University of Hawai'i Second Decade

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Vice President for
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Revised as of
April 13, 2006

2nDecade

Purpose

- To identify the higher education needs of the State of Hawai'i in the next decade;
- To determine those needs that should be met by which of the campuses within the UH system; and
- To determine the means by which those responsibilities should be financed.

Purpose (Short-Term)

- To determine the relative priority of state higher education needs by region of the state
- To use this information to inform the 2007–09 Biennium Budget proposal development

UH's Primary Mission

"... to provide environments in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom, and values that will help ensure the survival of the present and future generations with improvement in the quality of life."

Source: University of Hawai'i Board of Regents Policies and Bylaws, Chapter 4, Planning, 2002

Guidance from BOR Policy

"The problems left by the tremendous expansion we have already experienced, the needs and aspirations of the citizens of Hawai'i, and the constraints on resources and time—all these require the University to develop an explicit statement of priorities and an orderly and reasonable plan for its further growth."

"Not everything desired by the University can be accomplished and, certainly, not all at once."

Source: University of Hawai'i Board of Regents Policies and Bylaws, Chapter 4, Planning, 2002

Underlying Principles

 Benefit of a single cohesive system of higher education

A System of Campuses

- Geographically accessible entry points
- Flexibility for students to move within a system
- Cohesive response to state needs
- Coordinated leadership for resource acquisition and allocation

Source: University of Hawai'i Strategic Plan: Entering the University's Second Century, 2002-2010

Underlying Principles

- Benefit of a single cohesive system of higher education
- Need for mission differentiation

Mission Differentiation

- UH Mānoa is a doctoral/research university with selective admissions. It offers baccalaureate, master's, and PhD degrees in an array of liberal arts and professional fields, degrees in law and medicine and carries out organized research activities.
- UH Hilo is a comprehensive, primarily baccalaureate institution with a regional mission, offering baccalaureate degrees in the liberal arts, agriculture, nursing, and business, as well as selected master's degrees.

Source: University of Hawai'i Board of Regents Policies and Bylaws, Chapter 4, Planning

Mission Differentiation (cont.)

- UH West O'ahu is an upper division institution that will eventually become a four-year campus.
 It offers baccalaureate degrees in the liberal arts and selected professional studies.
- UH Community Colleges are a system of opendoor, low-tuition institutions offering associate degrees and certificate programs in academic, technical, and occupational subjects.

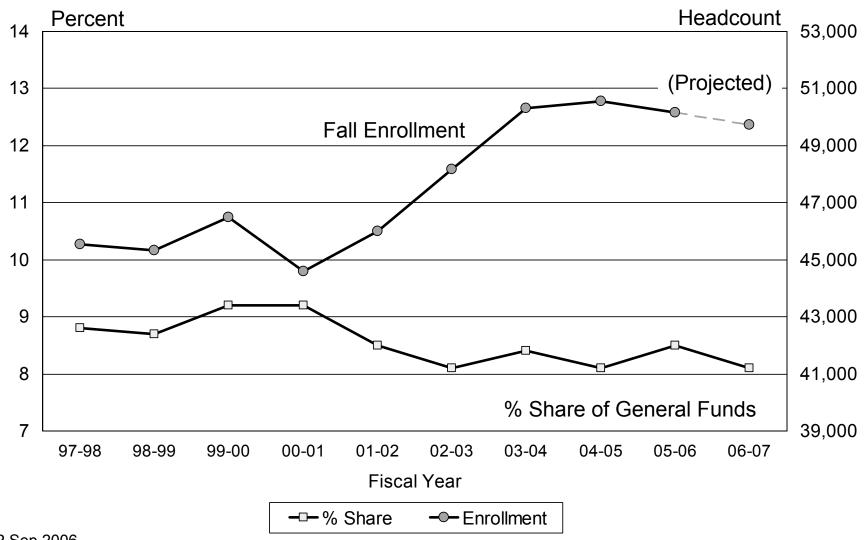
Source: University of Hawai'i Board of Regents Policies and Bylaws, Chapter 4, Planning

Underlying Principles

- Benefit of a single cohesive system of higher education
- Need for mission differentiation
- Obligation to invest available resources effectively

Level of Current Funding

UH Enrollment and Share of State General Funds



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Note: UHCC enrollment projections are preliminary.

State and Local Surplus or Shortfall as a Percent of Baseline Revenues in Year 2013

Rank	State I	Percent	Rank	State	Percent	Rank	State	Percent
1	New Hampshire	-0.5	18	Colorado	-4.4	34	lowa	-6.3
2	Delaware	-1.0	19	West Virginia	-4.8	35	Indiana	-6.5
3	New Jersey	-1.0	20	Kentucky	-4.8	36	North Carolina	-6.7
4	Maine	-1.6	21	Michigan	-4.8	37	Florida	-6.8
5	Maryland	-2.1	22	Arizona	-5.1	38	Idaho	-6.9
6	Massachusetts	-2.3	23	New York	-5.2	39	South Carolina	-7.0
7	Wisconsin	-2.8	24	Georgia	-5.2	40	South Dakota	-7.0
8	Vermont	-2.9	25	Hawaiʻi	-5.3	41	Missouri	-7.4
9	Ohio	-3.0	26	Illinois	-5.6	42	Washington	-8.0
10	North Dakota	-3.3	27	Pennsylvania	-5.6	43	Oregon	-8.2
11	Connecticut	-3.8	28	Alaska	-5.7	44	Texas	-8.9
12	Kansas	-3.9	29	Rhode Island	-5.7	45	Nevada	-9.3
13	Arkansas	-4.2		United States	-5.7	46	Tennessee	-9.3
14	Virginia	-4.2	30	Montana	-5.8	47	Mississippi	-9.8
15	Nebraska	-4.3	31	Utah	-5.8	48	Louisiana	-10.5
16	Oklahoma	-4.3	32	New Mexico	-5.9	49	Alabama	-10.7
17	Minnesota	-4.4	33	California	-6.2	50	Wyoming	-12.9

Source: Rockefeller Institute of Government, 2004 update (NCHEMS News, Vol 22, June 2005).

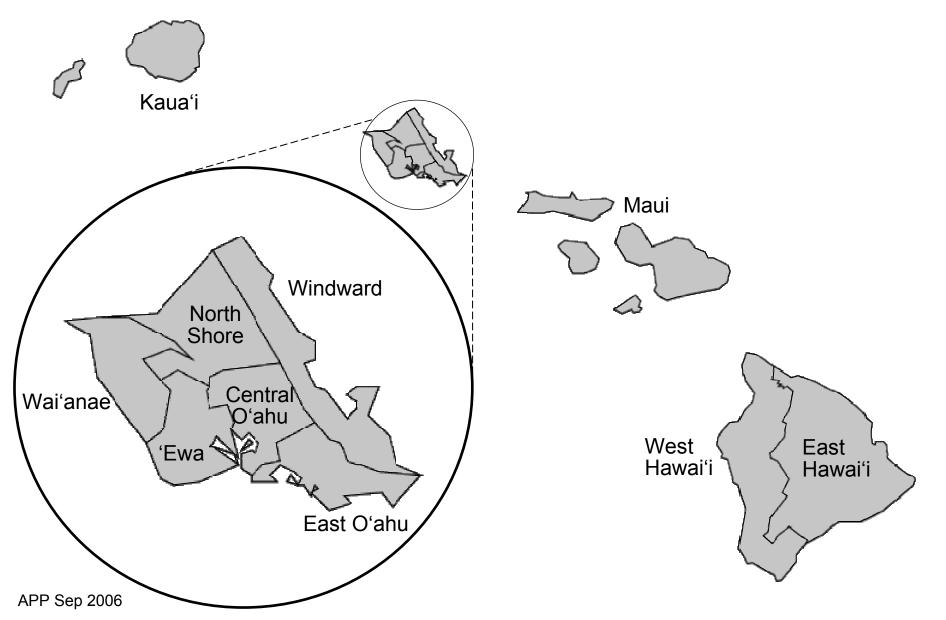
Underlying Principles

- Benefit of a single cohesive system of higher education
- Need for mission differentiation
- Obligation to invest effectively available resources
- Need to balance educational mission and economic development

Planning Context

- Population growth (# & %)
- High school graduation rates
- Income
- Workforce participation
- Educational attainment (<HS, HS, bachelor's)
- College going rate (2-yr, 4-yr)
- Job shortages (workforce needs)

State of Hawaiii, by Geographic Region



State of Hawai'i Regions

East O'ahu	<u>Windward</u>	<u>Wai'anae</u>	<u>Kauaʻi</u>	East Hawai'i
Downtown	Hauʻula	Waiʻanae	'Ele'ele	Hakalau
Waikīkī	Ka'a'awa		Hanapēpē	Hawai'i National Park
Wai'alae Kāhala	Kahuku	<u>Maui</u>	Princeville DPOBU	Hilo
Kapālama	Kailua	Haʻikū	Kalāheo	Hōnaunau
Makiki	Kāne'ohe	Hāna	Kapa'a	Honoka'a
Hawai'i Kai	Lāʻie	Hoʻolehua	Kaumakani	Honomū
Honolulu	Waimānalo	Kahului	Kekaha	Kea'au
Fort Shafter	MCBH Kāne'ohe Bay	Kaunakakai	Kīlauea	Kurtistown
		Kīhei	Kōloa	Laupāhoehoe
Central O'ahu	North Shore	Kualapu'u	Līhu'e	Mountain View
'Aiea	Hale'iwa	Lahaina	Makaweli	Nīnole
Pearl City	Wahiawā	Lāna'i City	Waimea	'O'ōkala
Mililani	Waialua	Makawao		Pā'auhau
Honolulu		Maunaloa	West Hawai'i	Pa'auilo
Hickam AFB	<u>'Ewa</u>	Pā'ia	Captain Cook	Pāhala
Pearl Harbor	'Ewa Beach	Kula	Hāwī	Pāhoa
Camp H M Smith	Kapolei	Wailuku	Hōlualoa	Pāpa'aloa
	Waipahu		Waikoloa	Pāpaʻikou
	Schofield Barracks		Kailua-Kona	Pepe'ekeo
	Pearl Harbor		Kamuela	Volcano
			Kealakekua	
			Kapa'au	

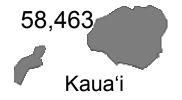
Nā'ālehu

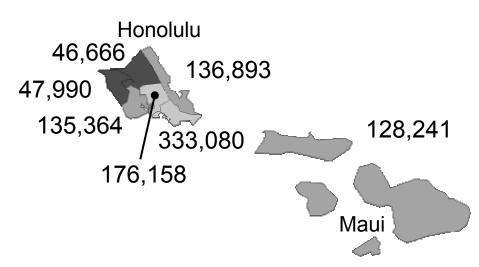
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State Population



Total Population, 2000

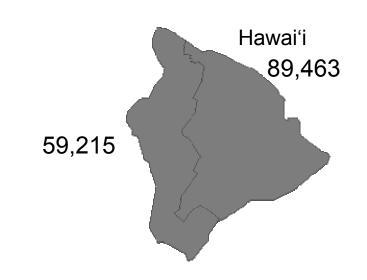




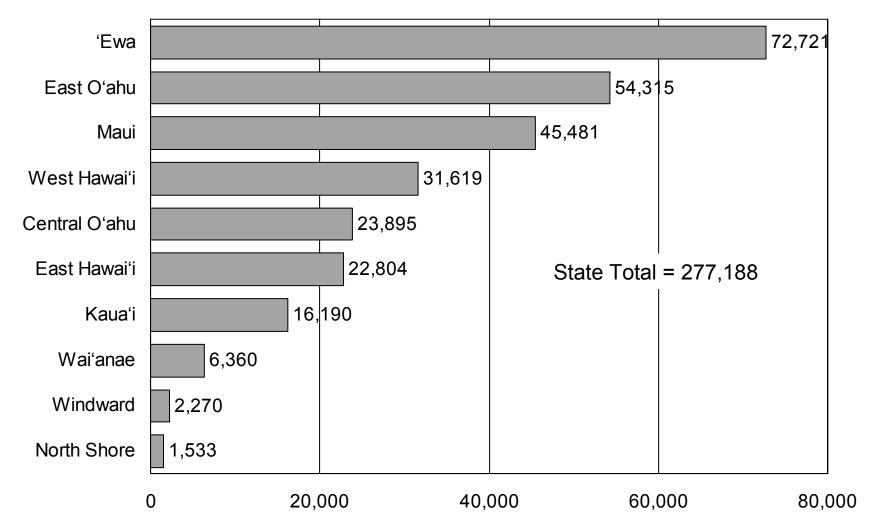
176,158 to 333,080 128,241 to 176,157 58,463 to 128,240 46,666 to 58,462

Hawai'i = 1,211,533

Note: Kalawao included with Maui County. Source: U.S. Census Bureau, 2000 Census

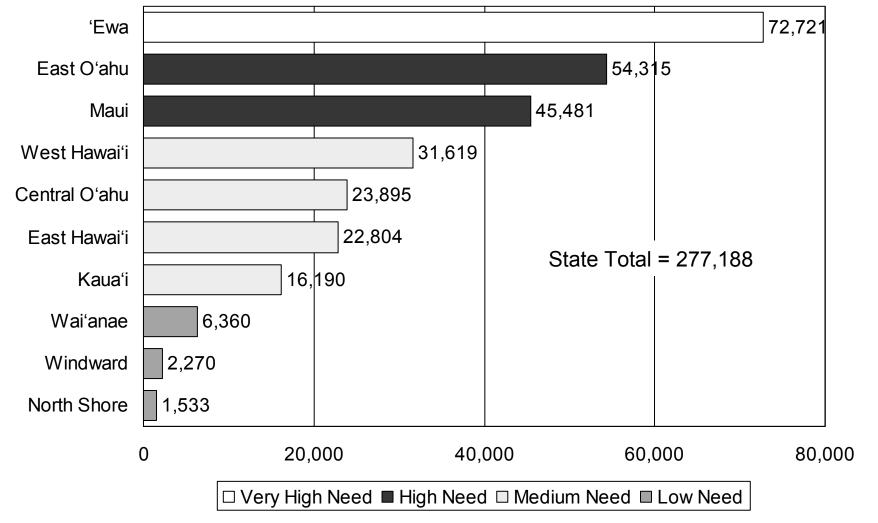


Projected Change in Population (#), 2000–2020



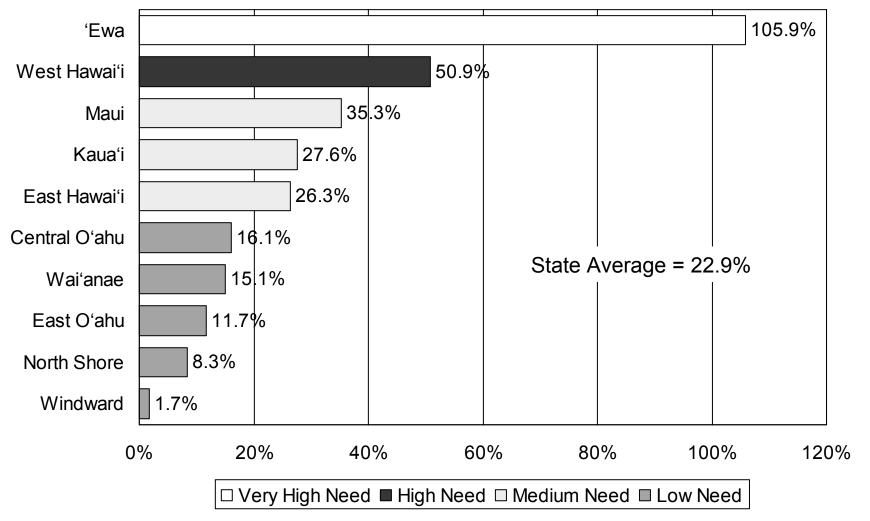
Source: Department of Business, Economic Development and Tourism, August 2004. City and County of Honolulu, Department of Planning and Permitting, 2004. County of Hawai'i General Plan, February 2005.

Relative Need for Postsecondary Ed & Training Based on Projected Change in Population (#), 2000–2020



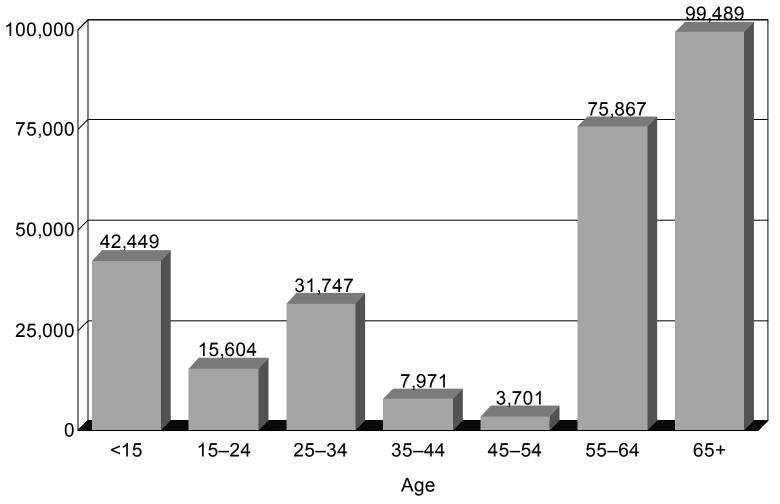
Source: Department of Business, Economic Development and Tourism, August 2004. City and County of Honolulu, Department of Planning and Permitting, 2004. County of Hawai'i General Plan, February 2005.

Relative Need for Postsecondary Ed & Training Based on Projected Change in Population (%), 2000–2020



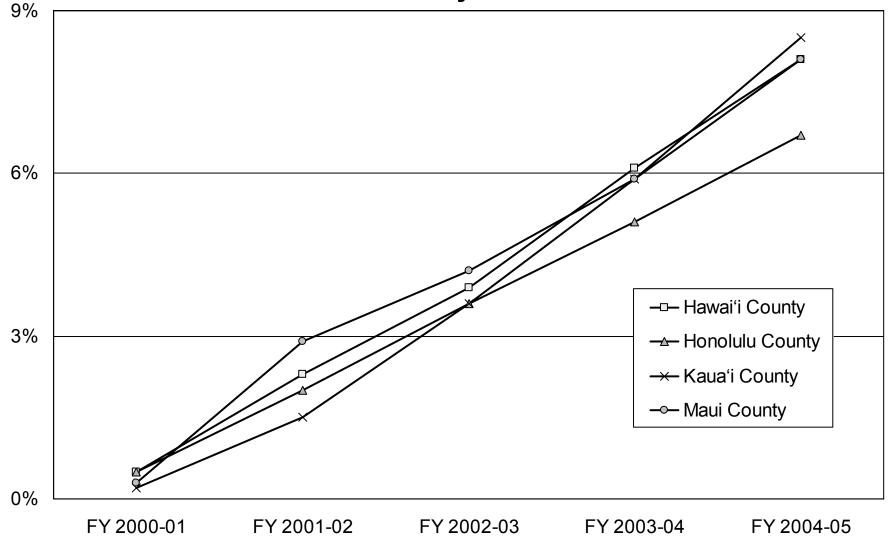
Source: Department of Business, Economic Development and Tourism, August 2004. City and County of Honolulu, Department of Planning and Permitting, 2004. County of Hawai'i General Plan, February 2005.

Projected Change in Population of Hawai'i by Age Group from 2000 to 2020



Source: U.S. Census Bureau's Population Projections and Census 2000

Population Growth, Age 65+, State & County, 2000–2004

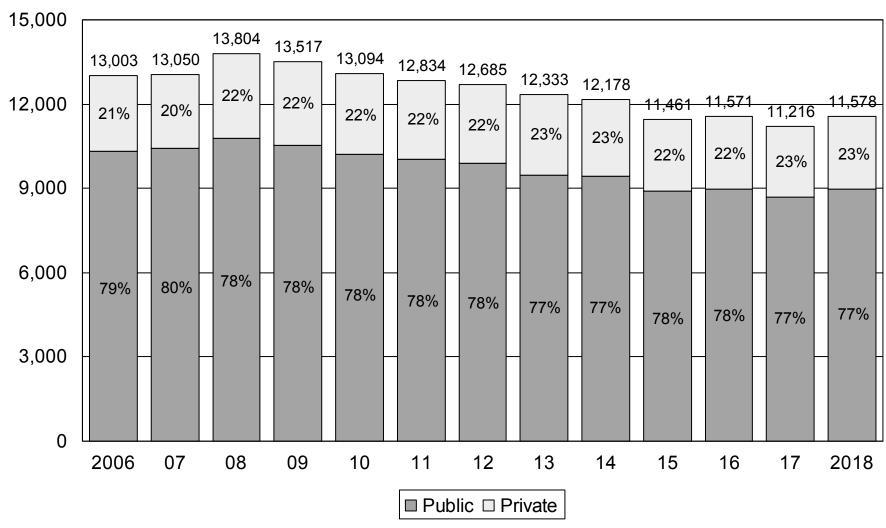


Note: Kalawao County not shown.

Source: U.S. Census population estimates.

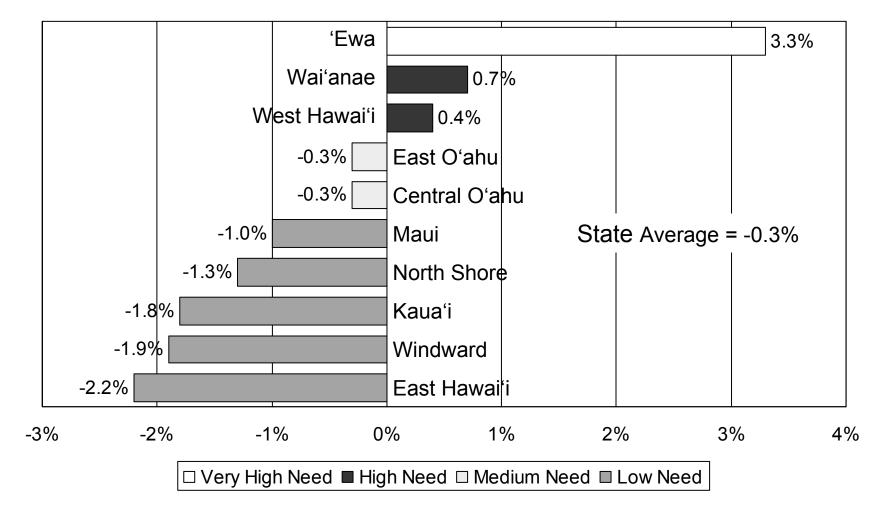
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Projected Hawai'i High School Graduates, 2005–06 Through 2017–18



Source: "Knocking at the Door, Projections of High School Graduates by State, Income, and Race/Ethnicity, 1988 to 2018," December 2003, WICHE

Relative Need for Postsecondary Ed & Training Based on Projected Hawaiii High School Graduates, 2006–2018

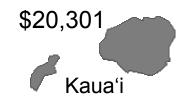


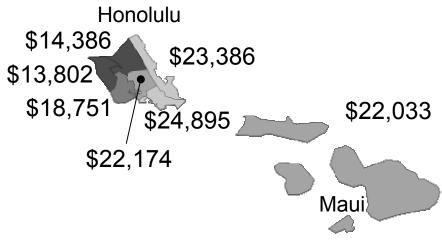
Note: Percentages based on an average of annual changes from 2006 to 2018. UH IRO calculations based on DOE actual enrollments.

Income & Workforce Participation



Per Capita Personal Income, 2000

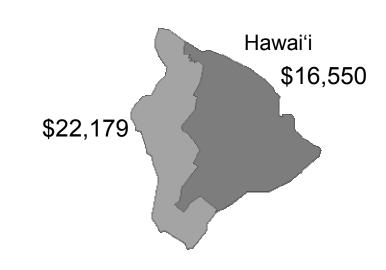




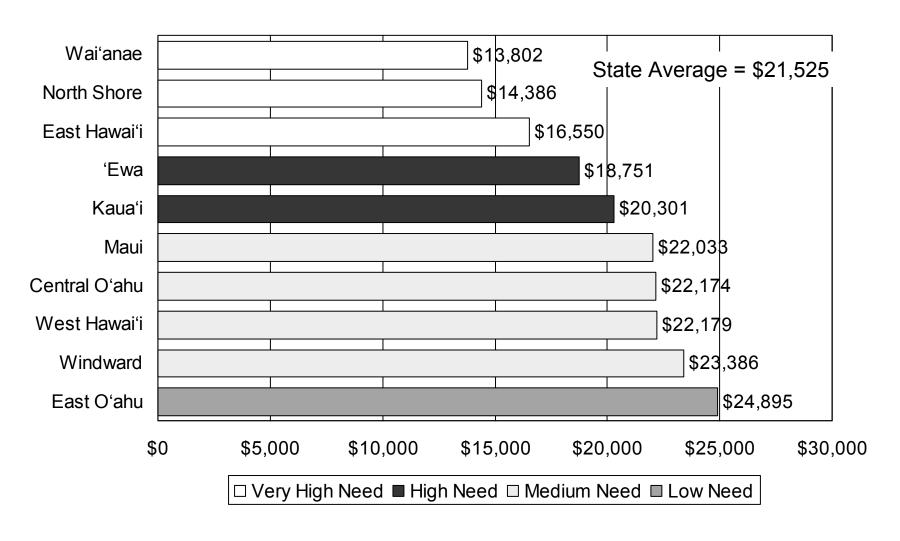
\$23,386 to \$24,895 \$22,033 to \$23,385 \$16,550 to \$22,032 \$13,756 to \$16,549

Hawai'i = \$21,525

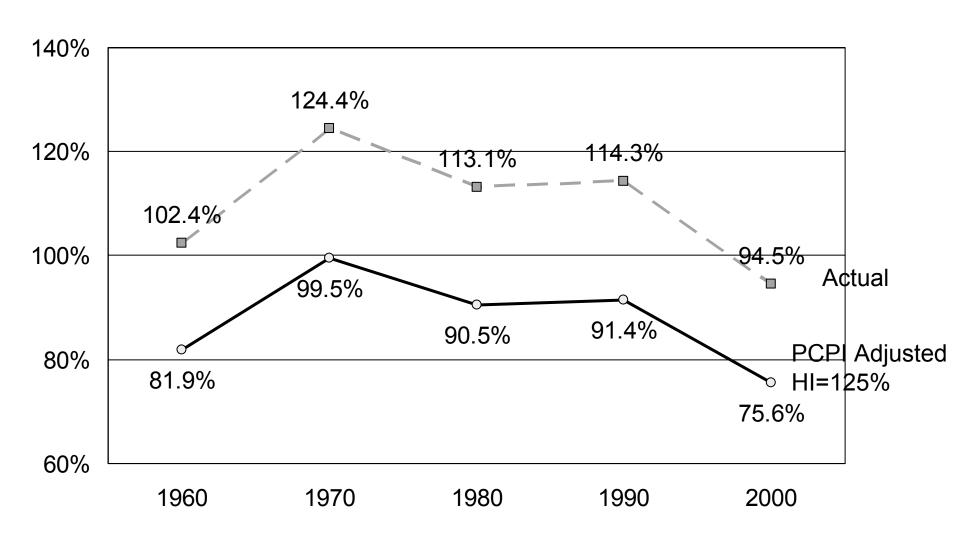
Note: Kalawao not shown.



Relative Need for Postsecondary Ed & Training Based on Per Capita Personal Income 2000

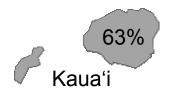


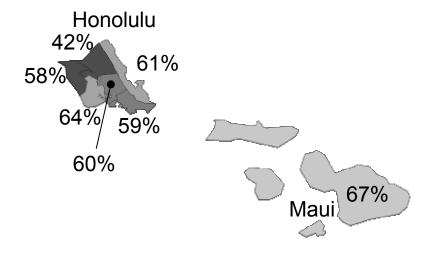
Declining Per Capita Personal Income as a Percent of U.S. Average, 1960–2000

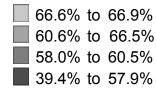


APP Sep 2006 Source: U.S. Census Bureau

Percent of Civilian Population Age 16 and Older Participating in the Workforce, 2000

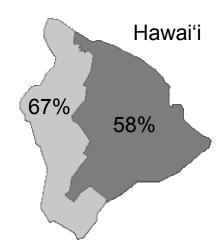




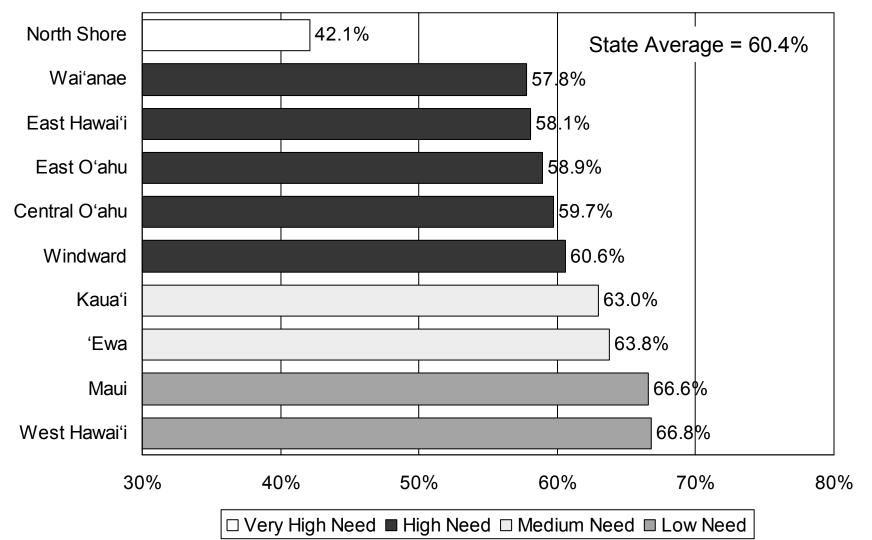


Hawai'i = 60.4%

Note: Kalawao included with Maui County. Source: U.S. Census Bureau, 2000 Census



Relative Need for Postsecondary Ed & Training Based on Workforce Participation, Age 16 and Older



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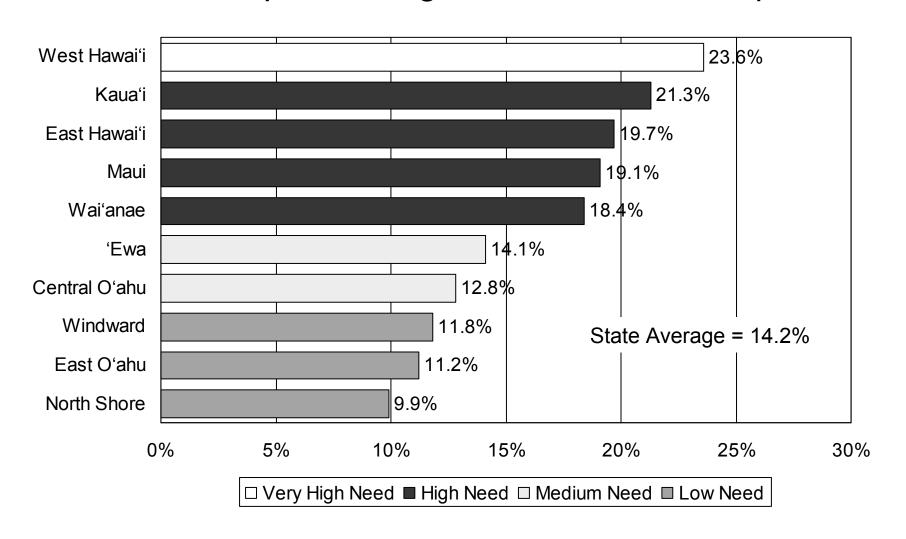
Source: U.S. Census Bureau, 2000 Census.

FACTOR #5

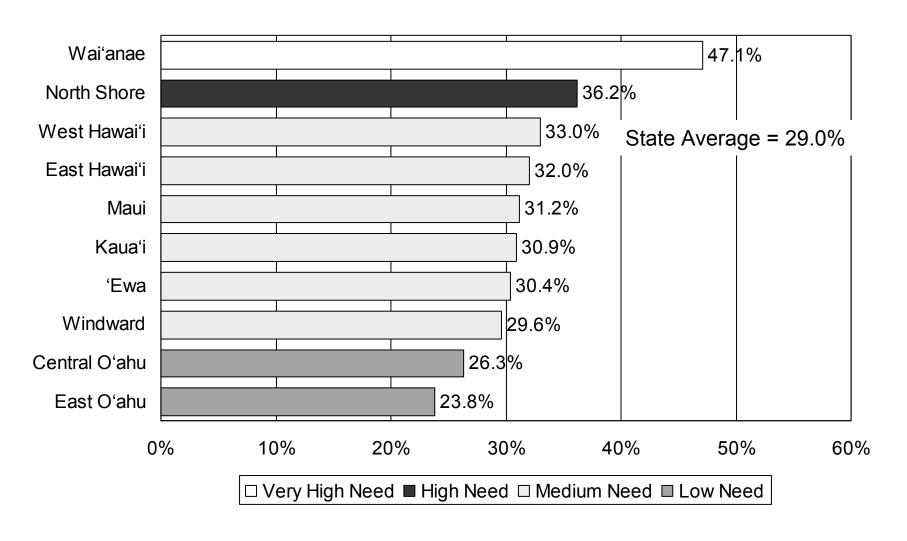
Educational Attainment

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Relative Need for Postsecondary Ed & Training Based on Population Age 18–24 with <HS Diploma

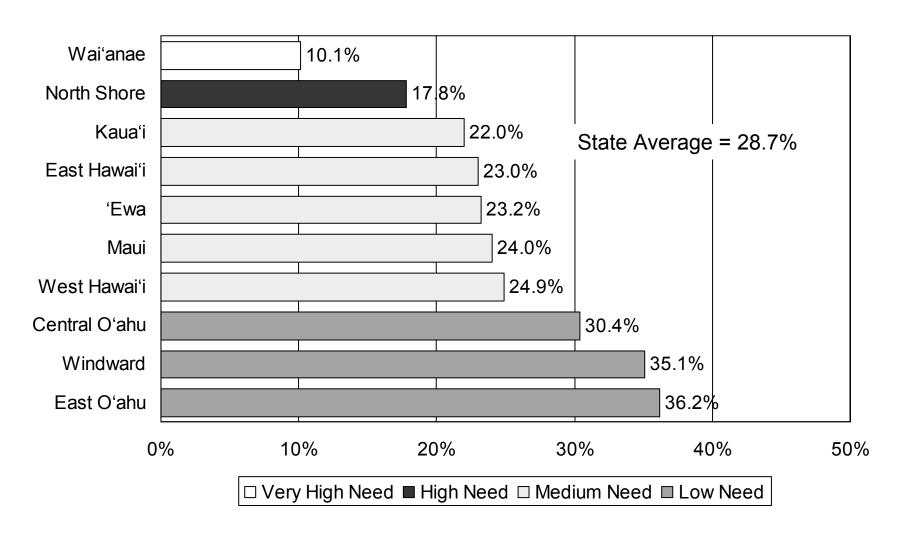


Relative Need for Postsecondary Ed & Training Based on Population Age 18–64 with Only a HS Diploma

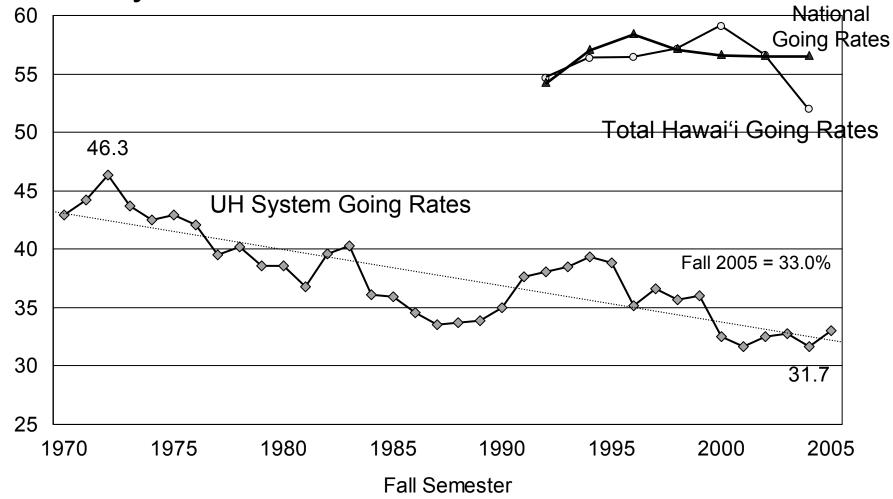


Relative Need for Postsecondary Ed & Training

Based on Population Age 25-64 with at Least a Bachelor's Degree

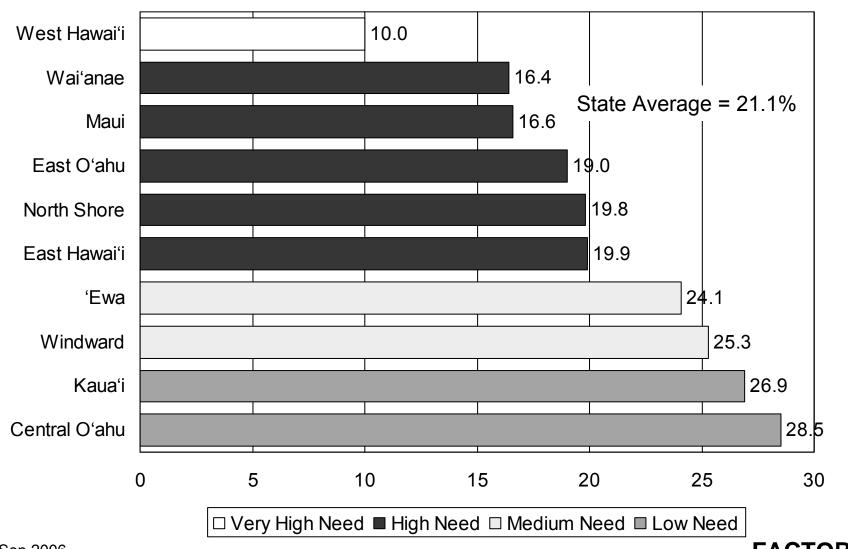


Going Rates of Public and Private High Schools, UH System, State of Hawai'i, and the Nation

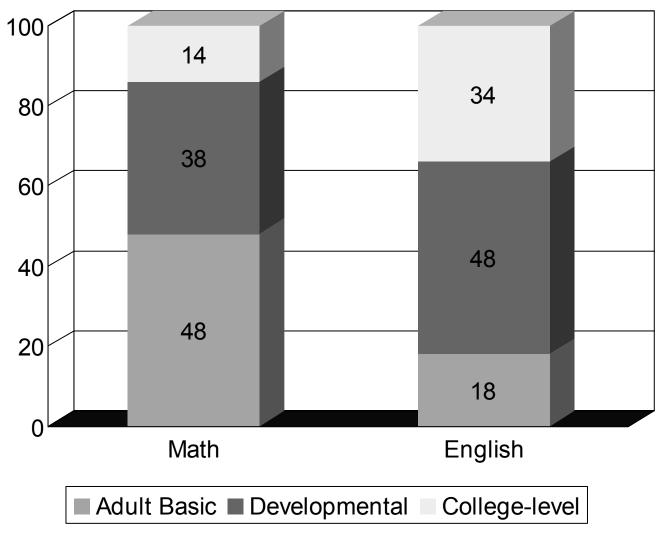


Note: The going rate is the percentage of Hawai'i high school graduates entering the University of Hawai'i without delay upon graduation from high school. As an upper division institution, UH West O'ahu is not included. 2004 State of Hawai'i going rate is preliminary. Sources: IRO (UH); NCES IPEDS (state); NCHEMS (national).

Relative Need for Postsecondary Ed & Training Based on UH 2-Yr Going Rates, Fall 2005



Entering Student Placement, UHCCs, Fall 2000



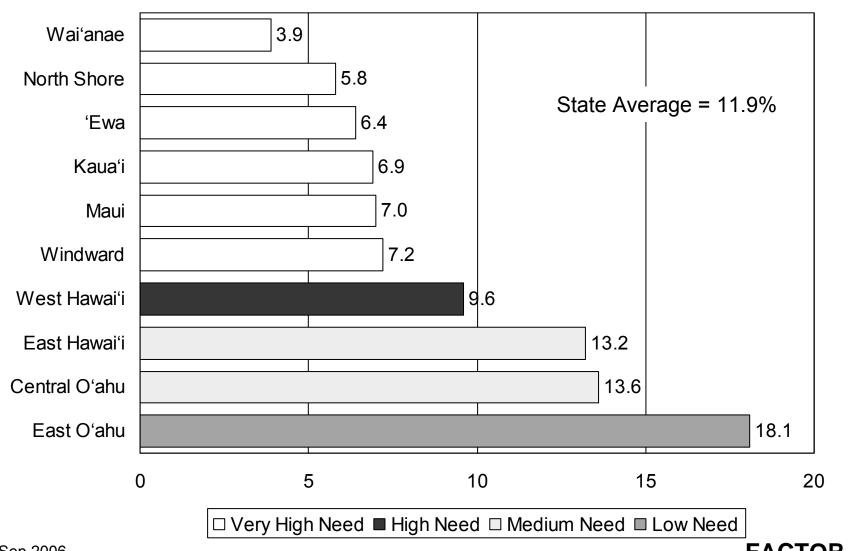
Source: National Center for Higher Education Management Systems.

K-12 Student Achievement

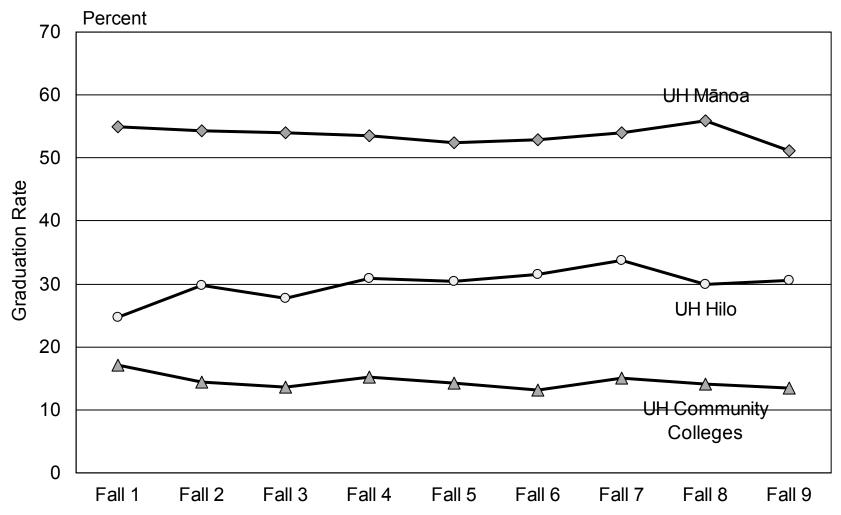
	Hav	Тор		
Preparation	1992	2006	States 2006	
8 th graders scoring at or above "proficient" on the national assessment exam:				
in math	14%	18%	38%	
in reading	19%	18%	38%	
in science	15%	15%	41%	
in writing	15%	18%	41%	
Number of scores in the top 20% nationally on SAT/ACT college entrance exam per 1,000 high school graduates	110	153	237	
Number of scores that are 3 or higher on an Advanced Placement subject test per 1,000 high school juniors and seniors	92	112	217	

Source: Measuring Up 2006.

Relative Need for Postsecondary Ed & Training Based on UH 4-Yr Going Rates, Fall 2005

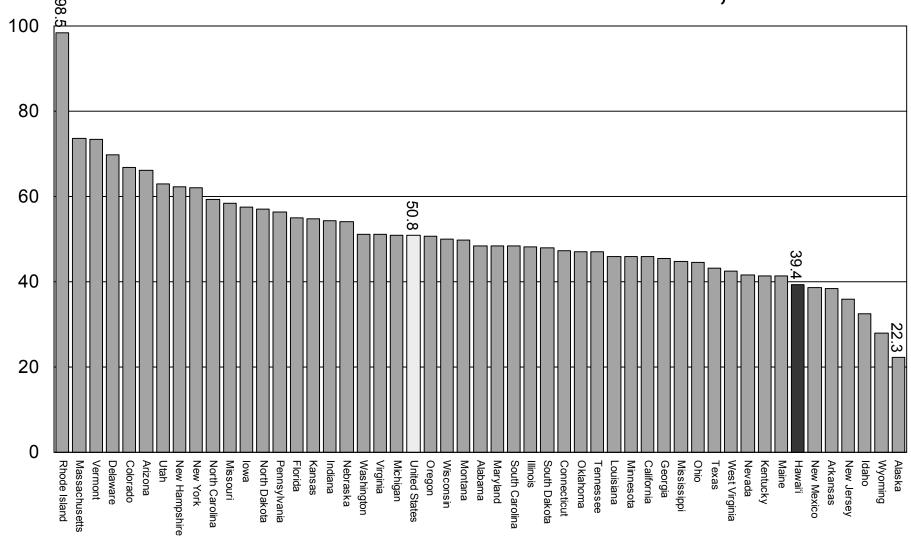


Graduation Rates by Cohort, UH Units



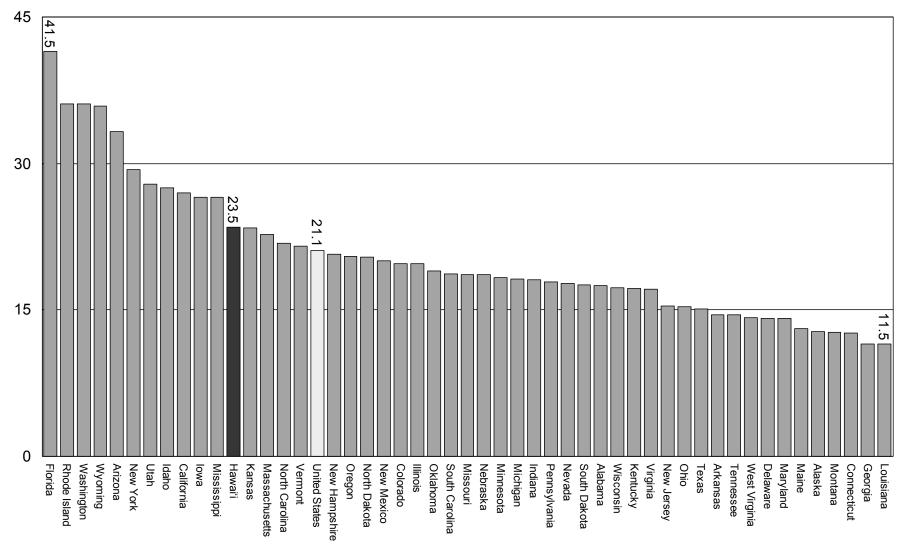
Note: For UH Mānoa and UH Hilo, Fall 1 = 1991 cohort, Fall 9 = 1999 cohort. For UH Community Colleges, Fall 1 = 1994 cohort, Fall 9 = 2002 cohort. UH West Oʻahu data are excluded due to limited cohort years. Includes bachelor's, associate, and certificates of achievement.

Bachelor's Degrees Awarded per 100 High School Graduates Six Years Earlier, 2002



Source: NCES-IPEDS Completions Survey, WICHE

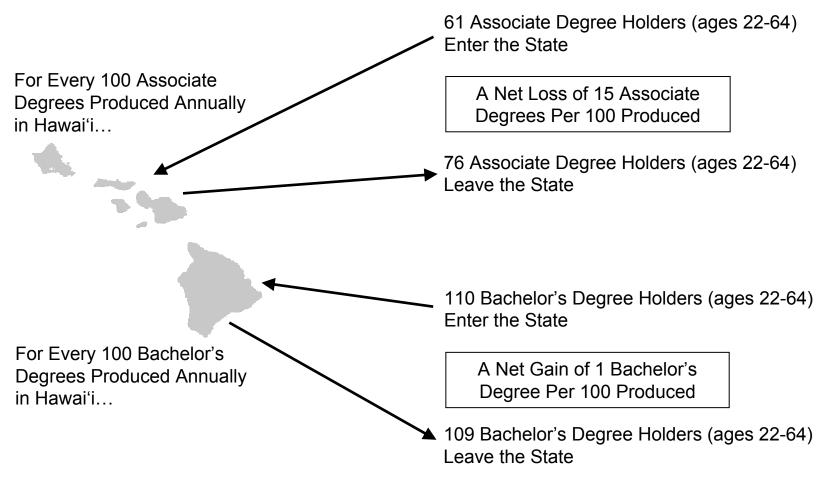
Associate Degrees Awarded per 100 High School Graduates Three Years Earlier, 2002



APP Sep 2006 Source: NCES-IPEDS Completions Survey, WICHE

Is Hawai'i Benefiting from the Migration of College Graduates?

Recent Annual Degree-Production and Migration Patterns

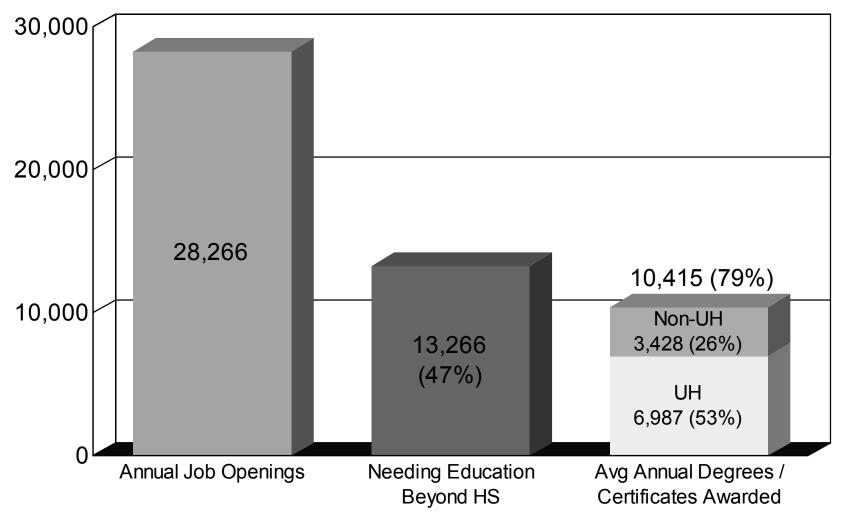


Source: Excerpted from NCHEMS "Investment in State PostSecondary Education: Hawai'i" NCHEMS sources = NCES IPEDS Completions Survey (3-year average degree production from 2001–2003); US Census Bureau (2000 5% Public Use Microdata Samples)

Workforce Development Needs

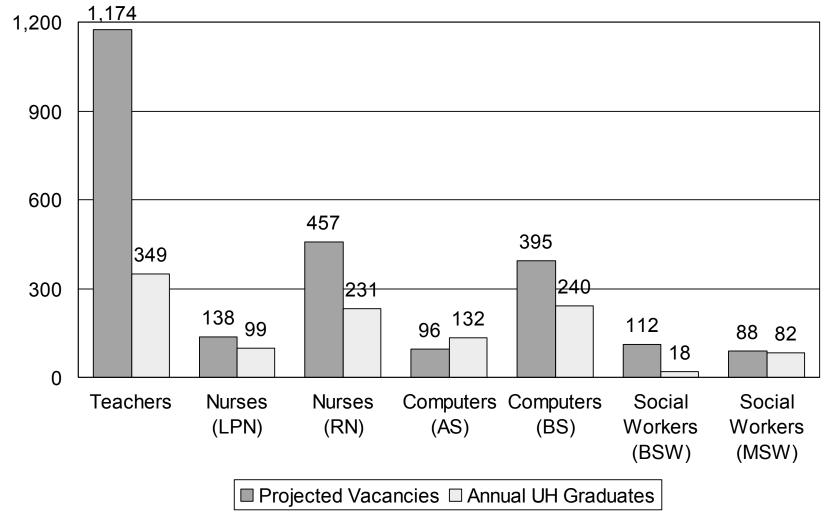
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Projected Average Annual Job Openings Through 2012



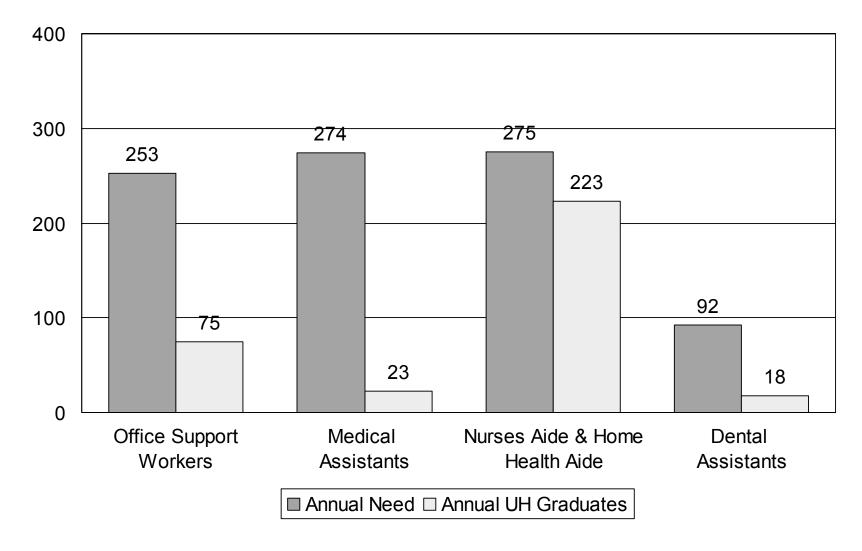
Source: Economic Modeling Specialist Inc (EMSI), June 2005; MAPS Degrees & Certificates Earned, FY 2002–04; IPEDS, FY 2002–04.

Projected Annual Vacancies in Shortage Areas Statewide, 2002–12 and Average UH Output, 2002–04



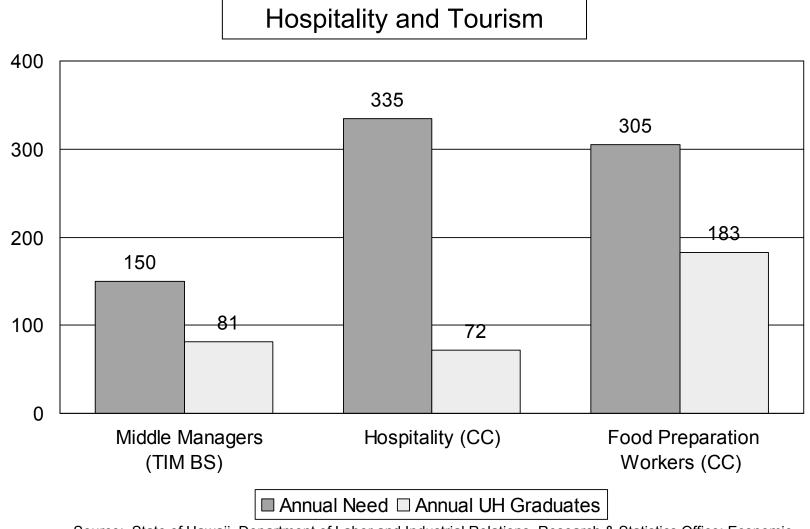
Source: Economic Modeling Specialist Inc (EMSI), June 2005; MAPS Degrees & Certificates Earned, FY 2002-04.

Projected Annual Vacancies in Shortage Areas Statewide, 2002–12 and Average UH Output, 2002–04



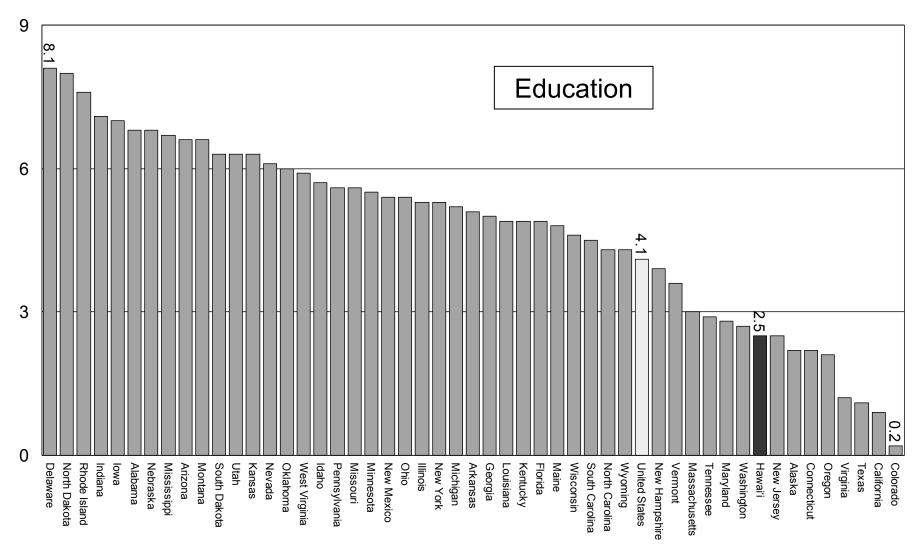
Source: Economic Modeling Specialist Inc (EMSI), June 2005; MAPS Degrees & Certificates Earned, FY 2002–04.

Projected Annual Vacancies in Shortage Areas Statewide, 2002–12 and Average UH Output, 2002–04



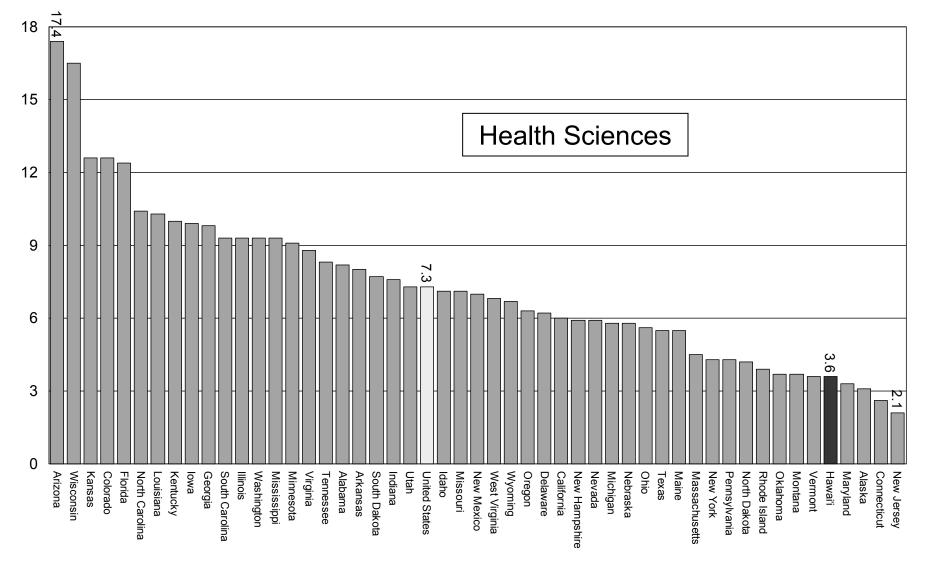
Source: State of Hawaii, Department of Labor and Industrial Relations, Research & Statistics Office; Economic Modeling Specialist Inc (EMSI), June 2005; MAPS Degrees & Certificates Earned, FY 2002–04.

Number of Baccalaureate Degrees Awarded (2003) Per 100 High School Graduates Six Years Earlier, 1997



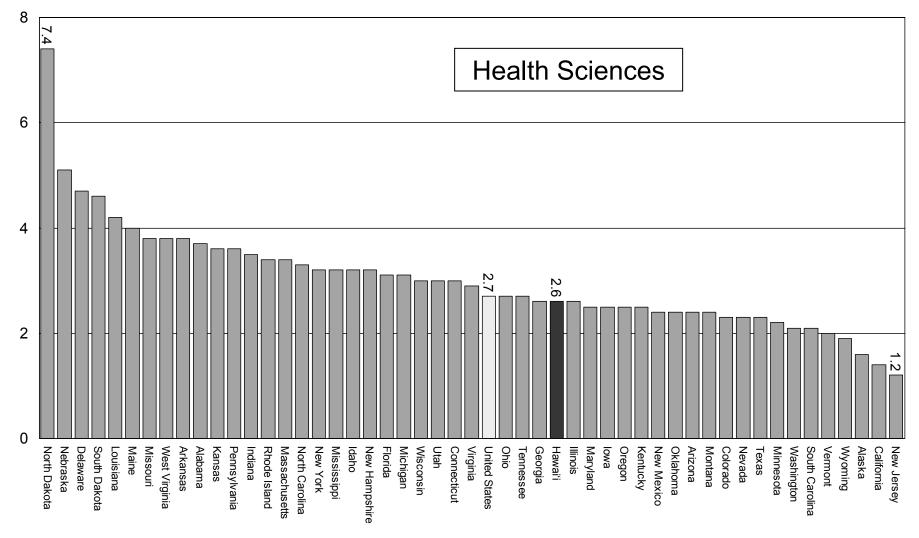
APP Sep 2006 Source: NCES-IPEDS Completions 2002-03; WICHE High School Graduates, 1997

Number of Associate Degrees and Certificates Awarded (2003) Per 100 High School Graduates Three Years Earlier, 2000



Source: NCES-IPEDS Completions 2002-03; WICHE High School Graduates, 2000

Number of Baccalaureate Degrees Awarded (2003) Per 100 High School Graduates Six Years Earlier, 1997



APP Sep 2006 Source: NCES-IPEDS Completions 2002-03; WICHE High School Graduates, 1997

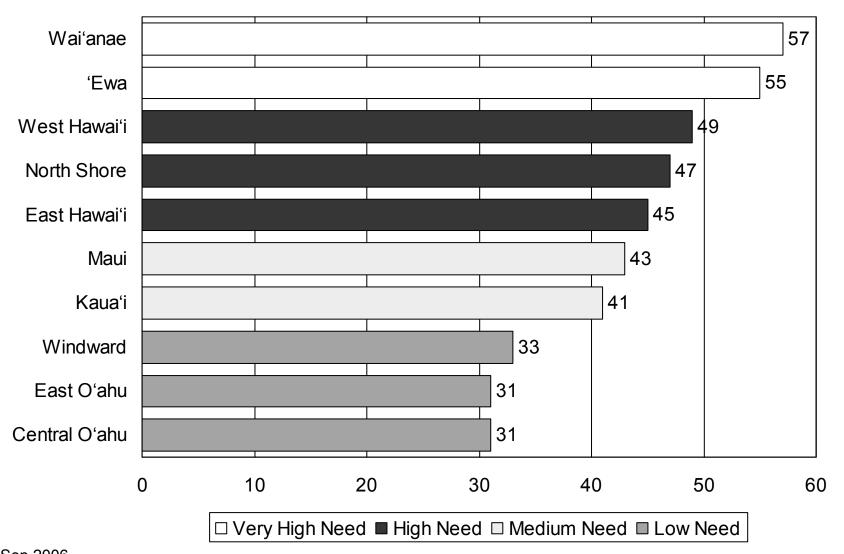
Summary of Planning Factors

- Population growth (# & %)
- High school graduation rates
- Income
- Workforce participation
- Educational attainment (<HS, HS, bachelor's)
- College going rate (2-yr, 4-yr)
- Job shortages (workforce needs)

Relative Need for Postsecondary Ed/Training by Region

RELATIVE NEED	31	31	55	57	47	33	45	49	43	41
Skilled Workforce Needs	Very High									
Going Rates (4-Yr)	Low	Med	Very High	Very High	Very High	Very High	Med	High	Very High	Very High
Going Rates (2-Yr)	High	Low	Med	High	High	Med	High	Very High	High	Low
Ed Attain (Bach)	Low	Low	Med	Very High	High	Low	Med	Med	Med	Med
Ed Attain (HS Dipl)	Low	Low	Med	Very High	High	Med	Med	Med	Med	Med
Ed Attain (<hs dipl)<="" td=""><td>Low</td><td>Med</td><td>Med</td><td>High</td><td>Low</td><td>Low</td><td>High</td><td>Very High</td><td>High</td><td>High</td></hs>	Low	Med	Med	High	Low	Low	High	Very High	High	High
Workforce Particip %	High	High	Med	High	Very High	High	High	Low	Low	Med
Income	Low	Med	High	Very High	Very High	Med	Very High	Med	Med	High
Proj HS Grad (Avg %)	Med	Med	Very High	High	Low	Low	Low	High	Low	Low
Pop Growth (%)	Low	Low	Very High	Low	Low	Low	Med	High	Med	Med
Pop Growth (#)	High	Med	Very High	Low	Low	Low	Med	Med	High	Med
Factors	East	Cent	'Ewa	Wai	N Sh	Win	EHI	W HI	Mau	Kau

Relative Need for Postsecondary Ed & Training 4 Cluster Analysis



- 1. Increase the educational capital of the state
 - Increase college going rates
 - Increase the transfer rate from 2 year to 4 year campuses
 - Increase production of certificates, associate, and bachelor's degrees

- 2. Expand workforce development initiatives
 - Increase outreach to those not in the workforce
 - Expand program capacity in critical shortage areas

- 3. Assist in diversifying the economy
 - Increase education to encourage entrepreneurship
 - Increase technology transfer
 - Increase responsiveness to training needs

Hawai'i: Emerging Opportunities

Enterprise Honolulu Projections:

- Life Sciences / Biotechnology
- Information Technology
- Telecommunications
- Film & Digital Media
- Diversified Agriculture

APP Sep 2006 Source: Enterprise Honolulu

- 4. Address underserved regions and populations of the state
 - Increase educational services in western O'ahu (Wai'anae, 'Ewa, & North Shore) & West Hawai'i
 - Increase participation & success in all regions, particularly East Hawai'i

Biennium Budget Planning

- How can UH expand service to better meet state needs?
- How can UH increase student participation and success?
- How will we know we have succeeded?
- How will we pay for these initiatives?

Next Steps for Second Decade

	Date	
Informational briefing to BOR	January 2006	
Briefings for Legislative/Executive branch	February 2006	
Briefings for UH community and other groups	Ongoing	
Continue analyses:		
Use & Funding of Centers		
Defining the Comprehensive Mission		
Costing & Resource Allocation		

Acknowledgements

Second Decade Working Group:

Joanne Itano
Director, Academic Support Services

Karen Lee
Executive Assistant to the President

Paula Mochida Former Special Assistant, Academic Planning & Policy

David Mongold Institutional Analyst, Institutional Research Office

Sandra Furuto
Operations Manager, Academic Planning & Policy

Chatney Graham Institutional Support, Academic Planning & Policy

Special Thanks To:

Ron Heck, Professor Educational Administration, UHM