

Key Findings from the General Plan Comprehensive Review Trends and Forecasts Report

October 2022

Context

Requirements of the General Plan

The County of Hawai'i Planning Director initiated a comprehensive review of the General Plan in February 2015. The purpose of the General Plan is to set forth the County Council's policy for long-range comprehensive physical development of the County. As required by HRS §226-58 and Hawai'i County Charter §3-15, the Plan must be formulated on the basis of sound rationale, data, and analyses and must include, among other things, objectives, policies, and implementation actions for the desirable density of population, land use, infrastructure (water, waste, transportation, public buildings), utilities, affordable housing, and economic development.

Purpose of the Trends and Forecasts Report

The General Plan Comprehensive review, therefore, requires an understanding of demographic, economic, and real estate trends and forecasts that can be used to anticipate and plan for impacts on land use, infrastructure, and services. The Trends and Forecasts Report is intended to meet that need by providing both trends and forecasts for a set of variables relevant to the County of Hawai'i's General Plan review. The Report was prepared by Honolulu-based SMS Research & Marketing Services, Inc.

Apart from the report, SMS provided data both at the County-wide level and by the following Forecast Analysis Zones (FAZs), which are groupings of census tracts based on the geographic location of population centers in Hawai'i County:

- Hilo (Hilo and Wainaku)
- North Hilo-Hāmākua Coast Villages (Pauka'a to Laupāhoehoe)
- Honoka'a-Pa'auilo
- North Kohala
- Waimea
- Waikoloa Area (Kawaihae-Puakō-Waikoloa-Waikoloa Resorts)
- North Kona
- South Kona
- Ka'ū
- Upper Puna (Volcano to Mountain View)
- Kea'au-Kurtistown
- Hawaiian Paradise Park-Orchidland
- Lower Puna (Pahoa and Lower Puna subdivisions)

Below, these FAZ groupings are used to refer to geographic sub-areas of the County.

Historic data are generally provided from 1990, and forecasts are provided to 2045, which is the year through which forecasts are provided by the State Department of Business, Economic Development, and Tourism (DBEDT).

In addition to informing the Trends and Forecasts Report, these data are being used for the development of planning scenarios reflecting baseline conditions, build-out, growth capacity, growth trends, and alternatives to the trend.

Purpose of these Key Findings

Importantly, forecasts typically assume “business as usual” – that is, they generally assume that historic trends will continue into the future. The planner’s challenge is to understand the implications of those trends and the trade-offs associated with adapting to or influencing them.

The Trends and Forecasts Report provides definitions of each metric, data sources, discussions of trends and forecasts, explanations of forecast methods, and short discussions of demographic, economic, and real estate dynamics. However, it is beyond the scope of that report to connect those dynamics to planning. Therefore, the purpose of these Key Findings is to identify “take-aways” from the report that inform the analysis required for the General Plan Comprehensive Review.

Summary of Key Findings

Hawai'i County is rural. Only 40% of Hawai'i County's population is within its three urban areas, and in both urban and rural areas, population density is low.

The County is expected to grow by 35% by the year 2045. On average from 2017-2021, visitors make up about 9% of the population, and during peak periods, 90% of the growth is from immigration. Almost ¼ of our residents from 2025 and beyond will be 65 years or older.

Rates of job growth are expected to match population growth, but due to the economy's reliance on lower-paying service sector jobs, 16% of our estimated population will continue to live below the poverty line. Moreover, over 30% of our households are shelter burdened, and many are struggling to make ends meet, often living in overcrowded conditions. Much of the affordable housing is not located in or near job centers, so commutes are getting longer.

Visitor arrivals continue to increase and are forecasted to increase to about 2.6 million in 2045. Visitor accommodation units have also increased and while most hotel units are clustered primarily in North Kona and Waikoloa, a large supply of short-term vacation rental units has developed in Lower Puna. Steady growth of the visitor unit is expected to continue to match the demand of visitor arrivals, though the makeup of that growth (hotel vs. vacation rental) is unknown.

Demographic Key Findings

Population Centers are both Urban and Rural

For the 2020 Census, an urban area comprises a densely settled core of census blocks that meet minimum housing unit density and/or population density requirements. This includes adjacent territory containing non-residential urban land uses. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,000 housing units or a population of at least 5,000. It is important to note that most of our town centers do not meet the criteria to be designated as urban areas.

Urban Areas	Population	Housing	% of Population	Population Density (Pop/Sq Mile)
Hilo	41,410	16,878	20%	1,767
Kailua Kona	33,024	15,746	16%	1,548
Waikoloa Village	6,824	3,222	3%	1,150

Population Density is Low

By the Census definition, the majority (approximately 60%) of the County's population lives in rural areas, no change is expected through 2045. In contrast, nationwide, 20% of the population lives in rural areas.

In both urban and rural areas, the County of Hawai'i has a relatively low population density. It has an average of 1,488 people living in every square mile of urban areas and an average of 18 persons per square mile in rural areas. In contrast, urban Honolulu had over 5,556 persons per square mile in 2020.

Roughly 35% Growth by 2045

In 2018, there were 202,263 residents living in the County of Hawai'i. Over the next 25 years, the population growth rate is expected to decline from an average of 2.3% per annum to about 0.9% per annum. In 2045, the County resident population is forecast to be approximately 273,232 – a 35% increase since 2018.

Forecast Analysis Zones (FAZ)	Total Population									
	Estimate					Projection				
	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	42,425	44,070	45,714	47,409	47,910	52,553	53,899	55,186	56,392	57,584
North Hilo – Hāmākua Coast Villages	6,681	6,968	7,254	6,538	5,861	6,787	6,537	6,283	6,024	5,768
Honoka‘a- Pa‘auilo	6,108	6,311	6,513	7,441	6,056	7,270	7,353	7,429	7,495	7,560
Waimea	7,116	8,328	9,540	11,118	11,023	12,545	13,644	14,722	15,770	16,806
North Kohala	6,038	6,180	6,322	6,490	5,906	6,733	6,712	6,685	6,650	6,616
Kawaihae- Puakō- Waikoloa- Waikoloa Resorts	6,015	7,051	8,087	7,713	8,937	9,629	10,296	10,948	11,580	12,204
North Kona	28,543	33,209	37,875	41,213	47,252	50,744	55,464	60,095	64,604	69,059
South Kona Villages	8,589	9,293	9,997	11,268	11,421	12,649	13,427	14,186	14,920	15,646
Ka‘ū	5,827	7,139	8,451	7,942	9,773	10,393	11,294	12,177	13,036	13,885
Kea‘au- Kurtistown	3,545	4,258	4,970	5,028	5,524	6,096	6,584	7,063	7,527	7,986
Upper Puna	7,772	9,833	11,893	10,499	12,612	13,681	14,748	15,793	16,808	17,810
HPP- Orchidland	11,421	14,412	17,403	18,597	17,999	21,116	22,911	24,671	26,382	28,073
Lower Puna	8,597	9,829	11,060	10,226	11,076	12,200	12,733	13,249	13,745	14,234
County of Hawai‘i	148,677	166,878	185,079	191,482	201,350	222,396	235,601	248,486	260,935	273,232

The *de facto* population is the sum of the resident population and the average daily visitor census. The average daily visitor census was around 19,441 in 2018 and is expected to rise to approximately 50,519 by 2045, bringing the de facto population from about 213,880 to about 311,869 – a 46% increase.

Forecast Analysis Zones (FAZ)	De Facto Population								
	Estimate				Projection				
	2000	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	41,108	50,054	54,767	49,730	59,979	63,641	67,240	70,692	74,207
North Hilo – Hāmākua Coast Villages	6,523	7,943	7,553	6,084	7,337	7,785	8,226	8,648	9,078
Honoka’a-Pa’auilo	5,857	7,131	8,596	6,286	7,582	8,044	8,499	8,936	9,380
Waimea	8,579	10,446	12,844	11,442	13,800	14,642	15,470	16,265	17,073
North Kohala	5,685	6,922	7,497	6,130	7,394	7,845	8,289	8,714	9,148
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	7,272	8,855	8,910	9,277	11,188	11,871	12,543	13,187	13,842
North Kona	34,058	41,471	47,609	49,047	59,155	62,767	66,317	69,722	73,188
South Kona Villages	8,990	10,946	13,017	11,855	14,298	15,171	16,029	16,852	17,690
Ka’ū	7,599	9,253	9,175	10,144	12,235	12,982	13,716	14,420	15,137
Kea’au-Kurtistown	4,469	5,442	5,808	5,734	6,916	7,338	7,753	8,151	8,556
Upper Puna	10,695	13,022	12,128	13,091	15,789	16,753	17,701	18,609	19,535
HPP-Orchidland	15,649	19,055	21,483	18,683	22,533	23,909	25,261	26,558	27,878
Lower Puna	9,946	12,110	11,813	11,497	13,866	14,713	15,545	16,343	17,156
County of Hawai’i	166,429	202,650	221,200	209,000	252,073	267,463	282,588	297,097	311,869

Immigration Outpaces Resident Population Growth

During the last two decades, there has been an average of 2,338 births and 1,458 deaths per year in the County, resulting in a net increase of almost 880 people annually. Also contributing to population growth are the approximately 8,521 individuals, on average, who choose to move to Hawai’i County each year. In other words, about 90% of the growth on average is through immigration. However, it is important to note that according to UHERO, in 2018, 67,293 Hawai’i residents moved to the mainland, or equivalent to more than 4.5% of the state’s total population; they were partially replaced by 54,074 mainlanders who moved to Hawai’i for a net out-migration from Hawai’i of 13,219. More information on this is needed at a county level to understand Hawai’i County’s out-migration data and related effects.

We have an Aging Population

The County population over age 65 is expected to grow by 44% by the year 2045. In 2020, the largest cohort of the population was aged 60-69. As this subset of the population continues to age, it will present a variety of opportunities and challenges with regard to housing, economic development, and public services.

Growth and Development Key Findings

Housing is a Burden for more than 40% of Households

The housing guidelines from the federal Department of Housing and Urban Development suggest that households should devote no more than 30% of their income to pay monthly housing expenses; otherwise, a household is considered “shelter burdened” and may have difficulty affording necessities

such as food, clothing, transportation, and medical care. Further households spending more than 50% of their income are considered severely shelter burdened.

In Hawai'i County, the percentage of households that are burdened has remained constant and considerably above the national average. In 2010, 42% of owner households with a mortgage and 45% of all renter households were paying more than 30% of their income for housing. By 2020, this had decreased slightly to 39% and 43%, respectively. Further, a majority of those could be considered severely shelter burdened.

Nationally, on average, 30% of households paid more than 30% of their income on housing in 2020. It is also important to note that the State of Hawai'i continuously ranked in the top 3 highest shares of shelter burdened, nationally.

Forecast Analysis Zones (FAZ)	Households								
	Estimate				Projection				
	2000	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	15,141	17,623	16,166	16,826	16,458	16,704	16,914	17,096	17,257
North Hilo – Hāmākua Coast Villages	2,384	2,646	2,280	2,185	2,137	2,169	2,196	2,220	2,241
Honoka'a-Pa'auilo	2,083	2,158	1,990	2,033	1,988	2,018	2,044	2,066	2,085
Waimea	2,241	3,217	3,222	3,615	3,536	3,589	3,634	3,673	3,708
North Kohala	1,751	1,862	1,915	2,269	2,219	2,253	2,281	2,305	2,327
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	2,407	2,983	2,909	3,298	3,226	3,274	3,315	3,351	3,382
North Kona	10,492	14,374	13,946	16,234	15,878	16,116	16,318	16,494	16,650
South Kona Villages	3,113	3,531	3,659	3,838	3,754	3,810	3,858	3,900	3,936
Ka'ū	2,209	2,624	2,829	3,438	3,363	3,413	3,456	3,493	3,526
Kea'au-Kurtistown	1,261	1,520	1,672	1,802	1,763	1,789	1,811	1,831	1,848
Upper Puna	2,974	3,618	4,106	5,016	4,906	4,980	5,042	5,096	5,144
HPP-Orchidland	3,784	4,594	6,309	6,627	6,482	6,579	6,661	6,733	6,797
Lower Puna	3,115	3,632	4,045	4,566	4,466	4,533	4,590	4,639	4,683
County of Hawai'i	52,955	64,382	65,048	71,747	70,176	71,227	72,120	72,897	73,585

Housing Remains Unaffordable

SMS considered housing affordable if its price (asking rent or sales price) is affordable to households if those units require not more than 30% of the household's income. Approximately 43% of the housing units were deemed unaffordable in 2020.

Households Remain Overcrowded

A household is considered overcrowded when the ratio of household members to rooms in the housing unit exceeds 1.0. A household is classified as extremely overcrowded when that ratio exceeds 1.50.

Crowding is considered to be a negative indicator of the health of a local housing market, a sign that the market is unable to supply the number and types of housing units needed.

Hawai'i has one of the highest overcrowding rates in the country at 7.7%. However, the level of overcrowding varies across the island with Ka'ū, Waimea, South Kona, and Upper Puna experiencing overcrowding rates in the double digits. However, on average, Hawai'i County's overcrowding rate is still the lowest among all of Hawai'i's counties.

Affordable Housing can be Found Island Wide

The availability of affordable housing varies by region. Relative to the countywide average, the rural communities – particularly Lower Puna and Waimea – have the largest percentages of housing that is affordable. In contrast, the North Hilo-Hāmākua Coast Villages and North Kohala have the lowest percentages of affordable housing. At the same time, most of the County's total stock of affordable housing is in Puna (24.2%), Hilo (21.7%), and North Kona (23.3%).

Forecast Analysis Zones (FAZ)	Affordable Housing Units							
	Estimate			Projection				
	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	9,989	10,570	11,114	12,160	13,200	14,122	15,044	15,188
North Hilo – Hāmākua Coast Villages	1,686	1,669	1,682	1,841	1,998	2,138	2,277	2,299
Honoka'a-Pa'auilo	1,446	1,373	1,414	1,548	1,680	1,797	1,915	1,933
Waimea	2,057	2,111	2,312	2,529	2,746	2,937	3,129	3,159
North Kohala	1,471	1,451	1,544	1,689	1,834	1,962	2,090	2,110
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	3,349	3,525	3,594	3,933	4,269	4,567	4,865	4,912
North Kona	10,615	11,252	11,955	13,080	14,198	15,190	16,182	16,337
South Kona Villages	2,474	2,493	2,761	3,021	3,279	3,509	3,738	3,774
Ka'ū	2,393	2,435	2,512	2,748	2,983	3,192	3,400	3,433
Kea'au-Kurtistown	1,043	1,034	1,186	1,298	1,409	1,507	1,605	1,621
Upper Puna	3,341	3,128	3,576	3,913	4,248	4,544	4,841	4,887
HPP-Orchidland	3,941	3,964	4,395	4,809	5,220	5,584	5,949	6,006
Lower Puna	3,071	3,095	3,225	3,528	3,830	4,097	4,365	4,407
County of Hawai'i	46,875	48,101	51,271	56,096	60,892	65,147	69,403	70,066

Forecasted Growth Rates Vary by Community

The number of housing units in the County of Hawai'i in 2020 was estimated to be 90,478. Among those, approximately 82% were single-family dwellings, and the remainder were multi-family units. 69% of housing units were owner-occupied.

Growth rates have varied considerably by region, and that trend is expected to continue. Relative to the countywide estimate of 14% growth in housing units from 2020 to 2045, North Hilo-Hāmākua Villages (-1.6%) are expected to decrease and Hilo (20%) is expected to grow more slowly, relative to the others. Others are expected to grow in order of growth rates are: Hawaiian Paradise Park-Orchidland (56%)

Waimea (52%), Puna – Kea‘au-Kurtistown (44.5%), Ka‘ū (42%), Upper Puna (41%), and Lower Puna (28.5%). These differences in growth rates are forecasted to result in shifts in the relative population centers.

Forecast Analysis Zones (FAZ)	Housing Units								
	Estimate				Projection				
	2000	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	16,640	17,544	18,602	19,211	20,471	21,104	21,714	22,307	22,877
North Hilo – Hāmākua Coast Villages	2,566	2,961	2,938	2,908	3,099	3,195	3,287	3,377	3,463
Honoka‘a-Pa‘auilo	2,327	2,540	2,417	2,445	2,605	2,686	2,764	2,839	2,912
Waimea	2,634	3,613	3,715	3,996	4,258	4,390	4,517	4,640	4,759
North Kohala	1,922	2,583	2,554	2,669	2,844	2,932	3,017	3,099	3,178
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	3,160	5,881	6,204	6,213	6,620	6,825	7,022	7,214	7,399
North Kona	13,960	18,642	19,804	20,664	22,019	22,700	23,356	23,994	24,607
South Kona Villages	3,514	4,345	4,388	4,773	5,086	5,243	5,395	5,542	5,684
Ka‘ū	2,883	4,202	4,285	4,342	4,627	4,770	4,908	5,042	5,171
Kea‘au-Kurtistown	1,438	1,831	1,820	2,050	2,184	2,252	2,317	2,380	2,441
Upper Puna	3,599	5,867	5,506	6,182	6,587	6,791	6,987	7,178	7,362
HPP-Orchidland	4,316	6,922	6,976	7,597	8,095	8,346	8,587	8,821	9,047
Lower Puna	3,714	5,393	5,447	5,574	5,940	6,123	6,300	6,472	6,638
County of Hawai‘i	62,674	82,324	84,656	88,624	94,436	97,357	100,170	102,907	105,536

Visitor Unit Growth is Steady, but Types are Shifting

The vast majority of visitor units are in the Waikoloa Area and North Kona. With the upward trend in visitor arrivals expected to increase through 2045, increasing demand for visitor units is likely. With this growth comes the challenge of planning for their impact on the local economy, especially with regard to accommodations.

Historically, hotel rooms accounted for the majority of the visitor accommodation units in the County of Hawai‘i (59%), with visitor rental units (VRUs) and timeshare units a distant second and third (16% and 15% of the total visitor units, respectively). When the annual Visitor Plant Inventory (VPI) report began issuing a supplemental analysis of visitor units in 2016, a more comprehensive picture of individual vacation rental units began to emerge that indicated that VRUs outnumbered hotel rooms.

Economic Key Findings

Poverty Persists

Household income rises and falls along with economic cycles. The median household income trended up in 2020 to \$65,401.

The previous downward trend fell to a low of 13.1% in 2007. Since that time, the percentage of poverty increased to a record high in 2015 of 19.5% for individuals and has declined again to 14% in 2020. The official poverty rate nationwide was 11.4%, and statewide it was nearly 9.3%. It is important to remember that the cost of living in Hawai'i continues to be among the highest in the nation, compounding impacts on those who are already struggling to meet basic needs.

Self-Sufficiency is Out of Reach for Many

The poverty rate is a national measure and is hardly a living wage, especially in Hawai'i. The median household income in 2020 was \$65,401. The State Department of Business, Economic Development & Tourism publishes an annual Self-Sufficiency Income Standard. In 2020, Hawai'i County had the lowest self-sufficiency income requirements (\$74,030 for a family of four with a preschooler and one school-age child), but that income is well above the poverty line. A family of four needed to earn a combined hourly wage of \$35.05 (or \$17.53 each on average) to be economically self-sufficient. That was 76.2% above the state minimum wage level and 145.7% above the federal poverty threshold for Hawai'i.

Forecast Analysis Zones (FAZ)	Median Household Income							
	Estimate			Projection				
	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	\$52,931	\$51,030	\$63,386	\$68,172	\$71,536	\$76,458	\$81,670	\$86,883
North Hilo – Hāmākua Coast Villages	\$54,840	\$48,401	\$58,082	\$62,106	\$65,550	\$70,060	\$74,837	\$79,614
Honoka'a-Pa'auilo	\$60,095	\$54,691	\$58,753	\$61,127	\$63,216	\$65,982	\$68,889	\$71,805
Waimea	\$77,813	\$58,475	\$95,909	\$102,553	\$108,241	\$115,689	\$123,576	\$131,464
North Kohala	\$56,574	\$63,879	\$82,483	\$88,197	\$93,089	\$99,494	\$106,277	\$113,061
Kawaihae-Puakō- Waikoloa- Waikoloa Resorts	\$76,930	\$72,669	\$80,143	\$85,695	\$180,896	\$193,342	\$206,524	\$219,706
North Kona	\$63,745	\$62,573	\$79,358	\$84,856	\$89,562	\$95,724	\$102,250	\$108,777
South Kona Villages	\$55,637	\$55,323	\$65,516	\$71,954	\$164,093	\$192,695	\$227,721	\$270,467
Ka'ū	\$41,352	\$34,104	\$39,751	\$85,010	\$89,724	\$95,898	\$102,436	\$108,974
Kea'au- Kurtistown	\$50,208	\$41,773	\$69,022	\$73,804	\$77,897	\$83,257	\$88,933	\$94,609
Upper Puna	\$41,657	\$40,402	\$29,385	\$31,421	\$99,491	\$106,337	\$113,586	\$120,837
HPP-Orchidland	\$38,336	\$40,546	\$65,213	\$69,731	\$220,794	\$235,986	\$252,075	\$268,165
Lower Puna	\$34,635	\$31,182	\$33,259	\$35,563	\$112,606	\$120,354	\$128,560	\$136,766
County of Hawai'i	\$54,996	\$52,108	\$65,401	\$69,932	\$73,810	\$78,889	\$84,267	\$89,646

Job Growth Mirrors Population Growth

The average annual growth rate for jobs averaged 1.4% since 2005, mirroring population trends, and it is expected to mirror population trends experiencing a slight decrease in the growth rate for the next several decades.

Forecast Analysis Zones (FAZ)	Total Civilian Jobs								
	Estimate				Projection				
	2000	2010	2015	2020	2025	2030	2035	2040	2045
Hilo	32,935	39,077	42,073	45,273	48,523	51,836	55,040	58,207	61,470
North Hilo – Hāmākua Coast Villages	1,927	2,286	2,461	2,648	2,838	3,032	3,220	3,405	3,596
Honoka‘a-Pa‘auiilo	3,303	3,919	4,219	4,540	4,866	5,198	5,519	5,837	6,164
Waimea	4,373	5,188	5,586	6,011	6,443	6,883	7,308	7,729	8,162
North Kohala	2,171	2,576	2,774	2,985	3,199	3,417	3,628	3,837	4,052
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	1,009	1,197	1,289	1,387	1,487	1,588	1,686	1,784	1,883
North Kona	21,100	25,035	26,955	29,005	31,087	33,210	35,263	37,291	39,382
South Kona Villages	4,312	5,116	5,508	5,927	6,353	6,786	7,206	7,620	8,048
Ka‘ū	1,988	2,358	2,539	2,732	2,929	3,128	3,322	3,513	3,710
Kea‘au-Kurtistown	3,608	4,281	4,610	4,960	5,316	5,679	6,030	6,377	6,735
Upper Puna	612	726	781	841	901	963	1,022	1,081	1,141
HPP-Orchidland	31	36	39	42	45	48	51	54	57
Lower Puna	1,774	2,104	2,266	2,438	2,613	2,792	2,964	3,135	3,310
County of Hawai‘i	79,142	93,900	101,100	108,790	116,600	124,560	132,260	139,870	147,710

85% Employed in the Service Sector

In 2020, 85.4% of employment was in one of the industries classified as within the services producing sector. The three primary economic sectors of the Hawai‘i Island economy are the services producing sector, the goods producing sector (construction and manufacturing), and agriculture. The services producing sector (education, health, accommodation, entertainment, food, professional, financial, real estate, public, etc.) is by far the largest, representing over 85% of employment. The agriculture sector represents about 6.5% of employment.

More than two-thirds of workers are employed in one of five key industries: educational service, healthcare, and social assistance (approximately 18%); arts, entertainment, recreation, accommodation, and food services (approximately 15%); retail trade (approximately 10%); professional, scientific, management, administrative, and waste management (approximately 9%); and construction (approximately 7%). Tourism drives the arts, entertainment, recreation, accommodation, and food services industries and much of the retail trade, representing a large portion of employment. Employment in the construction industry continues to be the most volatile among the top industries, with notable spikes and dips in employment that generally correspond to fluctuations in the housing market.

Job and Population Centers Mismatch = Longer Commutes

Data varies by source and date, but in general, about 42% of jobs in Hawai'i County are in Hilo, another quarter in North Kona, 7% in the Waikoloa and Waimea areas, and about 1 to 7% in each of the other population centers.

It is useful to compare these job centers with the County's population centers. Hilo for example has a surplus of jobs relative to the population, reflecting the fact that residents commute there from other communities. At the other end of the spectrum, the Hawaiian Paradise Park-Orchidland area has a working population that far exceeds the number of nearby jobs.

These mismatches are reflected in the increase in the Census measure of "mean travel time to work" from 24.5 minutes in 2000 to 26.8 in 2020. This is also consistent with the national trend. In 2020, the average one-way commute in the United States increased to a new high of 27.6 minutes.

Competitive Advantages Vary

In contrast to employment and occupation data, which are from the Census and therefore tie data to the physical location of the *resident*, jobs data are collected from employers and therefore tied to the physical location of the *employer*.¹ Hawai'i County has the greatest number of jobs in government (18.6%); retail (12.5%); business, professional, and other services (12.7%); health and social assistance (10.7%); dining (9.8%); and hotels (8.6%).

Because jobs data are geographically linked to the place of employment, they can be used to identify characteristics of job centers. A location quotient (LQ) quantifies how concentrated jobs are within a geographic area relative to a larger area. A high location quotient in a specific industry may translate into a competitive advantage in that industry for the local economy. The Trends and Forecasts Report considered the LQ of Hawai'i County vis-à-vis the State and each FAZ population center vis-à-vis the County.

Hawai'i County has a much higher concentration of agricultural jobs relative to the State as a whole. Hawai'i County also employed about 1 out of 5 residents in hospitality (arts, entertainment, recreation, accommodations, and food services compared to 1 out of 6 for the rest of the State. On the other hand, the information sector in Hawai'i County is underrepresented as compared to the rest of the State. Employment in the finance and insurance industry has also been relatively low in Hawai'i County compared to the State.

The competitive advantages of population centers relative to the County are provided below (LQ provided in parentheses). The urban centers are the seat of government and the center of professional, service, and retail trades. Agriculture, food processing, and related wholesale trade are centered in the most rural areas and Waimea. Tourism and related industries are centered on the leeward side and in North Kohala and Honoka'a. Interestingly, HPP-Orchidland's economy is quite diversified despite its limited number of jobs. Also, the Lower Puna area appears to be a small hub for the information industry.

¹ This explains the slight differences between employment and jobs data.

Forecast Analysis Zone (FAZ)	Location Quotient Relative to the County
Hilo	• Government (1.48) • Education services and Health services (1.28) • Transportation and utilities (1.06)
North Hilo-Hāmākua Coast Villages	• Agriculture, mining, and construction (1.20) • Government (1.92)
Honokaʻa-Paʻauilo	• Agriculture, mining, and construction (1.71) • Professional and business services (1.33) • Education services and Health services (1.22) • Arts/entertainment, hotels, eating, drinking (1.49)
Waimea	• Agriculture, mining, and construction (1.22) • Professional services and business services (1.21) • Education services and Health services (1.03) • Arts/entertainment, hotels, eating, drinking (1.67)
North Kohala	• Agriculture, mining, and construction (1.31) • Manufacturing and food processing (1.35) • Finance and insurance, real estate and rentals (1.15) • Professional and business services (1.02) • Arts/entertainment, hotels, eating, drinking (1.61)
Kawaihae-Puakō-Waikoloa-Waikoloa Resorts	• Agriculture, mining, and construction (1.22) • Arts/entertainment, hotels, eating, drinking (1.33) • Professional and business services (1.46) • Finance and insurance, real estate and rentals (1.21)
North Kona	• Transportation and utilities (1.15) • Information (1.38) • Finance and insurance, real estate and rentals (1.61) • Professional and business services (1.19) • Arts/entertainment, hotels, eating, drinking (1.61) • Other services (1.14) • Arts/entertainment, hotels, eating, drinking (1.29)
South Kona Villages	• Agriculture, mining, and construction (1.51) • Manufacturing and food processing (2.30) • Transportation and utilities (1.06) • Information (1.99) • Other services (1.48) • Finance and insurance, real estate and rentals (1.11) • Arts/entertainment, hotels, eating, drinking (1.02)
Kaʻū	• Agriculture, mining, and construction (2.49) • Information (2.31) • Education services and Health services (1.07) • Government (1.11)
Upper Puna	• Manufacturing and food processing (2.12) • Education services and Health services (1.09) • Government (1.84)

Forecast Analysis Zone (FAZ)	Location Quotient Relative to the County
Kea'au-Kurtistown	• Agriculture, mining, and construction (1.57) • Transportation and utilities (1.18) • Education services and Health services (1.41) • Other services (1.75)
HPP-Orchidland	• Manufacturing and food processing (1.40) • Transportation and utilities (1.15) • Education services and Health services (1.19) • Other services (1.43) • Government (1.05)
Lower Puna	• Manufacturing and food processing (1.05) • Agriculture, mining, and construction (1.19) • Information (1.62) • Transportation and utilities (1.22) • Professional and business services (1.50) • Education services and Health services (1.71)