of each senate district shall have no more than two regular senate elections for a particular senate seat within the six-year period beginning in the even-numbered year prior to the reapportionment year.”

[Add Const Con 1978 and election Nov 7, 1978; am HB 572 (1987) and election Nov 8, 1988; am SB 2234 (1992) and election Nov 3, 1992; am HB 1 (2000 2d) and election Nov 7, 2000]

Senate Staggered Terms for 2012

92.1% match rate

	2010	2010 SE Pop	2012
Senate 1	no	4,551	2 years
Senate 2	YES	62,954	4 years
Senate 3	no	0	2 years
Senate 4	YES	53,971	4 years
Senate 5	no	0	2 years
Senate 6	no	1,626	2 years
Senate 7	YES	67,090	4 years
Senate 8	YES	52,038	4 years
Senate 9	YES	52,162	4 years
Senate 10	YES	50,370	4 years
Senate 11	no	0	2 years
Senate 12	no	0	2 years
Senate 13	YES	52,582	4 years
Senate 14	YES	46,702	4 years
Senate 15	YES	53,440	4 years
Senate 16	no	7,575	2 years
Senate 17	no	8,230	2 years
Senate 18	no	12,096	2 years
Senate 19	YES	51,591	4 years
Senate 20	YES	54,332	4 years
Senate 21	no	3,237	2 years
Senate 22	YES	44,060	4 years
Senate 23	no	22,505	2 years
Senate 24	YES	30,542	2 years
Senate 25	YES	50,444	4 years

2010 SE Pop =
2010 senate election population in
each of the new senate districts

The commission staff has identified each census block with a designation that it did or did not participate in an election for state senator in the 2010 election.

The staff has determined the population of each census block in each new senate district that had an election for senate in the year 2010.

The staff has identified twelve new senate districts seats which had the smallest populations of participation in the 2010 senatorial elections. These twelve new senate districts will be designated by the commission to have two year terms in the 2012 election.

Topics

- Reapportionment using “Extraction A” population base
- Senate Staggered Terms for 2012
- ➔ • Hawaii Reapportionment Commission Plan
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Reapportionment Within Basic Island Units

Redraw District Lines

Hawaii Constitution Article IV Section 6

“Upon the determination of the total number of members of each house of the state legislature to which each basic island unit is entitled, the commission shall... **redraw district lines** where necessary in such manner that for each house **the average number of permanent residents...** in each district is nearly equal to the average for the basic island unit as practicable.

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]



- 1) **population base**
- 2) **apportion representatives**
(reapportionment)
- 3) **draw district boundaries**
(redistricting)



Redistricting Within Basic Island Units

Using “Extraction A” population base

Senate Seats by Basic Island Unit

State	1,360,301	25	target
Oahu	937,547	18	52,086
Hawaii	184,286	3	61,429
Maui	154,920	3	51,640
Kauai	67,090	1	67,090

House Seats by Basic Island Unit

State	1,360,301	51	target
Oahu	937,547	35	26,787
Hawaii	184,286	7	26,327
Maui	154,920	6	25,820
Kauai	67,090	3	22,363



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Recommended Final Plan

Except for Congress, the Recommended Final Plan uses the “Extraction A” population base and reflects changes made since public hearings completed.

State

Congress



Hawaii

Senate

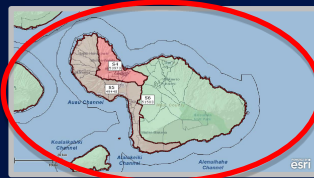


House



Maui

Senate



House



Kauai

Senate

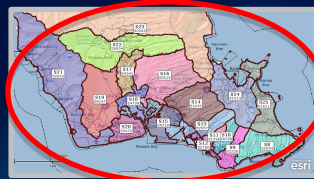


House



Oahu

Senate



House



Aug 5 Proposed Plan – Congress

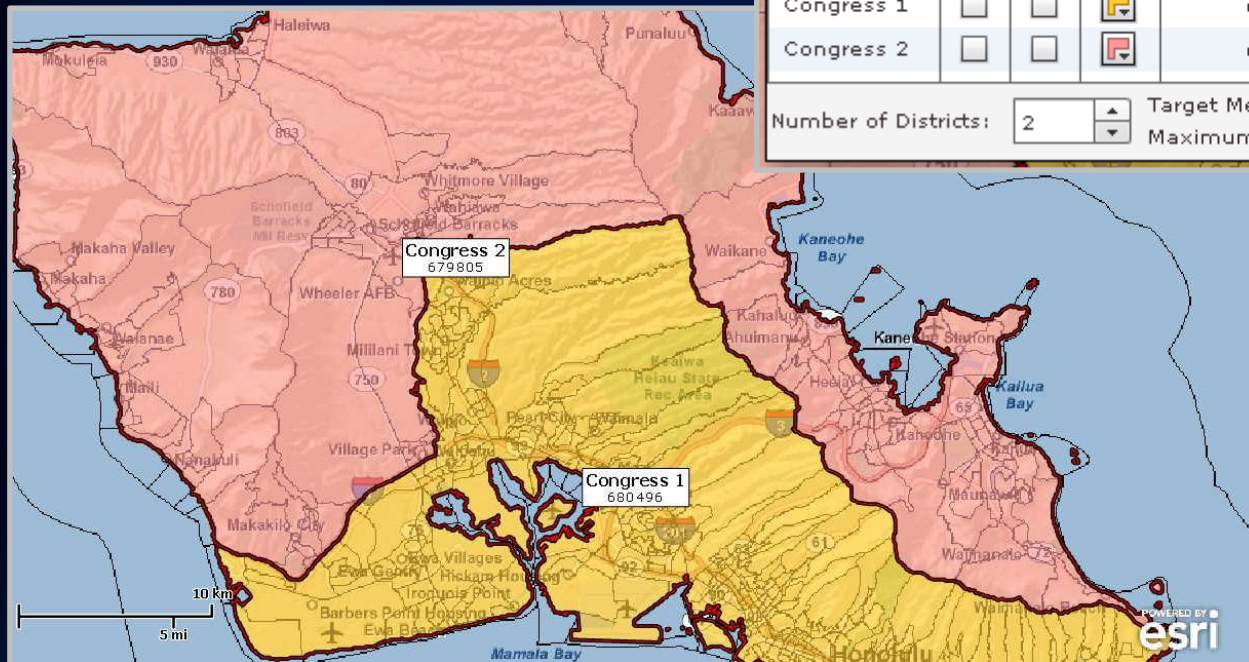
HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: CONGRESS

Plan:	Congress	Plan Deviation:	0.10%
Districts:	two (Congress 1 - 2)	highest deviation:	0.05%
Target Population:	680,151 per district	lowest deviation:	-0.05%

District Statistics						
	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		680,496	346	0.05
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		679,805	-345	-0.05

Number of Districts: Target Mean = 680,151
 Maximum Dev. (%): 1 Swap... Rename...



Recommended Final Plan – Congress

HAWAII REAPPORTIONMENT COMMISSION

Plan: Statewide Congress
 Districts: two (Congress 1 - 2)
 Target Population: 680,151 per district

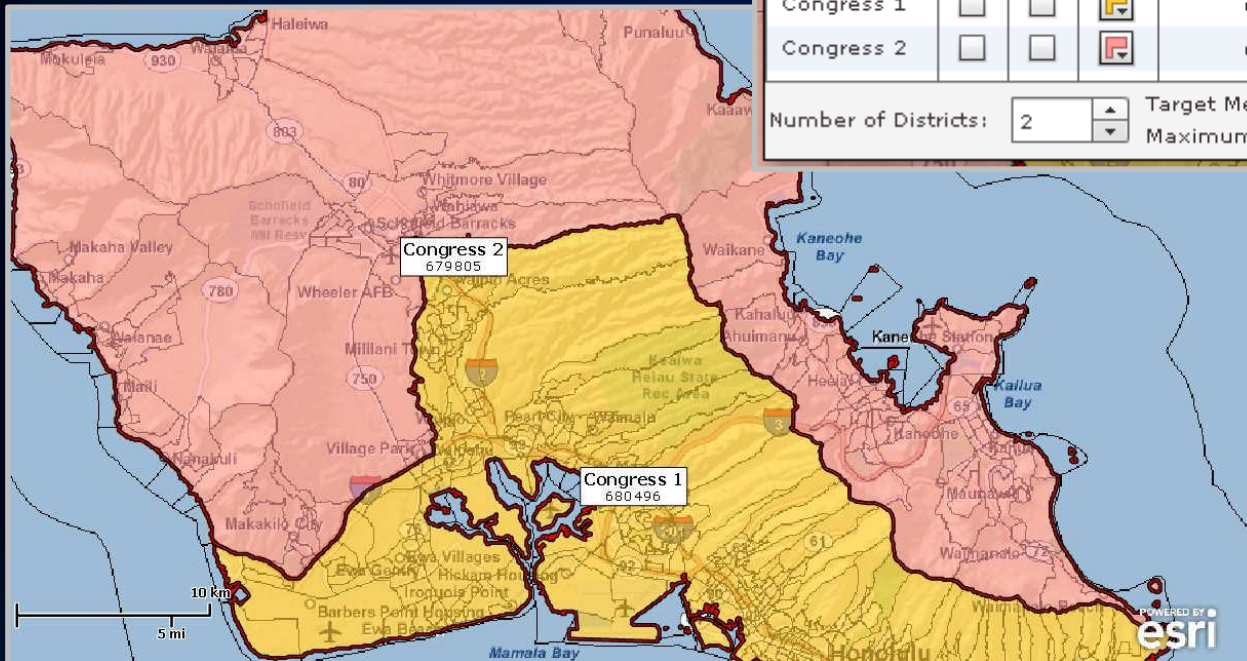
FINAL PLAN: CONGRESS

Plan Deviation: 0.10%
 highest deviation: 0.05%
 lowest deviation: -0.05%

District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		680,496	346	0.05
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		679,805	-345	-0.05

Number of Districts: Target Mean = 680,151
 Maximum Dev. (%): 1

[Swap...](#) [Rename...](#)



Aug 5 Proposed Plan – Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION

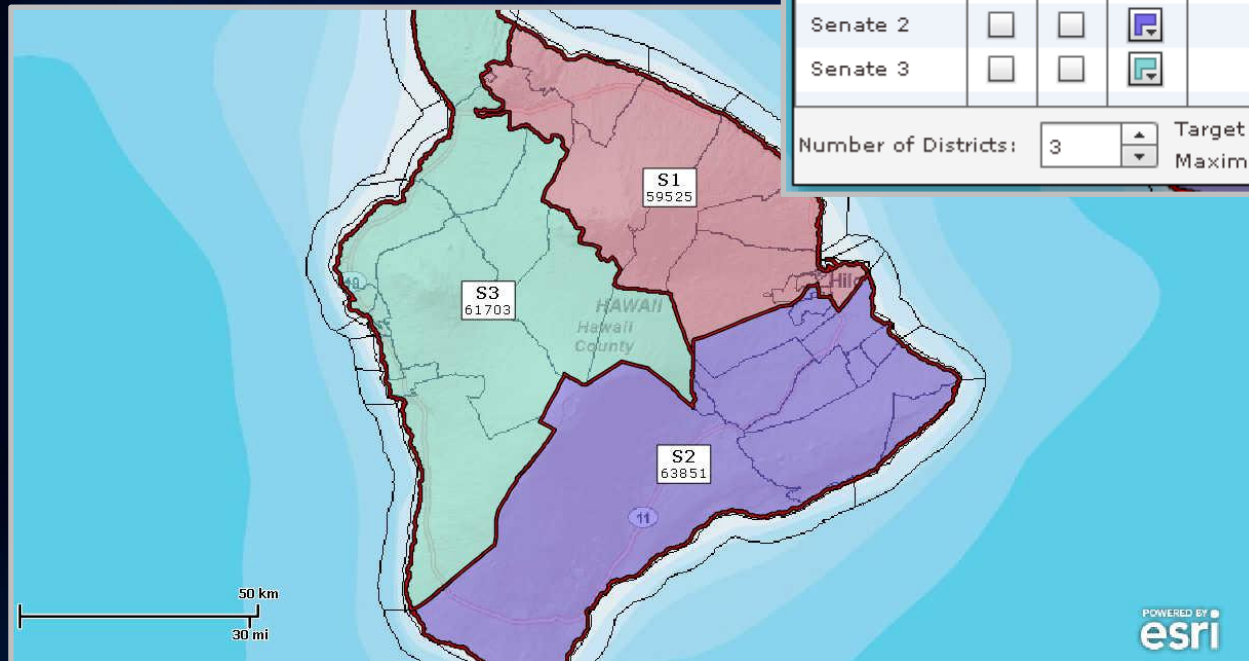
PROPOSED PLAN: SENATE HAWAII

Plan: Senate Hawaii
 Districts: three (Senate 1 - 3)
 Target Population: 61,693 per district

Plan Deviation: **7.01%**
 highest deviation: 3.50%
 lowest deviation: -3.51%

District Statistics						
	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 1	<input type="checkbox"/>	<input type="checkbox"/>		59,525	-2,168	-3.51
Senate 2	<input type="checkbox"/>	<input type="checkbox"/>		63,851	2,158	3.50
Senate 3	<input type="checkbox"/>	<input type="checkbox"/>		61,703	10	0.02

Number of Districts: Target Mean = 61,693
 Maximum Dev. (%): 10



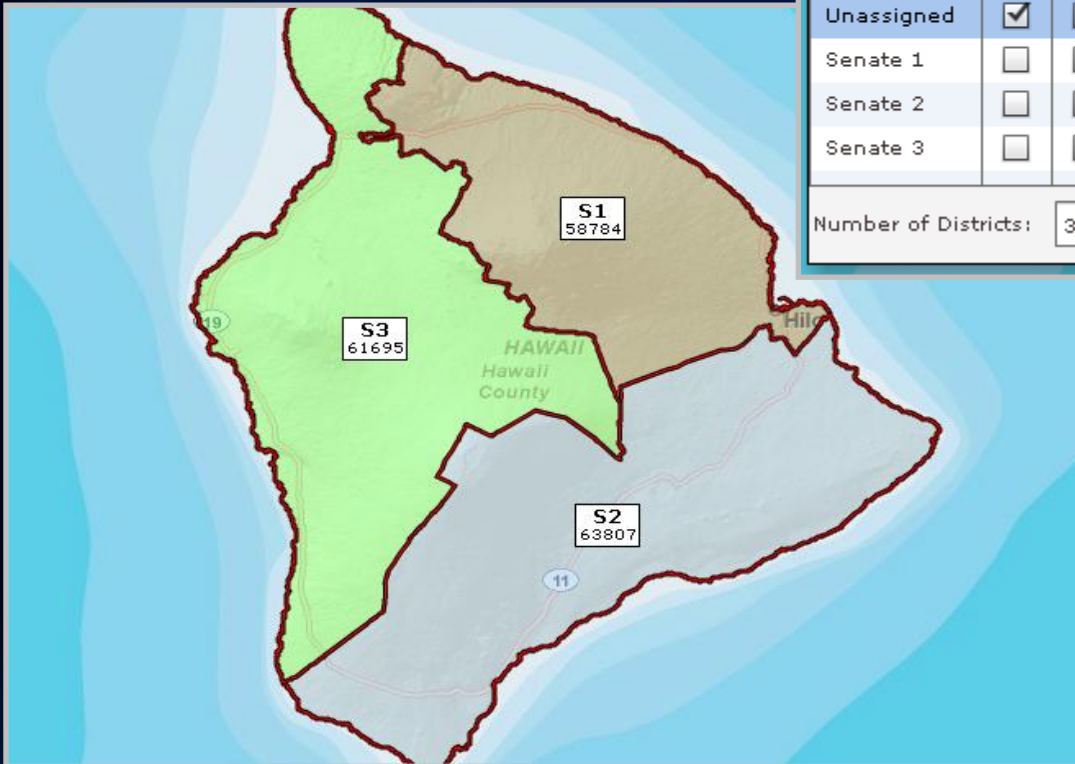
Recommended Final Plan – Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: HAWAII SENATE

Plan: Hawaii Senate
 Districts: three (Senate 1 - 3)
 Target Population: 61,429 per district

Plan Deviation: **8.18%**
 highest deviation: 3.87%
 lowest deviation: -4.31%



District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 1	<input type="checkbox"/>	<input type="checkbox"/>		58,784	-2,645	-4.31
Senate 2	<input type="checkbox"/>	<input type="checkbox"/>		63,807	2,378	3.87
Senate 3	<input type="checkbox"/>	<input type="checkbox"/>		61,695	266	0.43

Number of Districts: 3 Target Mean = 61,429
 Maximum Dev. (%): 10 [Swap...](#) [Rename...](#)

Aug 5 Proposed Plan – Senate Maui

HAWAII REAPPORTIONMENT COMMISSION

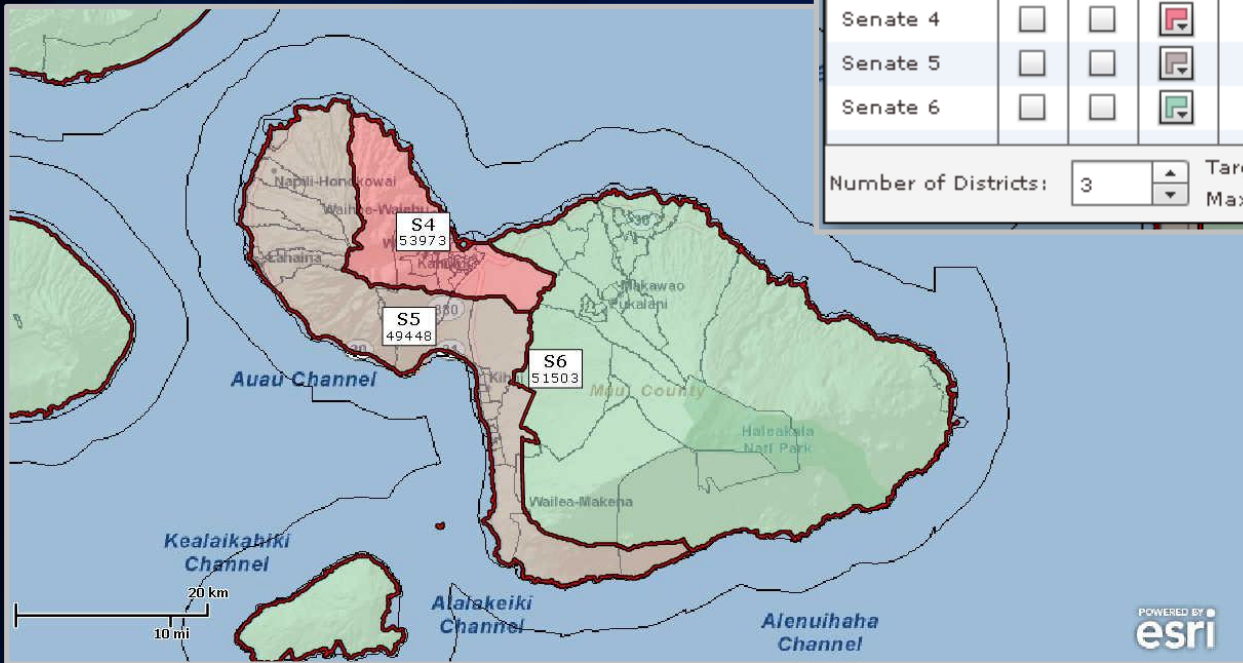
Plan: Senate Maui
 Districts: three (Senate 4 - 6)
 Target Population: 51,641 per district

PROPOSED PLAN: SENATE MAUI

Plan Deviation: 8.77%
 highest deviation: 4.52%
 lowest deviation: -4.25%

District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		53,973	2,332	4.52
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,448	-2,193	-4.25
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		51,503	-138	-0.27

Number of Districts: Target Mean = 51,641
 Maximum Dev. (%):



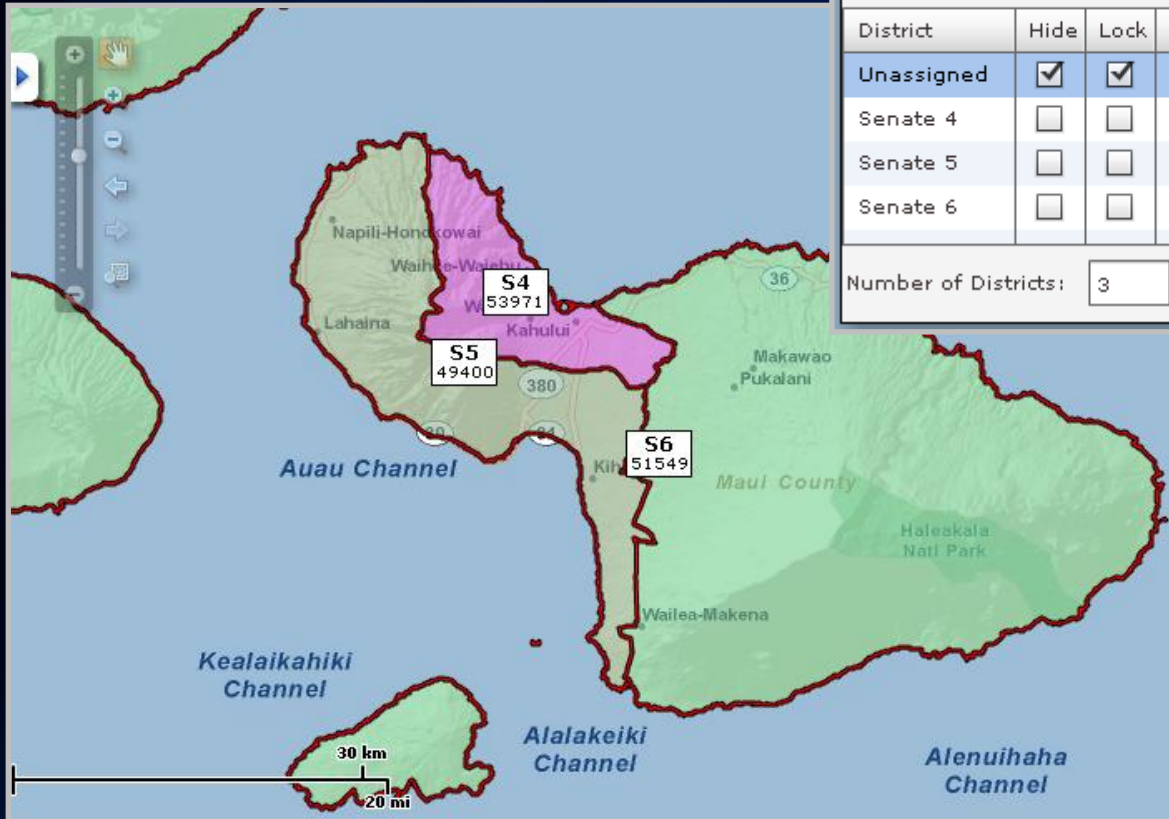
Recommended Final Plan – Senate Maui

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: MAUI SENATE

Plan: Maui Senate
 Districts: three (Senate 4 - 6)
 Target Population: 51,640 per district

Plan Deviation: 8.85%
 highest deviation: 4.51%
 lowest deviation: -4.34%



District Statistics							
	Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		53,971	2,331	4.51	
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,400	-2,240	-4.34	
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		51,549	-91	-0.18	

Number of Districts: Target Mean = 51,640
 Maximum Dev. (%): 10

Recommended Final Plan – Senate Maui

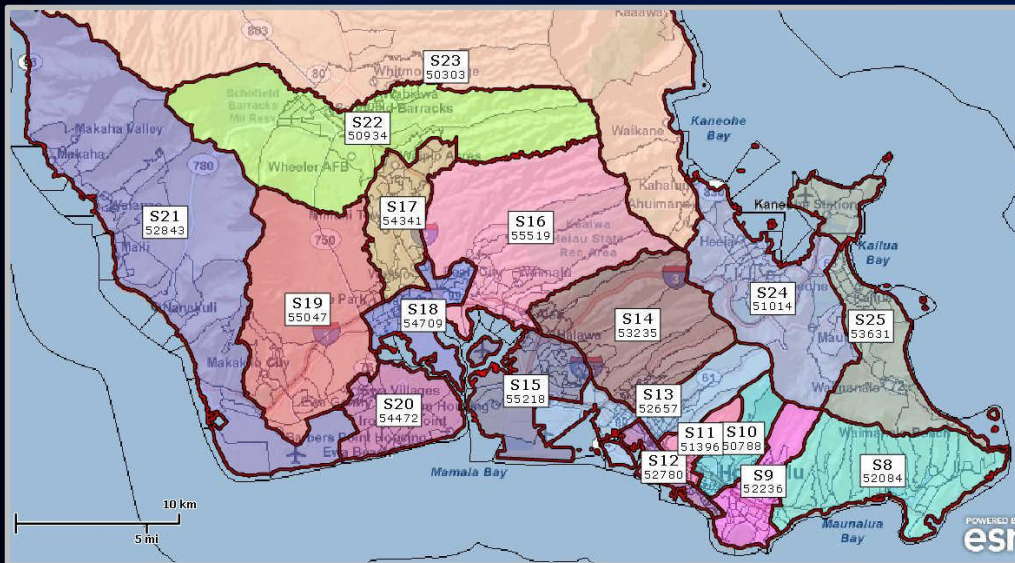


Recommended Final Plan – Senate Kauai



Aug 5 Proposed Plan – Senate Oahu

HAWAII REAPPORTIONMENT COMMISSION		PROPOSED PLAN: SENATE OAHU	
Plan:	Senate Oahu	Plan Deviation:	9.85%
Districts:	eighteen (Senate 8 - 25)	highest deviation:	4.84%
Target Population:	52,956 per district	lowest deviation:	-5.01%



Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		52,084	-872	-1.65
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		52,236	-720	-1.36
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		50,788	-2,168	-4.09
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		51,396	-1,560	-2.95
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		52,780	-176	-0.33
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		52,657	-299	-0.56
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		53,235	279	0.53
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		55,218	2,262	4.27
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		55,519	2,563	4.84
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		54,341	1,385	2.62
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		54,709	1,753	3.31
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		55,047	2,091	3.95
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		54,472	1,516	2.86
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		52,843	-113	-0.21
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		50,934	-2,022	-3.82
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		50,303	-2,653	-5.01
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		51,014	-1,942	-3.67
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		53,631	675	1.27

Number of Districts: 18 Target Mean = 52,956
 Maximum Dev. (%): 10

Buttons: Swap... Rename...

Recommended Final Plan – Senate Oahu

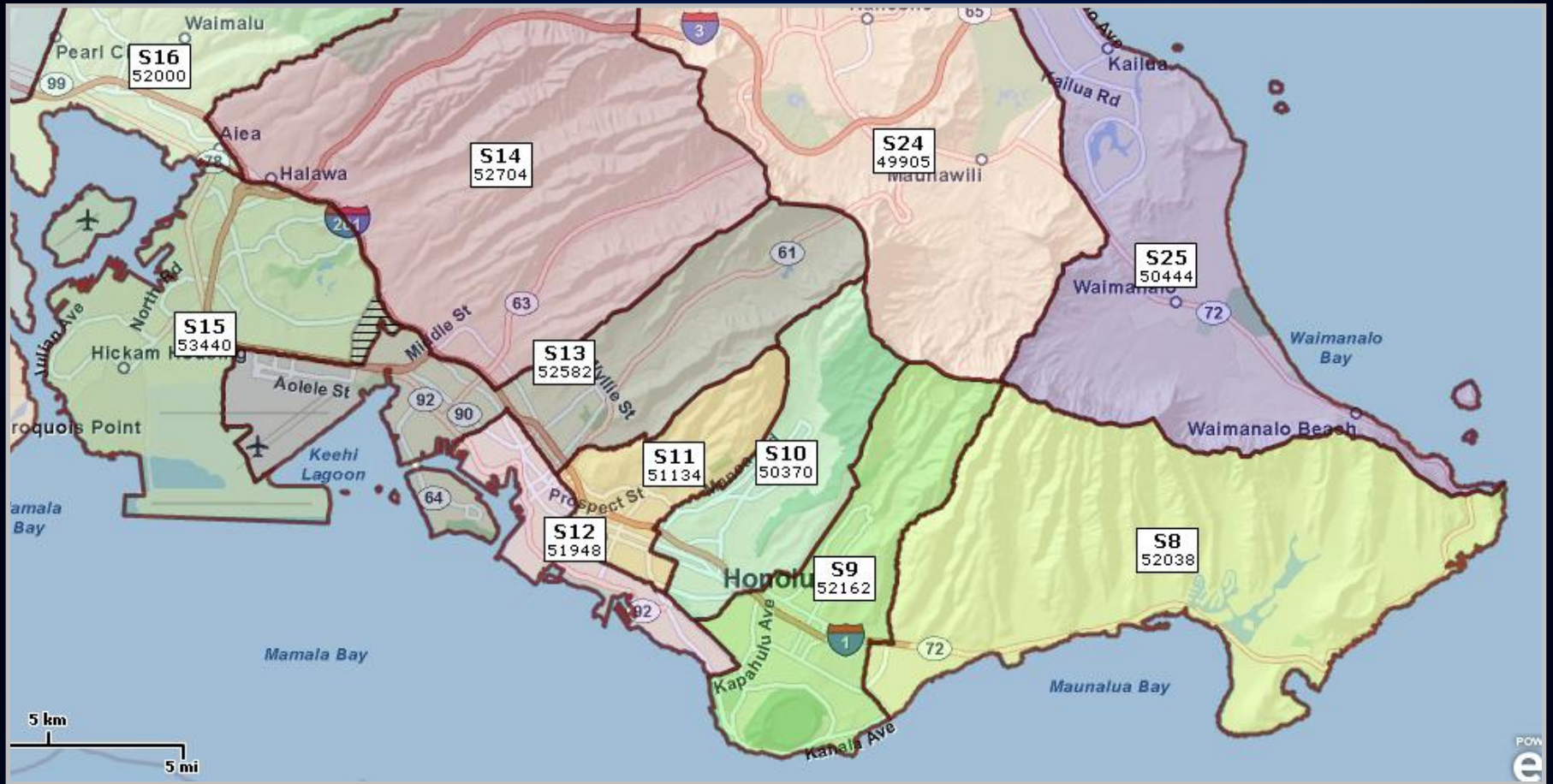
HAWAII REAPPORTIONMENT COMMISSION		FINAL PLAN: OAHU SENATE	
Plan:	Oahu Senate	Plan Deviation:	8.50%
Districts:	eighteen (Senate 8 - 25)	highest deviation:	4.31%
Target Population:	52,086 per district	lowest deviation:	-4.19%



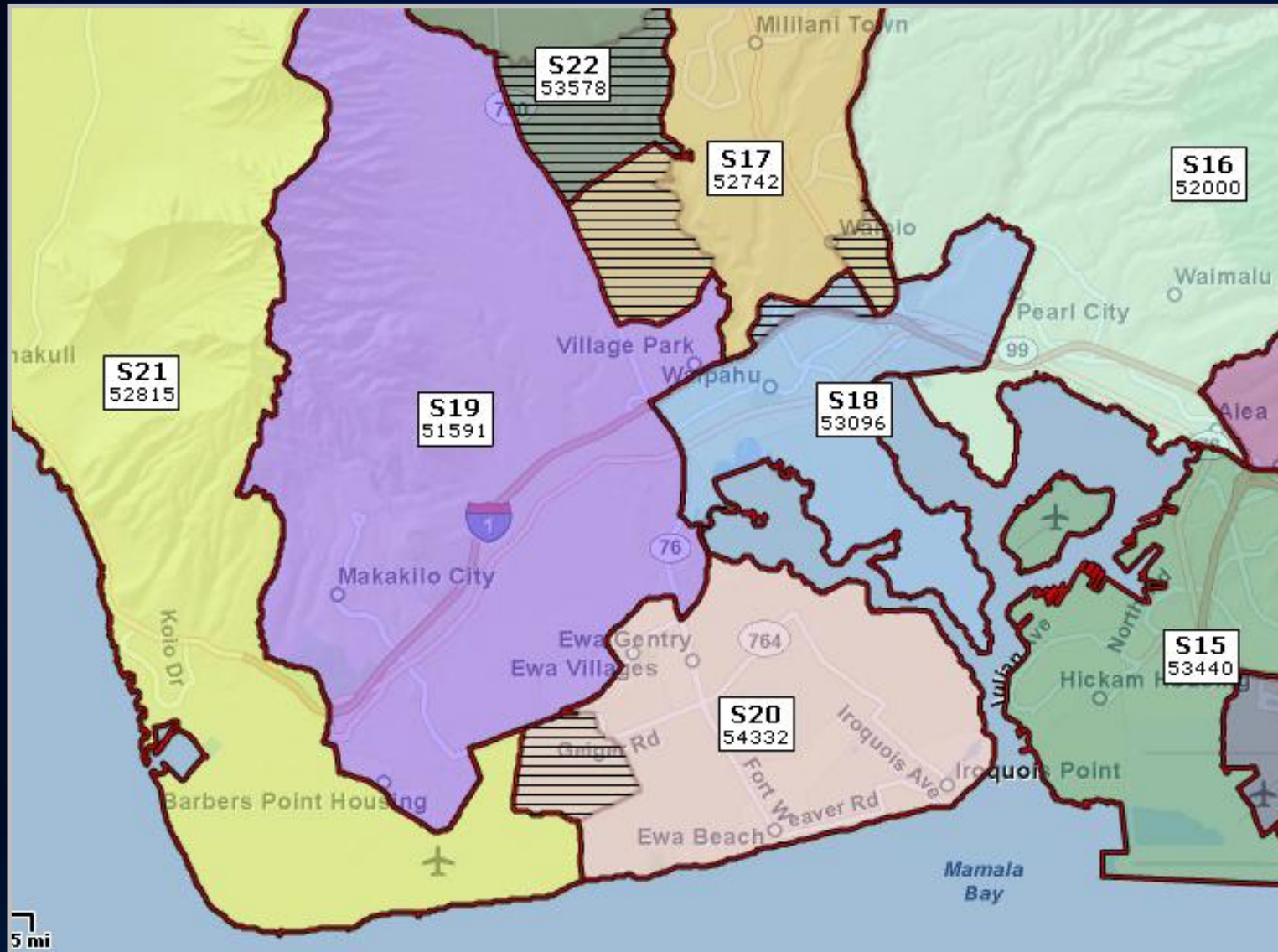
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		52,038	-48	-0.09
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		52,162	76	0.15
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		50,370	-1,716	-3.29
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		51,134	-952	-1.83
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		51,948	-138	-0.26
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		52,582	496	0.95
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		52,704	618	1.19
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		53,440	1,354	2.60
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		52,000	-86	-0.17
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		52,742	656	1.26
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		53,096	1,010	1.94
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		51,591	-495	-0.95
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		54,332	2,246	4.31
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		52,815	729	1.40
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		53,578	1,492	2.86
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		50,666	-1,420	-2.73
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		49,905	-2,181	-4.19
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		50,444	-1,642	-3.15

Number of Districts: 18 Target Mean = 52,086
 Maximum Dev. (%): 10

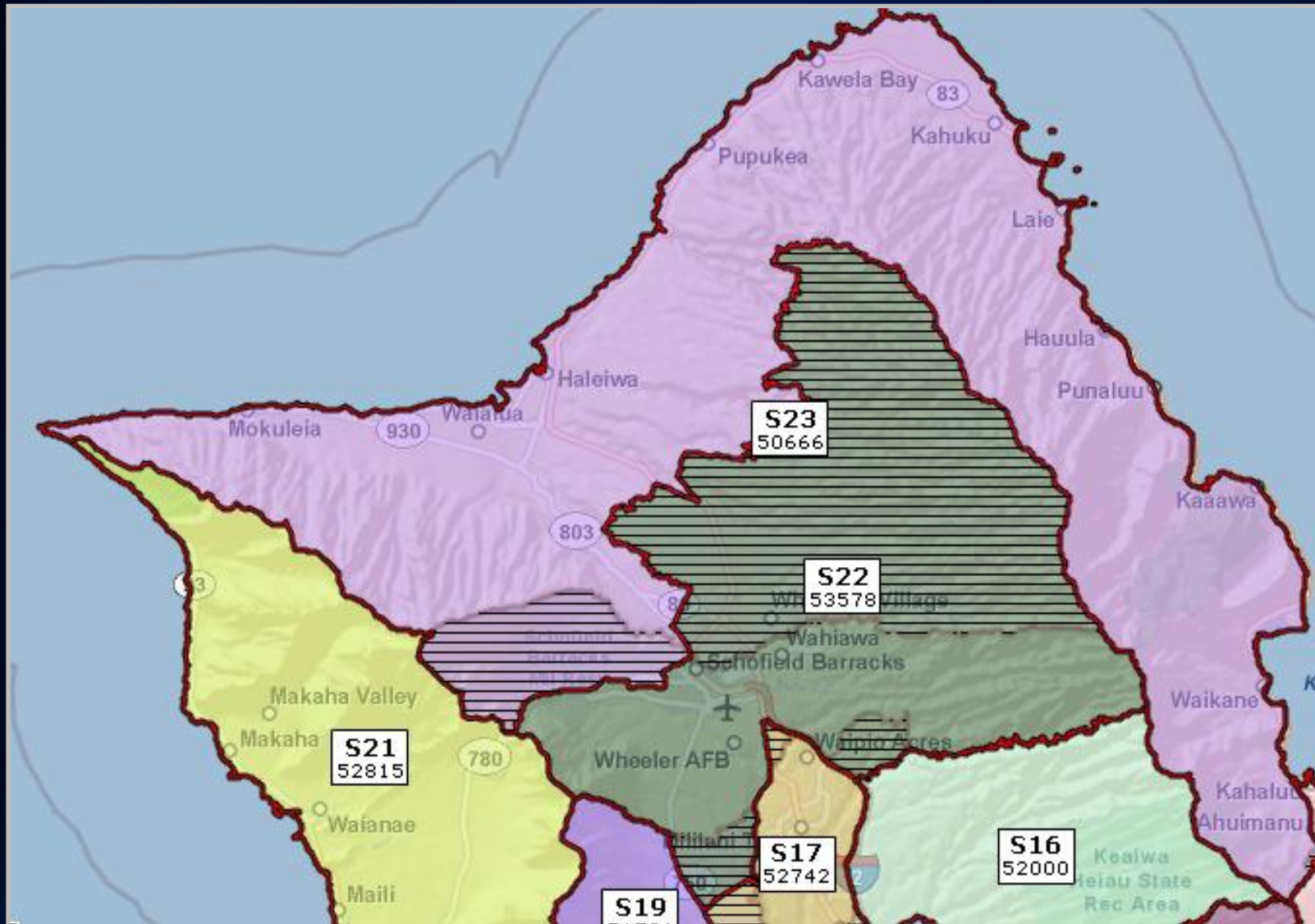
Recommended Final Plan – Senate Oahu



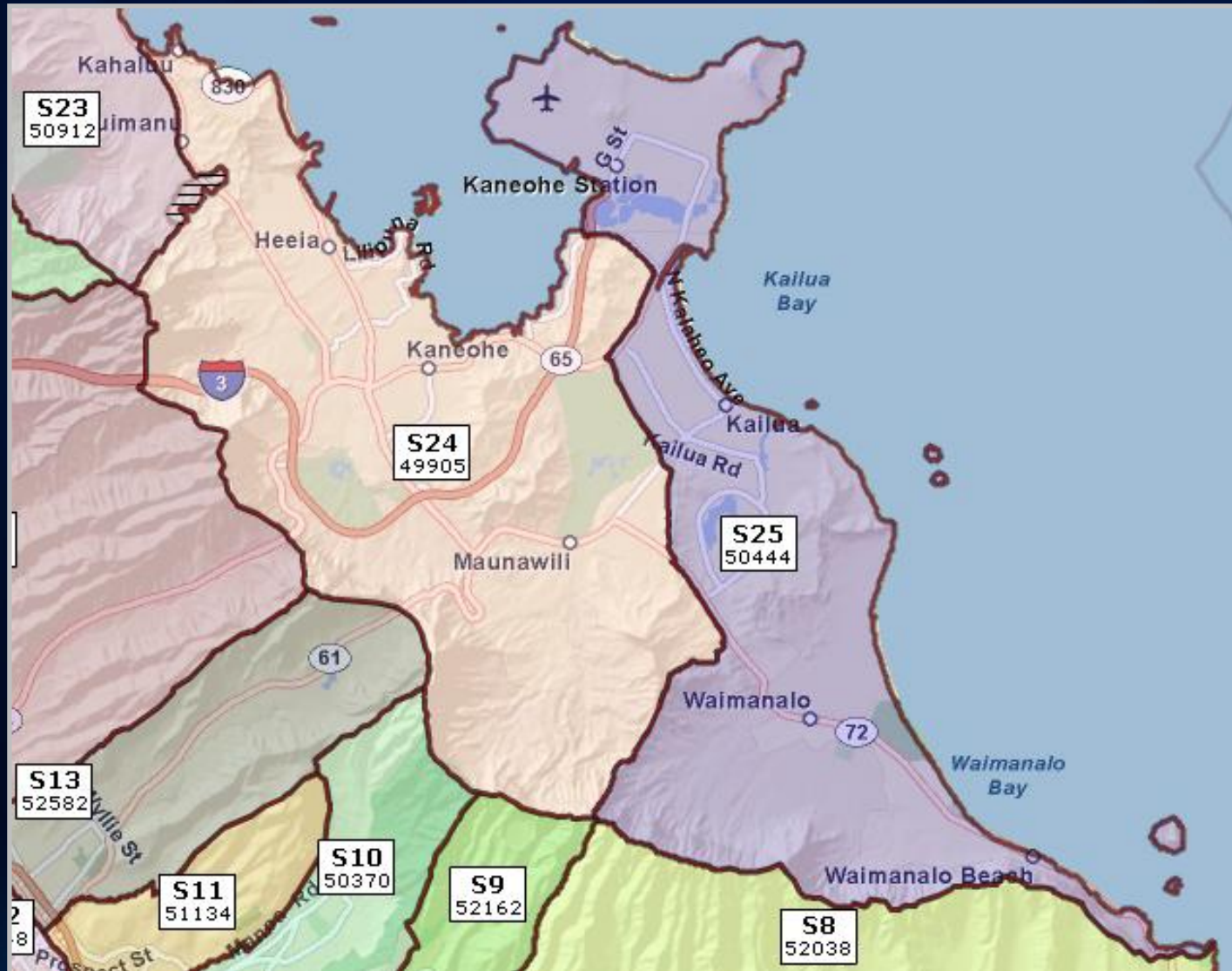
Recommended Final Plan – Senate Oahu



Recommended Final Plan – Senate Oahu



Recommended Final Plan – Senate Oahu



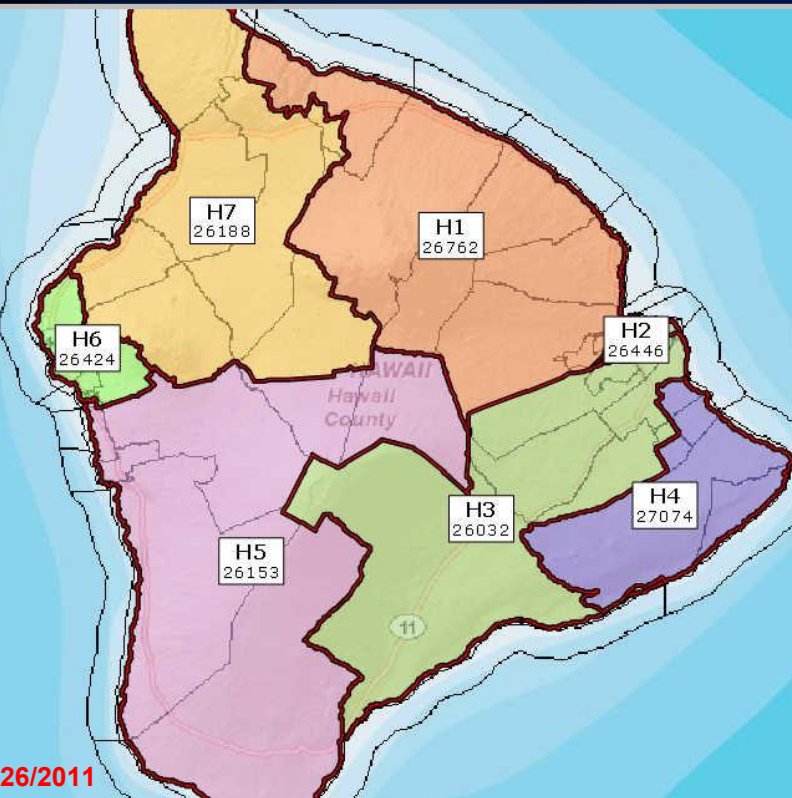
Aug 5 Proposed Plan – House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

Plan: House Hawaii
 Districts: seven (House 1 - 7)
 Target Population: 26,440 per district

PROPOSED PLAN: HOUSE HAWAII

Plan Deviation: **3.94%**
 highest deviation: 2.40%
 lowest deviation: -1.54%



District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 1	<input type="checkbox"/>	<input type="checkbox"/>		26,762	322	1.22
House 2	<input type="checkbox"/>	<input type="checkbox"/>		26,446	6	0.02
House 3	<input type="checkbox"/>	<input type="checkbox"/>		26,032	-408	-1.54
House 4	<input type="checkbox"/>	<input type="checkbox"/>		27,074	634	2.40
House 5	<input type="checkbox"/>	<input type="checkbox"/>		26,153	-287	-1.09
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,424	-16	-0.06
House 7	<input type="checkbox"/>	<input type="checkbox"/>		26,188	-252	-0.95

Number of Districts: 7 Target Mean = 26,440
 Maximum Dev. (%): 10 [Swap...](#) [Rename...](#)

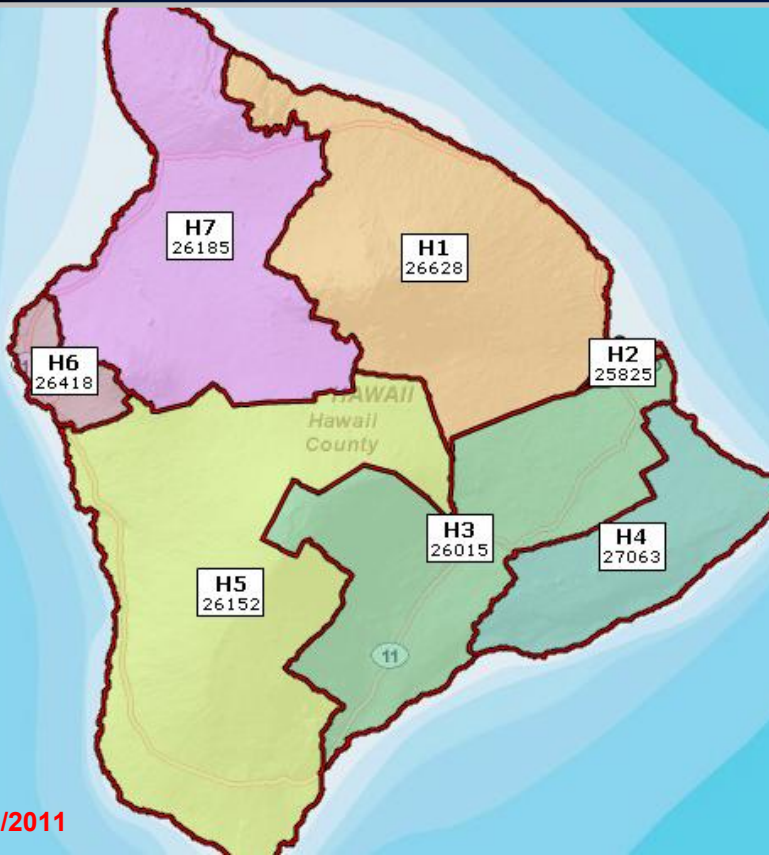
Recommended Final Plan – House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

Plan: Hawaii House
 Districts: seven (House 1 - 7)
 Target Population: 26,327 per district

FINAL PLAN: HAWAII HOUSE

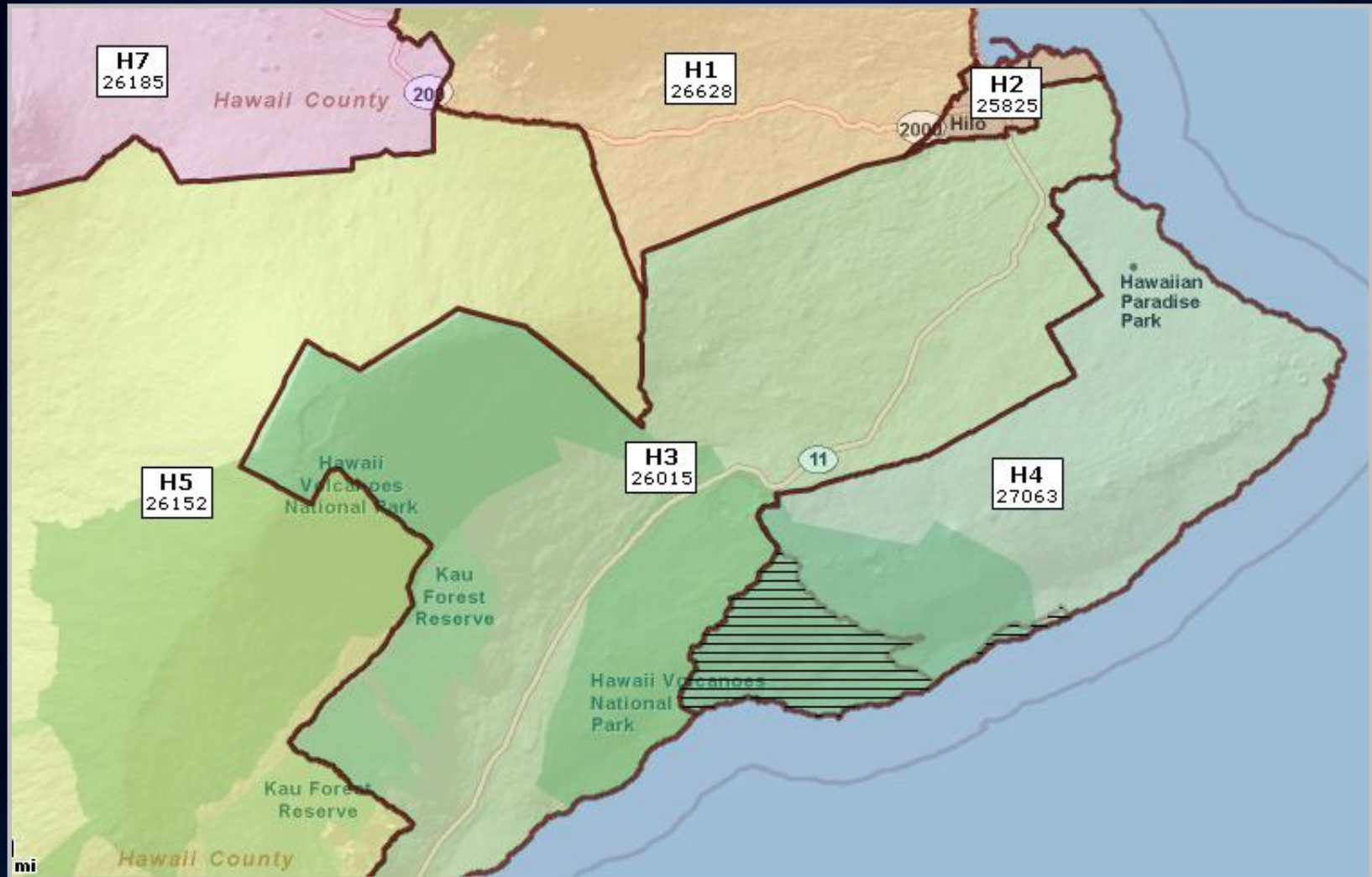
Plan Deviation: 4.71%
 highest deviation: 2.80%
 lowest deviation: -1.91%



District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 1	<input type="checkbox"/>	<input type="checkbox"/>		26,628	301	1.14	
House 2	<input type="checkbox"/>	<input type="checkbox"/>		25,825	-502	-1.91	
House 3	<input type="checkbox"/>	<input type="checkbox"/>		26,015	-312	-1.19	
House 4	<input type="checkbox"/>	<input type="checkbox"/>		27,063	736	2.80	
House 5	<input type="checkbox"/>	<input type="checkbox"/>		26,152	-175	-0.66	
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,418	91	0.35	
House 7	<input type="checkbox"/>	<input type="checkbox"/>		26,185	-142	-0.54	

Number of Districts: 7 Target Mean = 26,327
 Maximum Dev. (%): 10 Swap... Rename...

Recommended Final Plan – House Hawaii



Aug 5 Proposed Plan – House Maui

HAWAII REAPPORTIONMENT COMMISSION

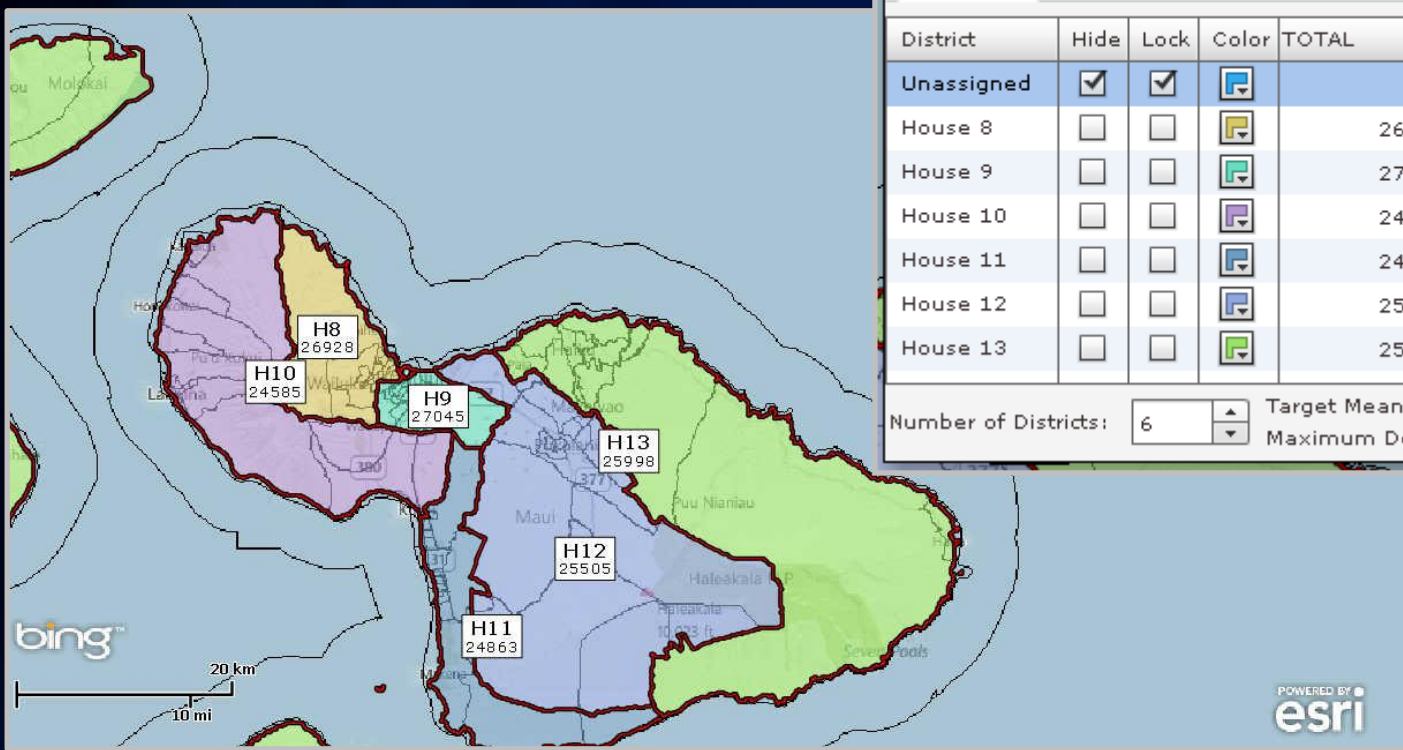
PROPOSED PLAN: HOUSE MAUI

Plan: House Maui
 Districts: six (House 8 - 13)
 Target Population: 25,821 per district

Plan Deviation: **9.53%**
 highest deviation: 4.74%
 lowest deviation: -4.79%

District Statistics							
Current	Proposed	Assigned	Comparison				
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 8	<input type="checkbox"/>	<input type="checkbox"/>		26,928	1,107	4.29	
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,045	1,224	4.74	
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,236	-4.79	
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,863	-958	-3.71	
House 12	<input type="checkbox"/>	<input type="checkbox"/>		25,505	-316	-1.22	
House 13	<input type="checkbox"/>	<input type="checkbox"/>		25,998	177	0.69	

Number of Districts: 6 Target Mean = 25,821
 Maximum Dev. (%): 10 Swap... Rename...



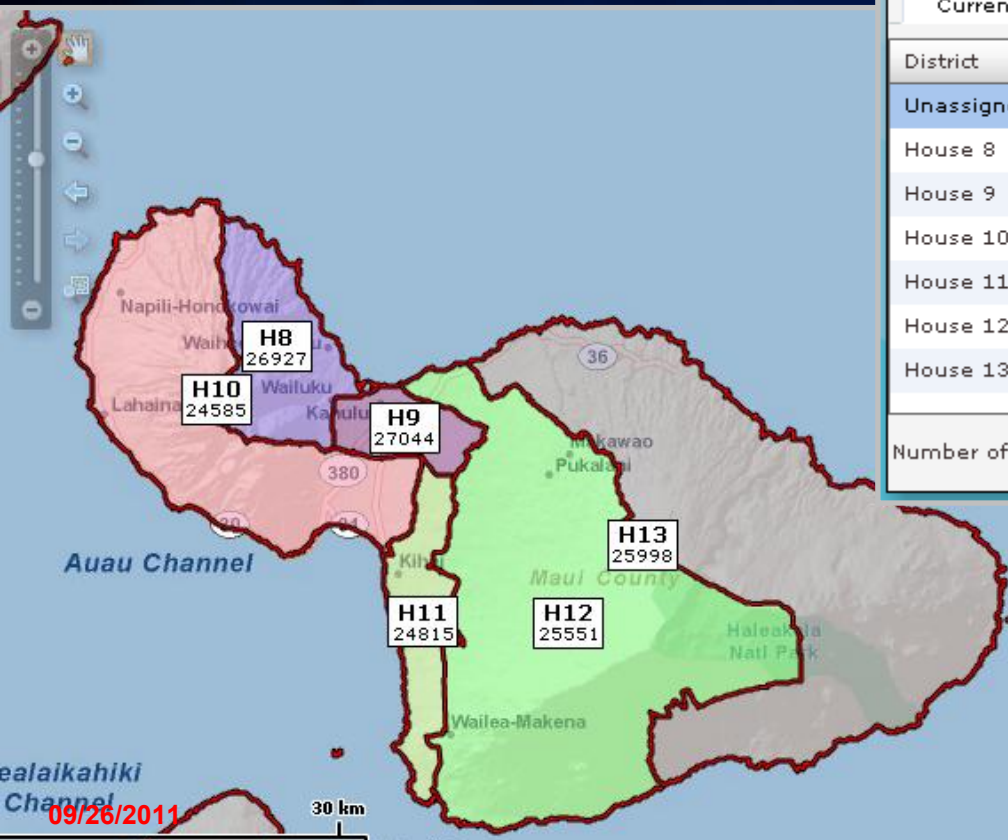
Recommended Final Plan – House Maui

HAWAII REAPPORTIONMENT COMMISSION

Plan: Maui House
 Districts: six (House 8 - 13)
 Target Population: 25,820 per district

FINAL PLAN: MAUI HOUSE

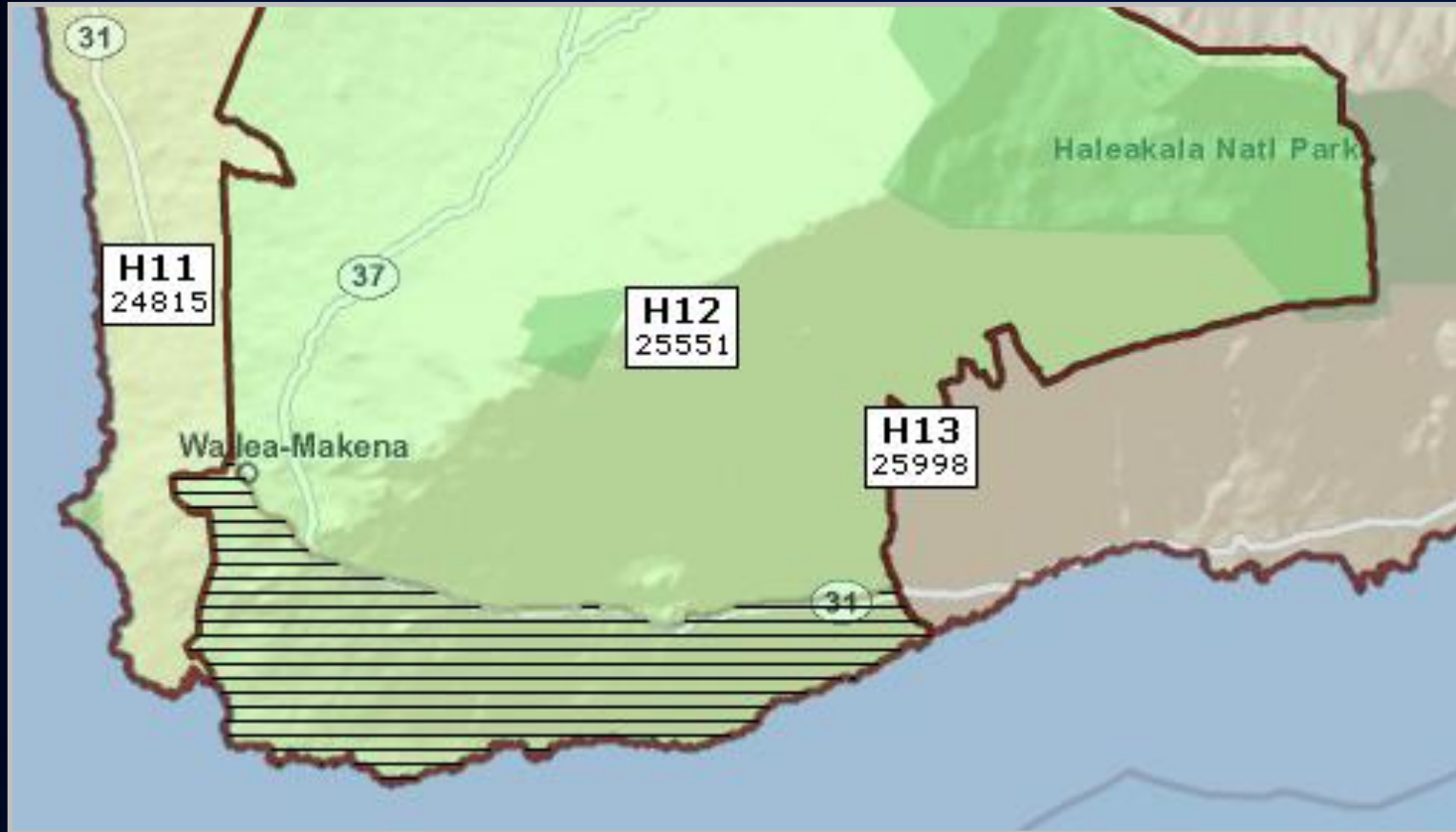
Plan Deviation: 9.52%
 highest deviation: 4.74%
 lowest deviation: -4.78%



Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 8	<input type="checkbox"/>	<input type="checkbox"/>		26,927	1,107	4.29	
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,044	1,224	4.74	
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,235	-4.78	
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,815	-1,005	-3.89	
House 12	<input type="checkbox"/>	<input type="checkbox"/>		25,551	-269	-1.04	
House 13	<input type="checkbox"/>	<input type="checkbox"/>		25,998	178	0.69	

Number of Districts: 6 Target Mean = 25,820
 Maximum Dev. (%): 10 Swap... Rename...

Recommended Final Plan – House Maui



Aug 5 Proposed Plan – House Kauai

HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: HOUSE KAUAI

Plan: House Kauai
 Districts: three (House 14 - 16)
 Target Population: 22,364 per district

Plan Deviation: **8.83%**
 highest deviation: 3.42%
 lowest deviation: -5.41%



	Current	Proposed	Assigned	Comparison		
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,810	446	1.99
House 15	<input type="checkbox"/>	<input type="checkbox"/>		23,128	764	3.42
House 16	<input type="checkbox"/>	<input type="checkbox"/>		21,153	-1,211	-5.41

Number of Districts: Target Mean = 22,364
 Maximum Dev. (%): 10

Recommended Final Plan – House Kauai

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: KAUAI HOUSE

Plan: Kauai House
 Districts: three (House 14 - 16)
 Target Population: 22,363 per district

Plan Deviation: **3.82%**
 highest deviation: 1.99%
 lowest deviation: -1.82%



District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,809	446	1.99	
House 15	<input type="checkbox"/>	<input type="checkbox"/>		21,955	-408	-1.82	
House 16	<input type="checkbox"/>	<input type="checkbox"/>		22,326	-37	-0.17	

Number of Districts: Target Mean = 22,363
 Maximum Dev. (%): 10

Buttons: Swap... Rename...

Recommended Proposed Final Plan – House Kauai



Aug 5 Proposed Plan – House Oahu

HAWAII REAPPORTIONMENT COMMISSION

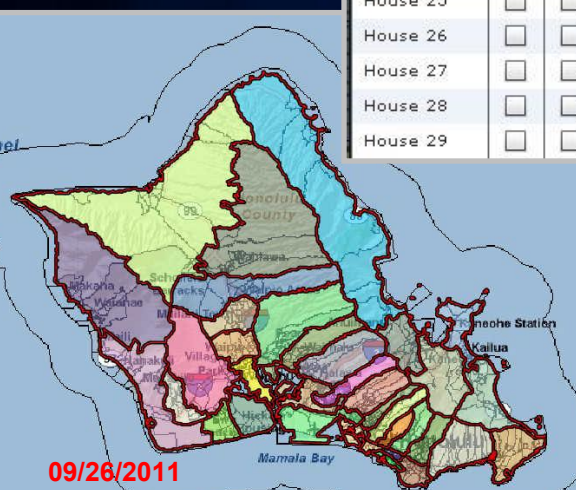
PROPOSED PLAN: HOUSE OAHU

Plan: House Oahu
 Districts: thirtyfive (House 17 - 51)
 Target Population: 27,234 per district

Plan Deviation: **9.70%**
 highest deviation: 4.88%
 lowest deviation: -4.82%

District Statistics						
Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 17	<input type="checkbox"/>	<input type="checkbox"/>		27,853	619	2.27
House 18	<input type="checkbox"/>	<input type="checkbox"/>		26,947	-287	-1.05
House 19	<input type="checkbox"/>	<input type="checkbox"/>		26,610	-624	-2.29
House 20	<input type="checkbox"/>	<input type="checkbox"/>		26,933	-301	-1.11
House 21	<input type="checkbox"/>	<input type="checkbox"/>		27,855	621	2.28
House 22	<input type="checkbox"/>	<input type="checkbox"/>		26,111	-1,123	-4.12
House 23	<input type="checkbox"/>	<input type="checkbox"/>		26,620	-614	-2.25
House 24	<input type="checkbox"/>	<input type="checkbox"/>		27,276	42	0.15
House 25	<input type="checkbox"/>	<input type="checkbox"/>		26,400	-834	-3.06
House 26	<input type="checkbox"/>	<input type="checkbox"/>		26,303	-931	-3.42
House 27	<input type="checkbox"/>	<input type="checkbox"/>		26,858	-376	-1.38
House 28	<input type="checkbox"/>	<input type="checkbox"/>		27,917	683	2.51
House 29	<input type="checkbox"/>	<input type="checkbox"/>		27,613	379	1.39

House 30	<input type="checkbox"/>	<input type="checkbox"/>		26,864	-370	-1.36
House 31	<input type="checkbox"/>	<input type="checkbox"/>		27,360	126	0.46
House 32	<input type="checkbox"/>	<input type="checkbox"/>		28,127	893	3.28
House 33	<input type="checkbox"/>	<input type="checkbox"/>		27,421	187	0.69
House 34	<input type="checkbox"/>	<input type="checkbox"/>		27,763	529	1.94
House 35	<input type="checkbox"/>	<input type="checkbox"/>		27,291	57	0.21
House 36	<input type="checkbox"/>	<input type="checkbox"/>		26,798	-436	-1.60
House 37	<input type="checkbox"/>	<input type="checkbox"/>		28,172	938	3.44
House 38	<input type="checkbox"/>	<input type="checkbox"/>		28,562	1,328	4.88
House 39	<input type="checkbox"/>	<input type="checkbox"/>		28,439	1,205	4.42
House 40	<input type="checkbox"/>	<input type="checkbox"/>		28,502	1,268	4.66
House 41	<input type="checkbox"/>	<input type="checkbox"/>		27,942	708	2.60
House 42	<input type="checkbox"/>	<input type="checkbox"/>		27,118	-116	-0.43
House 43	<input type="checkbox"/>	<input type="checkbox"/>		27,675	441	1.62
House 44	<input type="checkbox"/>	<input type="checkbox"/>		26,194	-1,040	-3.82
House 45	<input type="checkbox"/>	<input type="checkbox"/>		27,610	376	1.38
House 46	<input type="checkbox"/>	<input type="checkbox"/>		28,177	943	3.46
House 47	<input type="checkbox"/>	<input type="checkbox"/>		26,483	-751	-2.76
House 48	<input type="checkbox"/>	<input type="checkbox"/>		25,922	-1,312	-4.82
House 49	<input type="checkbox"/>	<input type="checkbox"/>		26,284	-950	-3.49
House 50	<input type="checkbox"/>	<input type="checkbox"/>		26,452	-782	-2.87
House 51	<input type="checkbox"/>	<input type="checkbox"/>		26,755	-479	-1.76



Recommended Final Plan – House Oahu

HAWAII REAPPORTIONMENT COMMISSION		FINAL PLAN: OAHU HOUSE	
Plan:	Oahu House	Plan Deviation:	9.46%
Districts:	thirtyfive (House 17 - 51)	highest deviation:	4.85%
Target Population:	26,787 per district	lowest deviation:	-4.61%

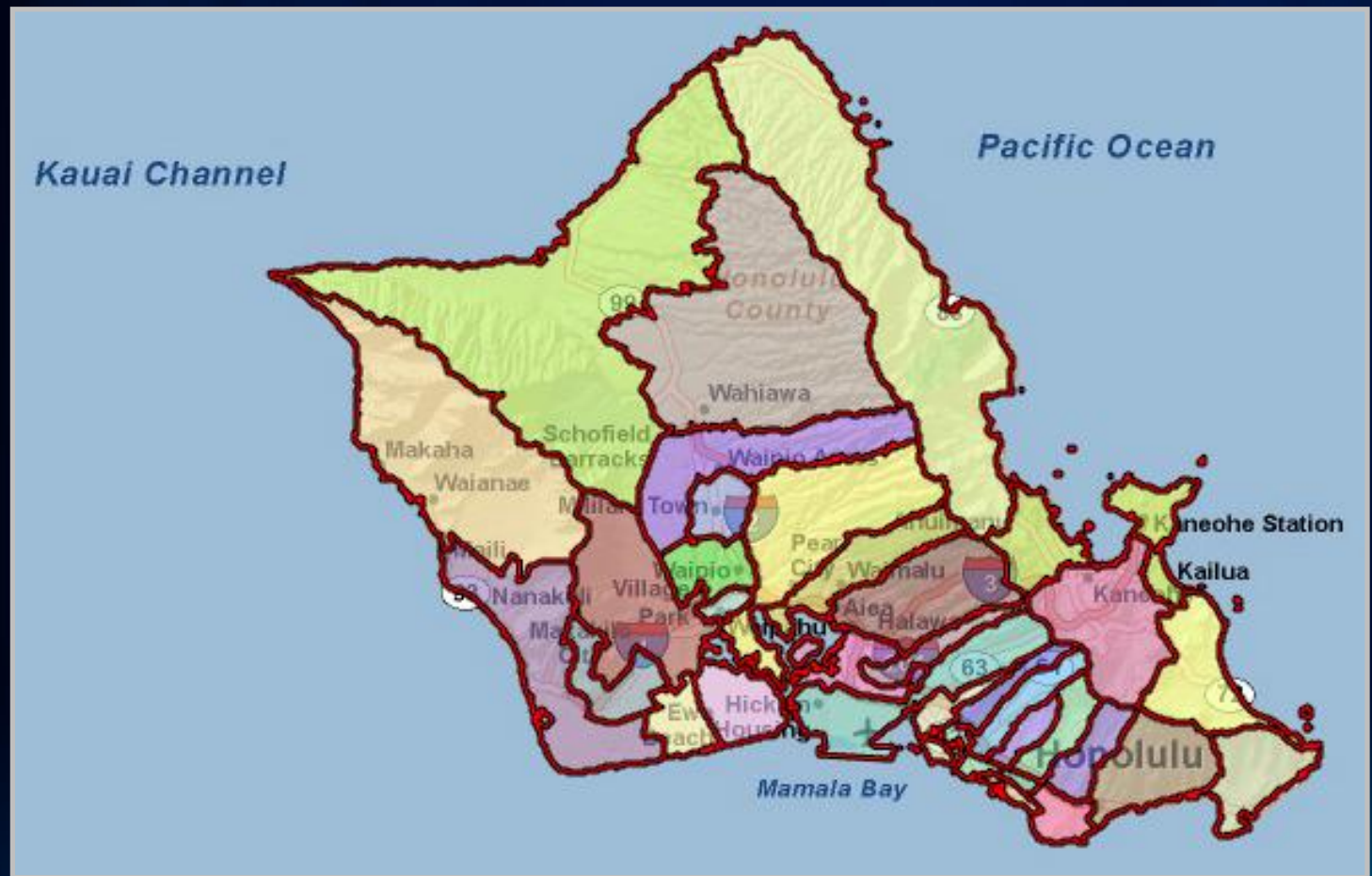
District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 17	<input type="checkbox"/>	<input type="checkbox"/>		26,937	150	0.56	
House 18	<input type="checkbox"/>	<input type="checkbox"/>		27,256	469	1.75	
House 19	<input type="checkbox"/>	<input type="checkbox"/>		27,120	333	1.24	
House 20	<input type="checkbox"/>	<input type="checkbox"/>		26,898	111	0.41	
House 21	<input type="checkbox"/>	<input type="checkbox"/>		26,970	183	0.68	
House 22	<input type="checkbox"/>	<input type="checkbox"/>		27,693	906	3.38	
House 23	<input type="checkbox"/>	<input type="checkbox"/>		25,969	-818	-3.05	
House 24	<input type="checkbox"/>	<input type="checkbox"/>		25,889	-898	-3.35	
House 25	<input type="checkbox"/>	<input type="checkbox"/>		26,299	-488	-1.82	
House 26	<input type="checkbox"/>	<input type="checkbox"/>		26,599	-188	-0.70	
House 27	<input type="checkbox"/>	<input type="checkbox"/>		26,173	-614	-2.29	
House 28	<input type="checkbox"/>	<input type="checkbox"/>		27,593	806	3.01	
House 29	<input type="checkbox"/>	<input type="checkbox"/>		26,540	-247	-0.92	
House 30	<input type="checkbox"/>	<input type="checkbox"/>		26,787	0	0.00	
House 31	<input type="checkbox"/>	<input type="checkbox"/>		26,149	-638	-2.38	
House 32	<input type="checkbox"/>	<input type="checkbox"/>		27,109	322	1.20	

House 33	<input type="checkbox"/>	<input type="checkbox"/>		26,747	-40	-0.15
House 34	<input type="checkbox"/>	<input type="checkbox"/>		27,473	686	2.56
House 35	<input type="checkbox"/>	<input type="checkbox"/>		26,822	35	0.13
House 36	<input type="checkbox"/>	<input type="checkbox"/>		26,502	-285	-1.06
House 37	<input type="checkbox"/>	<input type="checkbox"/>		27,430	643	2.40
House 38	<input type="checkbox"/>	<input type="checkbox"/>		27,461	674	2.52
House 39	<input type="checkbox"/>	<input type="checkbox"/>		26,057	-730	-2.73
House 40	<input type="checkbox"/>	<input type="checkbox"/>		27,590	803	3.00
House 41	<input type="checkbox"/>	<input type="checkbox"/>		27,706	919	3.43
House 42	<input type="checkbox"/>	<input type="checkbox"/>		27,421	634	2.37
House 43	<input type="checkbox"/>	<input type="checkbox"/>		28,086	1,299	4.85
House 44	<input type="checkbox"/>	<input type="checkbox"/>		26,170	-617	-2.30
House 45	<input type="checkbox"/>	<input type="checkbox"/>		27,602	815	3.04
House 46	<input type="checkbox"/>	<input type="checkbox"/>		27,999	1,212	4.52
House 47	<input type="checkbox"/>	<input type="checkbox"/>		25,553	-1,234	-4.61
House 48	<input type="checkbox"/>	<input type="checkbox"/>		25,716	-1,071	-4.00
House 49	<input type="checkbox"/>	<input type="checkbox"/>		25,772	-1,015	-3.79
House 50	<input type="checkbox"/>	<input type="checkbox"/>		25,702	-1,085	-4.05
House 51	<input type="checkbox"/>	<input type="checkbox"/>		25,757	-1,030	-3.85

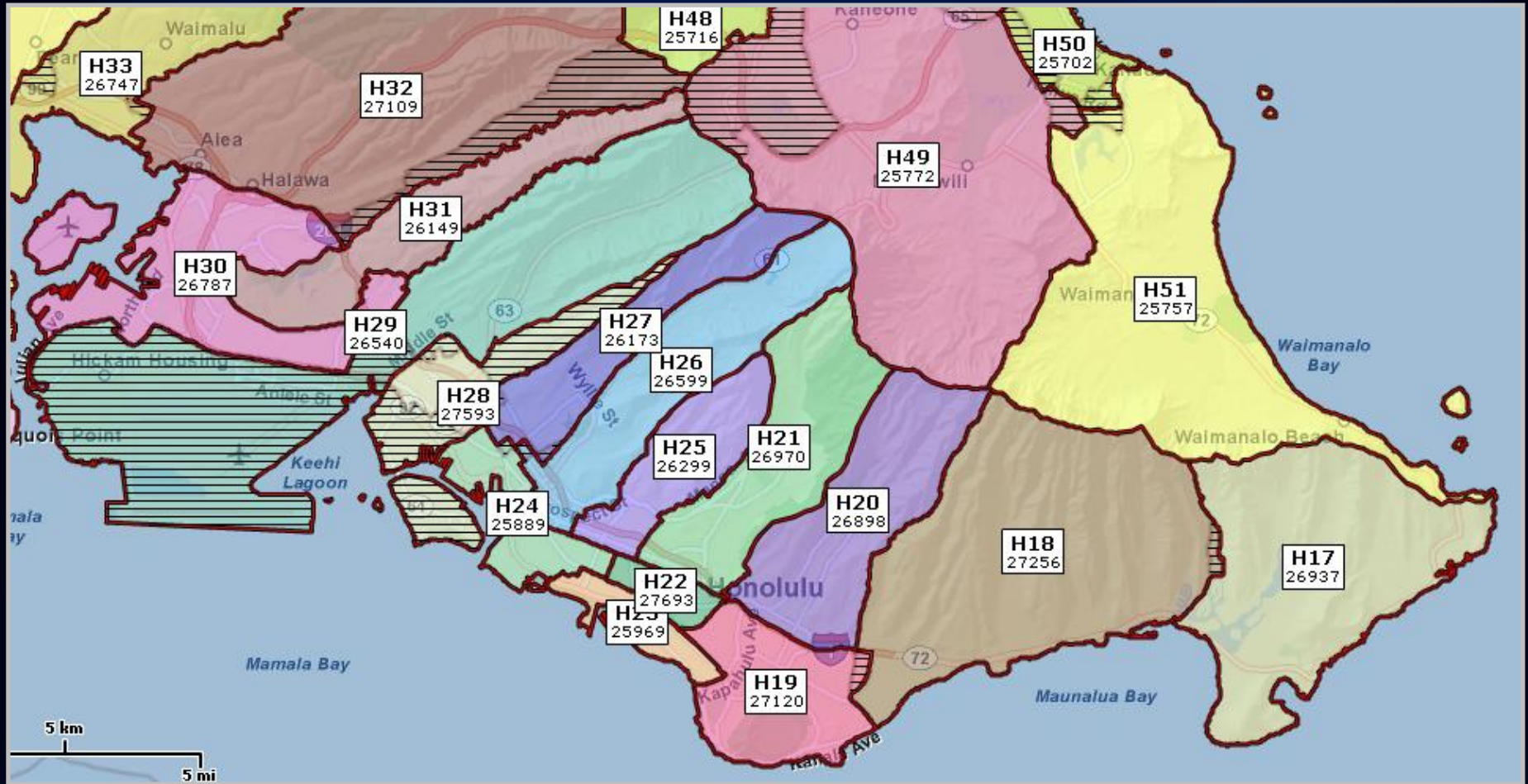
Number of Districts: 35 Target Mean = 26,787
 Maximum Dev. (%): 10 Swap... Rename...

Recommended Final Plan – House Oahu

<u>HAWAII REAPPORTIONMENT COMMISSION</u>		FINAL PLAN: OAHU HOUSE	
Plan:	Oahu House	Plan Deviation:	9.46%
Districts:	thirtyfive (House 17 - 51)	highest deviation:	4.85%
Target Population:	26,787 per district	lowest deviation:	-4.61%



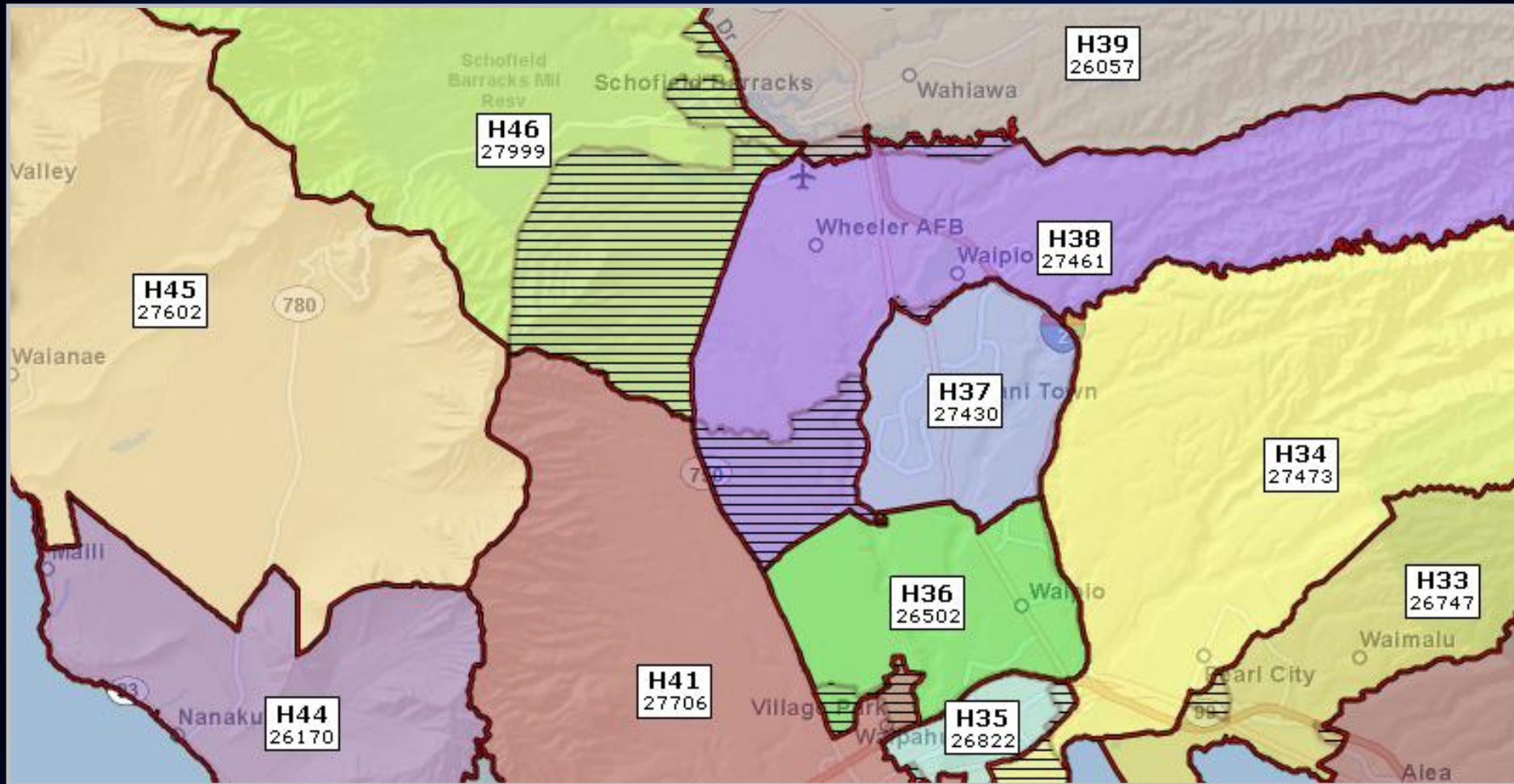
Recommended Final Plan – House Oahu



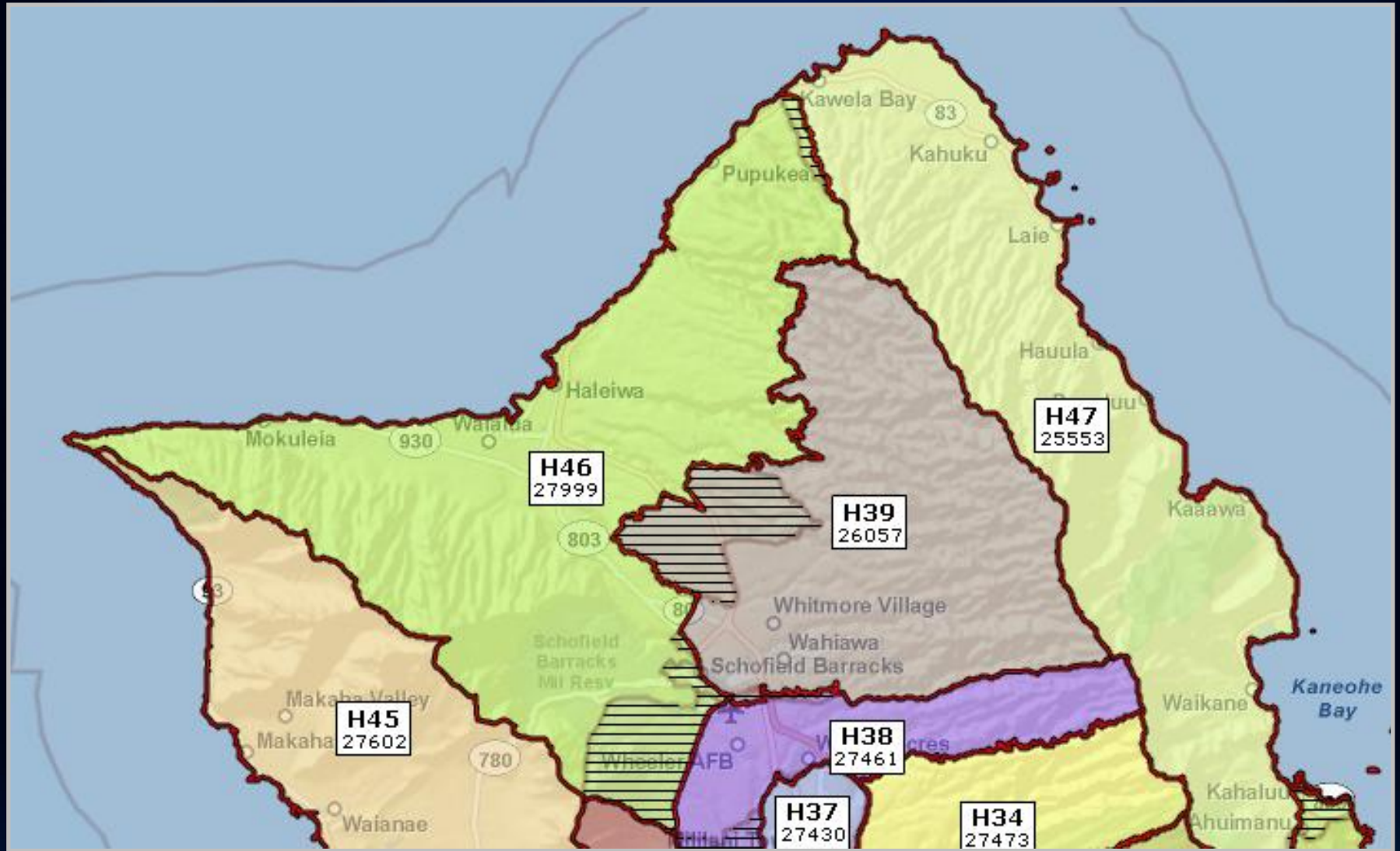
Recommended Final Plan – House Oahu



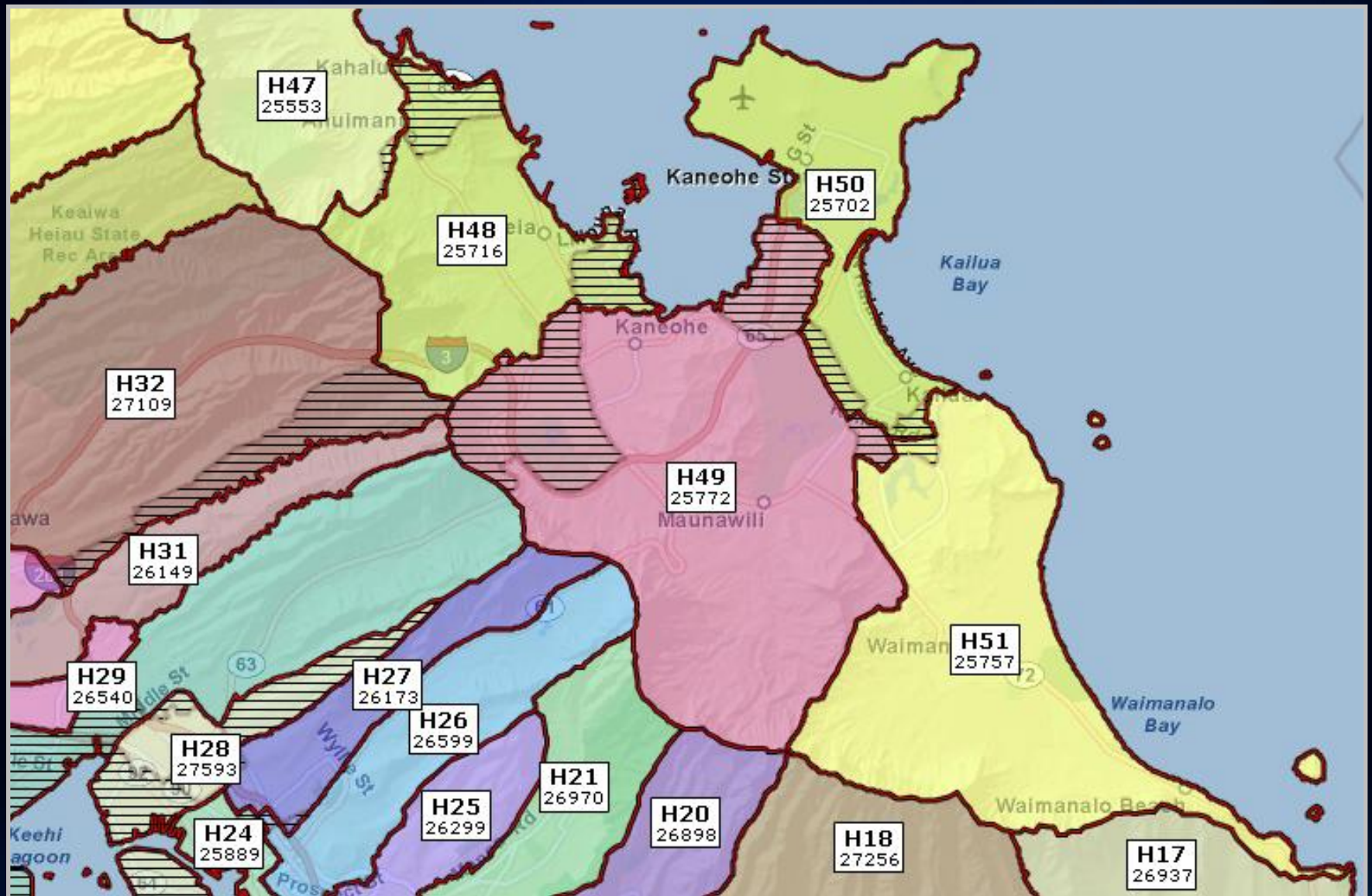
Recommended Final Plan – House Oahu



Recommended Final Plan – House Oahu



Recommended Final Plan – House Oahu



Topics

- Reapportionment using “Extraction A” population base
- Senate Staggered Terms for 2012
- Hawaii Reapportionment Commission Plan
 - Congress
 - Senate
 - House

 • Commission Schedule

Commission Schedule

- Aug 5** **Commission Meeting: Adopt proposed plan**
- Aug 30 – Sep 16** **Public Hearings and Comment Period**
- Sep 26** **Commission Meeting**
- Sep 26** **Statutory deadline to file final plan with Chief Election Officer**
- Oct 10** **Statutory deadline for Chief Election Officer to publish final plan**
- Dec 29** **Statutory deadline to submit final report to State Legislature**



Hawaii Reapportionment Commission

26 September 2011

Commission Meeting

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

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