

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

The chief source for transportation statistics is the Hawaii State Department of Transportation, its Highways, Harbors and Airports Divisions, and the Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, U.S. Census of Transportation, Communications, and Utilities, Honolulu Public Transit Authority, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in *Historical Statistics of Hawaii*, Section 17. Another source of long-term trend information is *What People Paid to Travel*, published by the Hawaiian Historical Society in 1991. Similar statistics for other areas are reported in the *Statistical Abstract of the United States: 2000*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 2000

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	28.4	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	1/ 8.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	1/ 11.5
Hilo-Kailua, via Naalehu	1/ 123.0	OAHU 2/	
Hilo-Kailua, via Saddle Rd.	1/ 84.0	Honolulu-Ala Moana Center	1.5
Hilo-Kailua, via Hamakua	98.1	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Saddle Rd.	60.9	Honolulu-Waikiki	3.2
Hilo-Waimea, via Hamakua	1/ 55.7	Honolulu-Waimanalo, via Koko Head	21.2
Hilo-Upolu Pt., via Hamakua	1/ 89.6	Honolulu-Waimanalo, via Nuuanu	1/ 16.0
Hilo-Kawaihae, via Hamakua	1/ 67.5	Honolulu-Kailua, via Nuuanu	13.0
Waimea-Hawi	1/ 20.2	Honolulu-Kaneohe, via Kalihi	12.0
Waimea-Kawaihae	10.0	Honolulu-Kahuku, via Kahaluu	38.0
Kawaihae-Hawi	1/ 17.3	Honolulu-Kahuku, via Wahiawa	48.0
Kawaihae-Kailua	34.3	Honolulu-Kaena Pt., via Wahiawa	1/ 43.4
Kailua-Keahole Airport	1/ 7.3	Honolulu-Kaena Pt., via Waianae	43.7
Kailua-Keauhou	1/ 5.7	Honolulu-Wahiawa	23.0
MAUI		Honolulu-Pearl Harbor Shipyard	1/ 8.0
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	1/ 6.5
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.2	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	32.6
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.5
Wailuku-Makena	17.9	Circle island, via Nuuanu Pali	81.6
Wailuku-Lahaina, via Kahakuloa	38.0	KAUAI	
Wailuku-Lahaina, via Olowalu	20.9	Lihue-Haena	38.2
Kahului-Kihei	8.2	Lihue-Wailua	5.9
Lahaina-Wailea	32.4	Lihue-Lihue Airport	2.0
Lahaina-Napili	8.9	Lihue-Poipu	11.9
Lahaina-Kaanapali	3.7	Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	3.1	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	7.5	Poipu-Princeville	40.7

1/ Revised.

2/ Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1998 AND 1999

[Excludes private roads and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1998				
State total	4,216.95	88.58	3,930.44	197.93
Hawaii	1,484.23	-	1,424.93	59.30
Maui	617.77	-	561.07	56.70
Lanai	129.26	-	117.26	12.00
Molokai	46.59	-	35.59	14.00
Oahu	1,527.11	88.58	1,405.09	33.44
Kauai	411.99	-	389.50	22.49
Niihau	-	-	-	-
1999				
State total	4,256.14	88.58	3,969.63	197.93
Hawaii	1,493.69	-	1,434.39	59.30
Maui	620.08	-	563.38	56.70
Lanai	134.86	-	122.86	12.00
Molokai	47.54	-	33.54	14.00
Oahu	1,547.56	88.58	1,425.54	33.44
Kauai	412.41	-	389.92	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.03-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1975 TO 1997

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1975	1980	1985	1990	1994	1997
Total mileage	3,743	3,912	4,070	4,101	4,100	4,164
Paved	3,355	3,591	3,808	3,887	3,902	3,966
Unpaved	389	321	262	214	198	198

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 2000

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	760	Airport Viaduct	14,890	Nanue	208
Hawaii	133	Hakalau	775	Nanue	208
Maui	99	Honokahua	600	Uaoa	79
Lanai	-	None	-	None	-
Molokai	19	Manawainui	360	Manawainui	50
Oahu	455	Airport Viaduct	14,890	Kipapa	156
Kauai	54	Hanamaulu	1,150	Wahiawa, Koloa	90

1/ Limited to bridges under State jurisdiction and longer than 20 feet.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2000

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
H-3: Inbound	4,890
Outbound	5,165
Middle Street	393
Hospital Rock Tunnel: Inbound	353
Outbound	354
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1990 TO 2000**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1990	911,283	889,096	718,204	55	4,308
1991	920,124	897,193	717,907	54	4,309
1992	908,738	885,761	703,983	53	4,282
1993	903,550	880,152	693,283	48	4,032
1994	898,008	875,144	691,158	53	3,772
1995	901,291	877,756	694,239	54	3,660
1996	907,770	884,617	703,094	59	3,468
1997	906,964	884,267	704,693	54	3,226
1998	915,753	893,427	713,732	61	3,084
1999	929,474	906,935	725,142	59	3,028
2000	964,738	941,242	754,840	56	2,902
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	Trailers and semi-trailers
1990	152,453	1,043	313	12,720	22,187
1991	159,831	972	323	13,797	22,931
1992	160,952	871	298	15,322	22,977
1993	165,209	757	283	16,540	23,398
1994	162,348	630	249	16,934	22,864
1995	161,609	567	239	17,388	23,535
1996	160,013	504	225	17,254	23,153
1997	158,457	457	220	17,160	22,697
1998	158,977	423	214	16,936	22,326
1999	161,067	407	224	17,008	22,539
2000	165,104	409	270	17,661	23,496

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1990 TO 2000**

[Taxable and exempt vehicles. Includes passenger cars, ambulances, buses, trucks, motorcycles and vehicles registered but subsequently scrapped or shipped out of the State. Excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1990	889,096	612,742	110,834	55,927	109,593
1991	897,193	613,119	113,265	57,751	113,058
1992	885,761	611,513	113,080	51,165	110,003
1993	880,152	604,602	111,138	54,068	110,344
1994	875,144	600,087	111,532	52,817	110,708
1995	877,756	601,239	111,624	52,364	112,529
1996	884,617	598,772	115,647	52,984	117,214
1997	884,267	595,121	118,364	53,904	116,878
1998	893,427	594,096	121,959	56,554	120,818
1999	906,935	597,610	126,039	57,882	125,404
2000	941,242	614,985	132,305	61,316	132,636

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 2000

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	964,738	626,737	138,616	63,831	135,554
Motor vehicles	941,242	614,985	132,305	61,316	132,636
Passenger vehicles 1/	759,840	505,327	101,761	44,423	103,329
Ambulances	56	33	10	-	13
Buses	2,902	2,311	251	16	324
Trucks 1/	165,104	94,856	27,597	15,961	26,690
Truck tractors	409	166	106	39	98
Truck cranes	270	154	34	14	68
Motorcycles, motorscooters 2/	17,661	12,138	2,546	863	2,114
Trailers and semi-trailers	23,496	11,752	6,311	2,515	2,918

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR COUNTIES: 2000

[Includes vehicles registered but subsequently scrapped or shipped out of state. Excludes trailers, semi-trailers and motorcycles]

Taxation status	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total registered	923,581	602,847	129,759	60,453	130,522
Taxable vehicles	858,960	541,640	128,471	59,658	129,191
Exempt vehicles	64,621	61,207	1,288	795	1,331
Federal government	368	348	16	1	3
State government	5,131	5,130	1	-	-
County government	6,638	4,399	612	536	1,091
Fire department	233	59	112	32	30
Police department	1,624	1,269	352	-	3
Consulates	61	61	-	-	-
Disabled veterans	151	84	11	49	7
Military non-resident	49,921	49,600	98	168	55
Farm	341	126	67	8	140
Horseless carriage	56	41	13	1	1
Electric vehicles	97	90	6	-	1

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1990

Vehicles available	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	356,267	41,461	265,304	62	16,295	33,145
None	35,159	3,100	29,406	26	777	1,850
1	128,513	14,676	98,542	6	4,573	10,716
2	127,011	16,154	91,032	24	6,699	13,102
3	43,580	5,316	30,415	6	2,874	4,969
4	15,187	1,606	10,996	-	907	1,678
5 or more	6,817	609	4,913	-	465	830

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 14 and 67.

Table 18.11-- TRUCK CHARACTERISTICS: 1982 TO 1997

Category (100 percent)	Selected characteristic	Percent of category			
		1982	1987	1992	1997
Total trucks (1,000)		...	160.8	280.3	294.2
Major use	Personal transportation	54.3	60.5	61.7	70.5
Body type	Pickup, panel, mini-van, and sport utility 1/	89.1	91.2	93.8	94.9
Vehicle size	Light	92.9	94.6	95.6	95.9
Annual miles	Less than 10,000	59.7	57.0	50.0	44.1
Year model	Over 4 years old	75.8	62.1	66.8	74.1
Vehicle acquisition	Purchased new	47.3	49.6	54.3	48.3
Truck type	Single-unit, 2 axles	96.6	96.4	96.6	97.7
Range of operation	Local	78.2	80.2	79.3	81.1
Fuel type	Diesel, liquefied gas, and other	3.7	5.4	4.7	4.8

1/ Includes station wagons and vans similar to panel trucks.

Source: U.S. Census Bureau, *1997 Economic Census, Vehicle Inventory and Use Survey, Hawaii*, EC97TV-HI (November 1998), tables 1a and 2; <http://www.census.gov/econ/www/viusmain.html>.

**Table 18.12-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY COUNTIES: 1992 TO 1999**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1992	83,357	47,082	17,503	10,928	7,844
1993	79,168	45,833	16,918	10,111	6,306
1994	83,093	46,664	18,940	10,660	6,829
1995	72,526	41,880	15,786	9,359	5,501
1996	68,765	40,425	14,497	8,527	5,316
1997	71,777	40,349	15,629	9,368	6,431
1998	74,408	40,249	17,332	9,553	7,274
1999	82,928	43,637	19,685	11,379	8,227

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

**Table 18.13-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY NAMEPLATE: 1997 TO 1999**

Nameplate	1997		1998		1999	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	71,777	...	74,408	...	82,928
Chevrolet/GEO	1	11,848	1	12,380	1	13,601
Ford	2	11,781	2	11,288	2	12,134
Toyota	3	7,634	3	8,176	3	9,084
Dodge	4	6,210	4	6,463	4	6,300
Nissan	5	5,204	5	5,745	5	6,034
Honda	6	4,823	6	4,531	6	5,660
All others	...	24,277	...	25,825	...	30,115

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

**Table 18.14-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, RETAIL AND RENTAL, BY PLACE OF MANUFACTURE:
1999**

Year and place of manufacture	Cars and trucks	Cars			Trucks		
		Total	Retail	Rental	Total	Retail	Rental
1999, total	82,928	73,452	35,927	37,525	9,476	9,127	349
Domestic	51,439	45,362	12,323	33,039	6,077	5,736	341
Imports	31,489	28,090	23,604	4,486	3,399	3,391	8
Percent imports	37.97	38.24	65.70	11.95	35.87	37.15	2.29

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1991 TO 2000**

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1991	699,664	501,260	86,181	38,894	73,329
1992	716,545	510,901	89,436	39,947	76,261
1993	734,381	522,016	92,264	41,910	78,191
1994	745,392	527,756	94,257	42,736	80,643
1995	732,508	516,780	94,048	42,041	79,639
1996	733,486	515,780	94,943	41,775	80,988
1997	738,865	517,904	96,665	42,079	82,217
1998	746,329	520,734	98,252	42,363	84,980
1999	752,693	521,671	100,331	43,141	87,550
2000	769,383	529,890	104,058	44,471	90,964

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1999 AND 2000**

Age	Both sexes		Male		Female	
	1999	2000	1999	2000	1999	2000
Total	752,693	769,383	397,203	405,584	355,490	363,799
15 to 19 years	37,729	40,698	20,507	21,879	17,222	18,819
20 to 24 years	61,871	66,100	32,874	35,351	28,997	30,749
25 to 34 years	144,852	144,257	75,087	74,961	69,765	69,296
35 to 44 years	169,232	167,841	86,660	85,957	82,572	81,884
45 to 54 years	153,371	158,032	80,312	82,438	73,059	75,594
55 to 64 years	89,741	94,036	48,284	50,492	41,457	43,544
65 to 74 years	61,527	62,563	32,749	33,258	28,778	29,305
75 to 84 years	30,440	31,678	17,974	18,377	12,466	13,301
85 years and over	3,930	4,178	2,756	2,871	1,174	1,307
Median age (years)	42	43	43	43	42	43

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1990 TO 2000, AND BY COUNTIES, 2000**

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1990	395,185	444	8,065.4	9,071
1991	406,819	453	8,142.2	9,075
1992	405,963	457	8,065.5	9,070
1993	409,940	468	7,945.3	9,063
1994	428,558	490	7,925.2	9,056
1995	422,884	482	7,944.1	9,051
1996	426,370	482	8,005.9	9,050
1997	421,499	477	8,003.0	9,050
1998	422,928	473	8,090.2	9,055
1999	417,374	460	8,215.2	9,058
2000	428,425	455	8,525.7	9,058
COUNTIES: 2000				
Honolulu	268,841	438	5,402.7	8,807
Hawaii	72,382	967	1,295.0	9,734
Kauai	26,604	425	645.4	10,301
Maui	60,598	459	1,182.6	8,955

1/ Includes gasoline, diesel oil, and butane gas.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1998 TO 2000

Site	1998	1999	2000
Pali Highway at tunnels	46,237	45,785	45,742
Likelike Highway at tunnels	32,515	31,937	30,762
H-1 Freeway at Manoa-Palolo Drainage Canal	114,395	115,205	115,239
H-1 Freeway at Kapalama Drainage Canal Bridge	222,631	222,016	208,152
Nimitz Highway at Kapalama Drainage Canal Bridge	71,277	75,545	79,505
Kalaniana'ole Highway east of Ainakoa Ave.	83,616	84,933	84,664

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU URBANIZED AREA AND THE AVERAGE OF 68 URBANIZED AREAS IN THE UNITED STATES: 1997

Subject	Honolulu	U.S. (average)
Freeway daily vehicle miles of travel (1,000)	5,730	15,030
Per lane-mile of freeway	14,325	15,240
Annual person hours of delay	16,070	63,560
Per 1,000 persons	23	35
Annual congestion cost:		
Per driver (dollars)	510	585
Per capita (dollars)	395	755
Delay and fuel cost (mil. dol.)	280	1,060

Source: Texas Transportation Institute, as cited in *Statistical Abstract of the United States: 2000*, p. 632.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1990 TO 1999, AND BY COUNTIES, 1997 TO 1999

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1990	2/ 26,640	154	2/ 14,036	176
1991	2/ 21,840	119	2/ 12,799	135
1992	2/ 21,835	121	13,403	128
1993	2/ 21,471	121	2/ 13,878	133
1994	19,851	110	13,310	122
1995	16,581	118	13,088	127
1996	13,285	132	11,729	145
1997	2/ 12,445	117	2/ 11,190	131
1998	11,543	113	10,303	120
1999	10,632	90	9,604	98
COUNTIES: 1997				
Honolulu	2/ 8,440	68	2/ 7,328	73
Hawaii	2/ 2,365	25	2/ 1,966	30
Kauai	2/ 471	11	2/ 451	14
Maui	1,169	13	1,445	14
COUNTIES: 1998				
Honolulu	7,769	61	6,740	63
Hawaii	2,173	39	1,793	43
Kauai	497	3	455	3
Maui	1,104	10	1,315	11
COUNTIES: 1999				
Honolulu	7,068	40	6,111	43
Hawaii	2,122	28	1,819	31
Kauai	477	7	477	8
Maui	965	15	1,197	16

1/ Through 1990, includes traffic accidents with damage of \$300 or more or causing injury or death. Effective 1991, includes only accidents with damage of \$1,000 or more or causing injury or death. Effective June 20, 1995, includes only accidents with damage of \$3,000 or more or causing injury or death.

2/ Revised.

Source: Hawaii State Department of Transportation, Highways Division, Traffic Safety Section, records.

**Table 18.21-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1998 TO 2000**

[As of December 31]

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	1998	1999	2000	1998	1999	2000
Hawaii	180	163	170	4,232	4,654	4,693
Maui	216	216	200	4,567	4,057	3,247
Lanai	-	-	-	101	74	55
Molokai	-	-	-	199	237	183
Oahu	1,365	1,213	(NA)	92,372	91,635	116,459
Kauai	-	-	-	721	3/ 1,770	1,095

NA Not available.

1/ Licensed during the calendar year. Taxicabs are licensed annually, except in Kauai County, where registration is not required.

2/ Bicycles with wheels having a diameter of 20 inches or more and all mopeds, both of which were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially; see SLH 1988, Act 264, sec. 1.

3/ Effective January 1, 1999 bicycles and mopeds are issued permanent registration.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from data provided by the County departments of finance.

**Table 18.22-- PASSENGER CAR RENTAL AND LEASING
(NAICS 53211): 1992 AND 1997**

[Excludes establishments without payroll. Data for 1992 are for SIC 751, automotive rental and leasing without drivers]

Subject	State total	Counties			
		Hawaii	Honolulu	Kauai	Maui
Number of establishments:					
1992	82	18	36	6	22
1997	63	11	25	8	19
Revenue (1000 \$):					
1992	332,100	38,600	195,000	23,600	74,800
1997	347,624	45,172	154,679	43,014	104,759

Source: U.S. Census Bureau, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (Aug. 1994), tables 1a, 6, and 7a, and *1997 Economic Census, Real Estate and Rental and Leasing, Hawaii* (Aug. 1999), tables 1 to 3.

**Table 18.23-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
SEPTEMBER 2000**

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,770	7,746	139,102	5,271	32,255
Hawaii	202	1,033	18,897	1,072	5,590
Maui	294	1,648	31,821	856	4,275
Honolulu	1,158	4,551	79,707	2,894	20,322
Kauai	116	514	8,677	449	2,868

1/ Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 18.24-- PUBLIC TRANSIT, FOR OAHU: 1989 TO 1999

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
1989	475	17,525,608	74,964,453	18,843,083
1990	475	18,080,500	75,648,930	18,914,500
1991	475	18,308,282	76,540,997	19,283,803
1992	475	18,437,228	78,416,523	19,534,923
1993	495	18,507,642	79,343,403	20,751,058
1994	495	19,323,877	79,309,437	24,849,857
1995	525	19,277,975	80,837,153	26,960,330
1996	525	19,407,383	76,363,729	30,262,762
1997	525	19,748,202	74,407,852	29,572,046
1998	525	19,751,725	71,215,529	28,488,959
1999	525	20,017,779	69,660,916	27,324,442

1/ Estimated number of vehicle miles.

2/ Estimated number of passengers, including senior citizens and disabled.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.25-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1998 AND 1999

[Calendar year data for City and County of Honolulu bus system]

Fare category	1998	1999
All passengers	71,215,529	69,660,916
Students	12,175,435	11,627,724
School subsidy	475,208	466,379
Stadium express	5,832	17,961
Senior citizens and disabled	14,350,549	14,052,903
Free transfers	3,521,051	3,335,456
Visitor pass	488,770	452,590
Average bus speed (m.p.h.)	15.0	14.9

NA Not available.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.26-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 2001

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	Youth	Adult	Youth
March 2, 1971	.25	.10
June 9, 1972 2/	.25, .50	.10, .25
March 15, 1974	.25	.10
November 1, 1979	.50	.25	15.00	7.50
June 18, 1984	.60	.25	15.00	7.50
October 1, 1993	.85	.25	20.00	7.50
July 1, 1995	1.00	.50	25.00	12.50
July 1, 2001 3/	1.50	.75	27.00	13.50

1/ In addition, there have been special fares for disabled persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated and later eliminated.

3/ Most recent change.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records; <http://www.thebus.org/Info/NewFares.asp>, accessed June 29, 2001.

**Table 18.27-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1987 TO 2000**

[The Lahaina Kaanapali & Pacific Railroad operates between Lahaina and Kaanapali on the island of Maui and the Hawaiian Railway operates in the Ewa District on the island of Oahu]

Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway		Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway	
	Miles of track	Passengers	Miles of track	Passengers		Miles of track	Passengers	Miles of track	Passengers
1987	6.0	244,555	(NA)	(NA)	1994	6.0	390,862	5.0	1/ 12,821
1988	6.0	285,139	(NA)	(NA)	1995	6.0	447,211	6.5	16,704
1989	6.0	296,391	(NA)	(NA)	1996	6.0	418,099	6.5	19,678
1990	6.0	308,910	(NA)	(NA)	1997	6.0	369,327	6.5	20,850
1991	6.0	316,079	(NA)	(NA)	1998	6.0	(NA)	6.5	19,763
1992	6.0	385,261	(NA)	(NA)	1999	6.0	281,161	7.0	14,733
1993	6.0	388,484	(NA)	(NA)	2000	(NA)	(NA)	7.0	13,962

NA Not available.

1/ Data incomplete.

Source: Lahaina Kaanapali & Pacific Railroad, records and <http://www.statesrail.com>; Hawaiian Railway, records.

**Table 18.28-- AIRPORTS AND HELIPORTS, BY CONTROL,
BY ISLANDS: 1998 AND 1999**

[As of December 31]

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1998						
State total	9	7	6	1	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-
1999						
State total	9	7	6	1	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-

1/ Excludes private airports.

2/ Excludes military and private heliports.

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provide regular air service.

4/ Owned by the U.S. Department of the Interior, Fish and Wildlife Service.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.29-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993 AND 1996

Subject	Rank 1/				Number			
	1991	1992	1993	1996	1991	1992	1993	1996
Total aircraft operations	16	22	24	26	403,570	403,708	358,543	372,099
Air carrier operations	21	21	23	22	196,047	202,559	185,959	203,520
Total enplaned passengers 2/	15	15	19	23	8,772,316	8,740,091	8,484,364	9,124,893

1/ Among all FAA-operated airport traffic control towers in the United States.

2/ For large scheduled certificated air carriers, both scheduled and nonscheduled operations.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual); <http://www.bts.gov/ntda>.

Table 18.30-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1998 AND 1999

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

Airport	Total operations	Air carrier	Air taxi	General aviation	Military
1998					
Honolulu International	334,046	182,795	39,179	90,135	21,937
Kahului	180,890	63,336	84,546	29,509	3,499
Kona International	81,285	27,068	9,346	37,137	7,734
Lihue	105,979	30,691	55,953	15,951	3,384
Hilo International	112,479	21,537	54,894	28,087	7,961
Molokai	49,353	1,163	30,080	15,425	2,685
1999					
Honolulu International	346,609	197,839	36,985	91,743	20,042
Kahului	188,385	62,883	92,589	29,575	3,358
Kona International	82,955	27,500	8,860	37,588	9,007
Lihue	115,523	33,173	58,778	18,995	4,577
Hilo International	115,820	22,189	51,875	33,248	8,508
Molokai	49,184	1,469	30,286	14,169	3,260
Kalaeloa	75,293	-	27	64,160	11,106

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.31-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1989 TO 1999**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu Inter- national Airport	Hilo Inter- national Airport 1/	Kona International Airport 2/	Kahului Airport	Lihue Airport	Molokai Airport
1989	403,635	93,202	55,674	177,803	116,742	47,208
1990	407,048	98,755	60,086	182,686	113,860	43,509
1991	403,566	88,206	56,140	180,857	112,679	47,898
1992	403,628	91,055	63,939	178,752	103,686	35,662
1993	358,505	92,297	59,904	172,265	70,910	39,057
1994	359,569	86,292	66,438	179,227	91,582	38,369
1995	373,926	84,917	73,537	179,883	97,400	45,517
1996	372,268	87,862	77,025	178,590	106,332	49,221
1997	358,784	101,521	87,358	173,342	111,349	44,667
1998	334,046	112,479	81,285	180,890	105,979	49,353
1999	346,609	115,820	82,955	188,385	115,523	49,184

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

2/ Formerly Keahole Airport; effective June 16, 1997, the new name is The Kona International Airport at Keahole.

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.32-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING
HAWAII: 1996 TO 1999**

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines
and other air taxi service]

Service	1996	1997	1998	1999
All carriers	39	40	40	43
Transpacific only	24	25	27	29
Domestic	12	12	12	12
Foreign	12	13	15	17
Transpacific and interisland	5	6	4	4
Interisland only	10	9	9	10
Passenger carriers	6	6	5	6
Cargo and mail only	4	3	4	4

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.33-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 1999 AND 2000**

[Non-stop flights only, does not include charter flights.]

Airport	1999	2000
State of Hawaii	8,699,403	9,250,490
Honolulu International	7,270,933	7,644,473
Kahului	1,024,579	1,099,940
Kona International	323,645	406,693
Lihu'e	80,246	99,384
Domestic	5,188,776	5,730,382
International	3,510,627	3,520,108

Source: *OAG FlightDisk Worldwide Edition*.

Table 18.34-- CIVIL FLYING: 1990 TO 1993 and 1996

Item	1990	1991	1992	1993	1996
Aircraft facilities, Dec. 31	50	48	47	47	46
Airports	34	33	32	32	30
Heliports	16	15	15	15	16
Public aircraft facilities, Dec. 31	16	17	17	18	18
Paved and lighted facilities, Dec. 31	12	12	13	13	13
Large aircraft in operation, Dec.	52	56	59	50	(NA)
Aloha Airlines	17	19	21	17	(NA)
Hawaiian Airlines	35	29	29	24	(NA)
Mid Pacific Airlines	-	8	9	9	(NA)
General aviation: 1/					
Active civil aircraft, Dec.	561	484	372	312	364
Hours flown (1,000)	278	259	176	140	155
Active personnel, Dec. 31:					
Pilots, except instructors	3,505	3,339	3,293	3,088	2,561
Flight instructors	309	350	388	360	378
Nonpilot airmen 2/	3,306	3,492	3,711	3,828	3,850

N/A Not available.

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1996, 34.6 percent for aircraft and 52.3 percent for hours).

2/ Mechanics, parachute riggers, ground instructors, dispatchers, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

Table 18.35-- SELECTED STATISTICS FOR ALOHA AND HAWAIIAN AIRLINES: 1998 AND 1999

Subject	Aloha Airlines		Hawaiian Airlines	
	1998	1999	1998	1999
Number of aircraft	19	21	24	27
Employees, full-time equivalent	1,971	1,995	2,423	2,766
Aircraft departures	76,188	76,508	56,240	60,815
Passengers (1,000)	5,144	5,077	5,000	5,410
Revenue passenger miles (million)	712	702	3,619	4,021
Passenger revenues (million dollars)	193	193	354	400
Cargo revenues (million dollars)	28	29	20	21
Operating revenues (million dollars)	229	230	426	489
Operating profit/loss (million dollars)	8	(4)	17	(40)
Net profit/loss (million dollars)	5	(2)	8	(29)

Source: Air Transport Association, annual report at <http://www.air-transport.org/public/industry>.

Table 18.36-- HAWAII LOCATIONS AMONG THE TOP 30 DOMESTIC AIRLINE MARKETS: 1998 and 1999

[Includes all commercial airports in a metropolitan area.
Does not include connecting passengers.]

Rank	Origin or destination	Passengers (1,000)
1998		
6	Honolulu - Kahului	2,541
16	Honolulu - Lihue	1,637
18	Honolulu - Kona	1,467
25	Honolulu - Los Angeles	1,335
1999		
7	Honolulu - Kahului	2,691
16	Honolulu - Lihue	1,749
22	Honolulu - Kona	1,459
26	Honolulu - Los Angeles	1,389

Source: Air Transport Association, annual report at <http://www.air-transport.org/public/industry>.

**Table 18.37-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1988 TO 1998**

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers 1/			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1988	6,653,346	6,713,621	1,421,707	8,964,928
1989	7,022,986	7,234,653	1,167,954	9,634,077
1990	7,310,635	7,562,156	1,065,408	9,907,154
1991	7,135,595	7,215,323	1,020,464	9,368,576
1992	7,248,645	7,087,463	1,318,044	9,568,434
1993	6,924,571	6,907,236	1,298,684	9,345,320
1994	7,309,894	7,478,052	956,926	9,920,709
1995	7,517,273	7,692,494	750,495	10,388,281
1996	7,700,229	7,992,620	690,833	10,581,825
1997	7,788,367	7,874,798	706,030	10,448,099
1998	7,576,988	7,728,768	(NA)	10,075,448

NA Not applicable

1/ Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.38-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1999

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,737,494	7,699,676	207,339	179,714	30,705	55,488
Honolulu	2/ 6,604,650	6,392,667	193,282	171,115	29,267	55,487
Hilo	-	-	-	-	-	-
Kahului	854,706	969,881	6,945	5,937	1,102	1
Kona 3/	198,599	253,630	7,070	2,562	336	-
Lihue	79,539	83,498	-	100	-	-
INTERISLAND						
Total	10,173,069	10,173,069	69,184	69,184	23,893	23,893
Honolulu	4,493,189	4,693,657	41,221	24,858	18,381	5,496
Hilo	778,771	808,154	10,906	8,980	1,193	2,491
Upolu	3	-	-	-	-	-
Waimea-Kohala	931	906	5	20	147	873
Kona 3/	1,166,265	1,049,688	5,513	8,172	805	4,748
Kahului	2,129,704	2,017,788	5,324	14,911	2,263	7,592
Hana	4,184	3,909	42	11	-	-
Kapalua	68,336	66,966	277	360	-	-
Molokai	132,540	137,212	441	967	35	204
Kalaupapa	4,150	3,996	15	174	1	3
Lanai	88,598	87,043	112	665	15	113
Lihue	1,306,322	1,303,694	5,328	10,066	1,053	2,373
Princeville 4/	76	56	-	-	-	-
Dillingham (USA)	-	-	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (376,236, passing through Honolulu International Airport).

3/ Formerly Keahole Airport.

4/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.39-- AIR CARGO AND AIRMAIL: 1989 TO 1999

Calendar year	Overseas air cargo (in thousands of pounds)		Overseas airmail (in thousands of pounds)		Interisland (in U.S. tons)	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: outgoing & incoming	Airmail: outgoing & incoming
1989	313,402	301,674	28,258	33,542	146,960	20,706
1990	295,326	337,724	32,022	38,198	145,418	22,848
1991	306,376	342,032	33,658	44,281	144,104	23,673
1992	305,224	305,658	39,268	66,052	153,912	25,594
1993	307,302	255,516	52,324	112,970	147,054	26,406
1994	339,086	308,962	47,921	121,964	148,904	27,964
1995	336,764	276,416	49,056	118,098	149,174	27,646
1996	355,466	296,856	48,654	114,408	160,784	29,572
1997	424,990	363,598	51,212	110,336	173,154	31,272
1998	508,858	311,196	56,902	107,039	140,034	40,548
1999	414,678	359,426	61,410	110,975	138,368	47,786

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.40-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JULY 2000

[Data for the 552 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
London	7	7	-
Newark	7	7	-
Toronto	10	10	-
Detroit	14	14	-
Atlanta	14	14	-
Chicago	16	16	-
St. Louis	7	7	-
Minneapolis	7	7	-
Houston	7	7	-
Dallas/Fort Worth	22	15	7
Memphis	7	7	-
Salt Lake City	7	7	-
Phoenix	2	-	2
Las Vegas	15	15	-
Los Angeles	130	94	36
Seattle	26	19	7
San Francisco	81	74	7
San Jose	7	7	-
Portland	7	7	-
Vancouver	11	11	-
Anchorage	2	2	-
Guam	10	10	-
Tokyo, Narita	60	60	-
Tokyo, Haneda	5	-	5
Nagoya	7	7	-
Osaka, Kansai	21	21	-
Fukuoka	7	7	-
Seoul	7	7	-
Taipei	11	11	-

Continued on next page.

**Table 18.40-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 2000 -- Con.**

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	2	2	-
Rarotonga	1	-	1
Pago Pago	3	3	-
Apia	1	-	1
Tongatapu	1	-	1
Nadi	8	6	2
Auckland	7	6	1
Wellington	1	1	-
Sydney	7	7	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked* ^[m] July 2000. Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

**Table 18.41-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND
CITIES, FOR UNITED AIRLINES: 1995 TO 2000**

[As of July 1. Unrestricted one-way weekday coach fares in dollars]

Between Honolulu and--	1995	1996	1997	1998 1/	1999	2000
Los Angeles	716	530	521	521	536	576
San Francisco	596	530	521	521	536	576
Chicago	916	-	925	924	952	982

1/ As of July 27.

Source: United Airlines, records.

Table 18.42-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1996 TO 2000

[As of July 1. Prior to May 21, 1997, fares were identical between Honolulu and each of the Neighbor Islands]

Category	1996	1997 1/		1998	1999	2000
		Zone 1	Zone 2			
Regular fare	85	78	80	88	94.75	94.50
Kamaaina fare: 2/						
Monday - Thursday	48	45	47	3/ 55	61.75	61.50
Friday - Sunday	48	47	49	3/ 57	63.75	63.50

1/ Fares based upon zones were used for only a short period of time.

2/ Available only to Hawaii residents.

3/ Lowest of three levels of kamaaina fares.

Source: Hawaiian Airlines, records.

**Table 18.43-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR UNITED AIRLINES:
JULY 2-8, 1999 AND 2000**

[Dollars. Includes taxes but does not reflect \$3.00 airport charge where applicable]

Fare category	Los Angeles	San Francisco	Seattle
1999			
One-way:			
First class	1,014	1,265	1,347
Coach (unrestricted)	536	536	520
Round-trip:			
First class	2,028	2,530	2,694
Coach (unrestricted)	1,072	1,072	1,040
Lowest round-trip: 2/	434	432	432
2000			
One-way:			
First class	1,067	1,326	1,410
Coach (unrestricted)	579	579	563
Round-trip:			
First class	2,134	2,652	2,820
Coach (unrestricted)	1,158	1,158	1,126
Lowest round-trip: 2/	478	558	598

1/ For earlier years, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 12, pp. 40-41.

2/ Restrictions apply. Fares are subject to change without notice. Payment up to 21 days before travel may be required. Fare may not be available for travel on certain days of the week or holidays.

Source: United Airlines, records.

Table 18.44-- STATE COMMERCIAL HARBORS: 1999

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,669	122	566
Kawaihae	40	35	1,500	1,450	1,562	23	427
Maui:							
Kahului	35	35	2,400	2,050	3,019	113	1,223
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu: 1/ Main	} 45	40	{ 3,300	1,520	} 29,308	1,673	8,935
Kapalama							
Barbers Point	42	38	2,100	1,800	1,860	63	1,703
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,916	70	1,379
Port Allen	35	35	1,500	1,200	1,200	35	32

1/ The piers were 28,631 linear feet in 1996.

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.45-- STATE COMMERCIAL HARBORS: 2000

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)			
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open		
Hawaii:	35	35	2,300	1,400	2,669	122	566		
Hilo	40	35	1,500	1,450	1,562	23	427		
Kawaihae									
Maui:	35	35	2,400	2,050	3,019	113	1,223		
Kahului									
Molokai:	23	23	1,500	600	691	7.4	129		
Kaunakakai									
Oahu:									
Honolulu: 1/ Main	}	45	}	3,300	1,520	}	29,347	1,303	9,209
Kapalama				3,400	1,000				
Barbers Point		42		2,100	1,800		1,860	36	1,703
Kauai:									
Nawiliwili	40	35	1,950	1,540	1,916	70	1,379		
Port Allen	35	35	1,500	1,200	1,200	35	32		

1/ The piers were 28,631 linear feet in 1996. All other figures in this table are identical in 1996 and 1997.
 Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.46-- HARBOR DEPTHS: 1999

[In feet]

Harbor	Controlling depth		Project depth	
	Entrance channel	Basin	Entrance channel	Basin
Hilo	...	34	...	35
Kawaihae	42	36	40	35
Kahului	...	34	...	35
Honolulu	45	40	45	40
Barbers Point	42	37	42	38
Naviliwili	41	34	40	35

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Waterborne Commerce of the United States (annual)*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcuspac99.pdf>.

**Table 18.47-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: DECEMBER 31, 2000**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,723	1,432	365	223	487	274
Hawaii	274	268	79	77	77	77
Maui	135	129	125	111	129	119
Oahu	1,200	1,056	140	130	169	146
Kauai	114	108	21	16	112	9

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

**Table 18.48-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1999**

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation				Greatest nominal range (naut. miles)	Highest above--	
	By control			Light-houses		Sea level (feet)	Ground (feet)
	Total	Federal	Other 1/				
Total	577	181	396	20	2/ 25	3/ 913	4/ 138
Hawaii	68	31	29	8	24	156	115
Maui	75	27	46	2	24	170	48
Molokini	1	1	-	-	7	182	30
Kahoolawe	3	1	2	-	7	120	20
Lanai	18	8	9	1	8	91	13
Molokai	32	16	9	5	25	213	138
Oahu	246	54	188	4	25	913	71
Kauai	42	13	29	-	25	174	80
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	19	19	-	-	4	43	38
At sea	72	10	62	-	-	-	-

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Molokai Light, Kaena Point Light, and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, records.

**Table 18.49-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 2000**

Subject	Number	Subject	Number
Certificates outstanding	14,874	Type of vessel:	
Length:		Cabin motorboat	2,535
Under 16 feet	5,680	Open motorboat	5,505
16 to less than 26 feet	7,476	Runabout	2,643
26 to less than 40 feet	1,537	Sail/inboard }	1,159
40 to 65 feet	169	Sail/outboard }	
Over 65 feet	12	Sail only	653
Hull material:		Motor vessel over 65 feet	3
Wood	711	Thrill craft under 16 feet	1,126
Fiberglass	12,629	Uses:	
Metal	493	Pleasure	13,194
Inflatable	822	Commercial fishing	429
Other	195	Charter fishing	15
Propulsion:		Commercial passenger	247
Inboard	4,454	Other commercial	158
Outboard	4,837	Livery	421
Inboard/outboard	2,172	Dealer or manufacturer	32
Sail/inboard	608	Youth group	70
Sail/outboard	561	Government	266
Sail only	626	Other	42
Manual	358	Island where vessel is kept:	
Waterjet	1,178	Hawaii	2,420
Other	80	Kauai	1,728
Type of storage:		Lanai	81
Moored on water	4,141	Maui	1,595
Moored on land	10,718	Molokai	206
		Oahu	8,829

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

Table 18.50-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1994 TO 2000

Category	1994	1995	1996	1997	1998	1999	2000
Documented 1/ Numbered 2/	(NA) 13,839	(NA) 14,470	(NA) 15,177	(NA) 15,138	(NA) 15,138	(NA) 15,481	(NA) 14,874

NA Not available.

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. As of June 30 through 1990 and December 4, 1991. Series discontinued after 1991.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Land & Natural Resources, Division of Boating & Ocean Recreation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. As of December 31.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration (annual)*.

Table 18.51-- BOATING ACCIDENTS: 1990 TO 2000

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
1990	21	2	3	6	25	271.7
1991	19	3	5	14	19	189.5
1992	19	(NA)	3	5	(NA)	472.4
1993	19	3	3	4	25	219.4
1994	25	3	4	9	28	256.9
1995	91	(NA)	18	(NA)	(NA)	(NA)
1996	46	(NA)	3	(NA)	(NA)	(NA)
1997	43	(NA)	3	(NA)	(NA)	(NA)
1998	42	(NA)	4	(NA)	(NA)	(NA)
1999	26	1	1	11	(NA)	(NA)
2000	22	2	2	11	22	244.8

NA Not available.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics (annual)*; Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Reportable Boating Accident Statistics for Period 1988 to 1990* and *Recreational Boating Accident Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Recreational Boating Accident Statistics 1991 through 1993*; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, records.

Table 18.52-- VESSEL ARRIVALS, BY DRAFT: 1998 AND 1999

[Excludes domestic fishing craft]

Harbor	1998			1999		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	934	875	59	934	788	35
Kawaihae	650	647	3	639	623	16
Kahului	1,351	1,152	199	1,442	1,160	282
Kaunakakai	862	1/ 826	-	771	1/ 771	-
Kalaupapa	6	2/ 6	-	20	4/ 20	-
Honolulu	8,843	6,921	1,922	7,666	6,003	1,663
Barbers Point	1,740	1,622	118	1,922	1,759	163
Nawiliwili	645	603	42	647	601	46
Port Allen	777	3/ 777	-	1,040	5/ 1040	-

1/ 21 feet and less.

2/ 14 feet and less.

3/ 19 feet and less.

4/ 15 feet and less.

5/ 16 feet and less.

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Waterborne Commerce of the United States* (annual), Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcuspac99.pdf>.

Table 18.53-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1984 TO 2000

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
1984	1,686	4,870,182	2,660	2,369,863
1985	1,749	5,071,250	2,412	1,884,925
1986	1,825	5,379,135	2,697	2,121,858
1987	2,080	5,736,005	2,848	2,135,235
1988	2,014	6,586,749	3,172	2,746,776
1989	2,024	6,877,963	3,101	2,892,709
1990	2,159	7,439,568	3,212	2,917,984
1991	2,066	6,939,735	3,190	3,962,085
1992	2,104	8,235,947	3,207	3,101,050
1993	1,918	7,462,619	2,440	2,731,645
1994	1,603	6,434,257	2,737	2,372,971
1995	1,790	6,064,842	2,996	2,096,597
1996	1,650	6,150,398	2,831	2,349,354
1997	1,604	6,244,158	2,679	2,312,266
1998	1,320	6,732,716	4,309	1,765,496
1999	1,262	5,721,503	2,249	1,730,662
2000	1,292	5,382,309	2,215	1,959,455

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.54-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1995 TO 2000**

[Fiscal years ended June 30]

Type of passenger	1995	1996	1997	1998	1999	2000
Overseas:						
In	17,517	14,851	18,262	25,570	45,494	31,767
Out	17,957	16,128	17,527	28,932	44,389	31,845
Interisland:						
In	68,699	44,982	46,825	43,522	47,950	52,570
Out	68,849	45,159	40,558	43,754	47,782	52,883

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.55-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1990 TO 1999**

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1990	1,690	887	2,409	11,341	8,034	959
1991	1,556	745	2,434	11,208	9,002	1,005
1992	1,588	790	2,357	11,522	8,824	1,143
1993	1,469	655	2,216	10,595	9,357	1,283
1994	1,455	736	2,368	11,672	9,022	1,151
1995	1,354	873	2,586	11,545	8,233	1,130
1996	1,442	969	2,828	12,010	8,745	1,203
1997	1,489	980	2,895	12,704	8,162	1,091
1998	1,630	886	2,851	13,723	6,658	938
1999	1,701	1,090	3,513	12,259	8,707	1,848

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Waterborne Commerce of the United States* (annual), Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcuspac99.pdf>

Table 18.56-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1999

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,701	1,090	3,513	12,259	8,707	1,348
Foreign						
Imports	78	-	34	1,391	4,942	3
Exports	-	-	-	310	296	-
Canadian						
Imports	-	-	-	48	53	-
Exports	-	-	-	-	-	-
Domestic, total	1,624	886	3,479	10,510	3,416	1,346
Coastwise						
Receipts	1,183	662	2,125	5,551	2,237	845
Shipments	440	428	1,353	4,884	1,170	501
Internal & intraport	-	-	-	74	9	-

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1999 Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcuspac99.pdf>

**Table 18.57-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1999**

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,701	1,261	440
Petroleum and petroleum products	389	389	-
Fabricated non-iron metal products	707	398	309
Food and farm products	152	104	48
Manufactured equipment, machinery and products	252	185	67
Kawaihae	1,090	662	428
Fabricated non-iron metal products	693	351	343
Food and farm products	88	75	13
Manufactured equipment, machinery and products	215	149	66
Kahului	3,513	2,159	1,353
Petroleum and petroleum products	563	558	6
Fabricated non-iron metal products	1,489	817	673
Food and farm products	646	177	469
Manufactured equipment, machinery and products	492	320	173
Honolulu	12,259	6,990	5,268
Petroleum and petroleum products	1,747	1,119	627
Lumber	322	178	143
Fabricated non-iron metal products	3,808	1,730	2,078
Food and farm products	2,199	1,367	831
Manufactured equipment, machinery and products			
Vehicles and parts	2,805	1,667	1,138
Barbers Point	8,707	7,272	1,475
Petroleum and petroleum products	8,116	6,748	1,367
Cement and concrete	237	181	55
Nawiliwili	1,348	848	501
Fabricated non-iron metal products	718	453	265
Food and farm products	239	83	155
Manufactured equipment, machinery and products	246	168	78
Kaunakakai	195	(NA)	(NA)
Port Allen	4	(NA)	(NA)

NA Not available.

1/ Includes foreign imports and coastwise receipts.

2/ Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, 1999 *Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcuspac99.pdf>

**Table 18.58-- TRANSPORTATION AND WAREHOUSING SUMMARY STATISTICS
FOR THE STATE: 1997**

NAICS code	Kind of business	Establish- ments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
48-49	Transportation & warehousing 1/ 2/	686	1,249,280	427,727	16,684
481	Air transportation 1/	32	117,500	20,369	777
483	Water transportation	23	184,212	36,876	1,092
484	Truck transportation	190	242,560	81,023	2,897
485	Transit & ground passenger transportation	86	114,434	89,033	3,547
487	Scenic & sightseeing transportation	150	267,338	81,517	4,346
488	Support activities for transportation	134	194,910	79,929	2,551
492	Couriers & messengers	54	83,146	32,075	1,229
493	Warehousing & storage	17	45,180	6,905	245

1/ Data do not include large certificated passenger carriers that report to the Office of the Airline Statistics, U.S. Department of Transportation.

2/ Railroad transportation and U.S. Postal Service are out of scope for the 1997 Economic Census.

Source: U.S. Census Bureau, *1997 Economic Census, Transportation and Warehousing, Geographic Area Series*, EC97T48A-HI (January 2000).

**Table 18.59-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND
DESTINATION: 1997**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	11,272	22,290	1,330
Destination:			
Hawaii	10,773	22,072	648
California	234	146	388
Washington	38	12	44
Other states	227	60	250
Mode of transportation:			
Single modes:			
Truck	6,696	12,066	153
Water	349	(S)	(S)
Air (includes truck and air)	357	55	42
Pipeline	1,305	7,162	(S)
Multiple modes:			
Parcel, U.S. Postal Service or courier	570	13	6
Truck and water	1,139	779	563
Other multiple modes	(S)	(S)	202
Other and unknown modes	725	734	89
Distance shipped:			
Less than 50 miles	8,854	19,874	239
50 to 249 miles	1,914	2,194	407
250 to 1,999 miles	5	(S)	(S)
2,000 miles or more	499	218	682
Commodity: 1/			
Other agricultural products 2/	326	(S)	(S)
Meat, fish, seafood & their preparations	973	241	20
Other prepared foodstuffs, fats & oils	1,274	1,305	631
Gasoline/aviation turbine fuel	2,187	7,387	193
Fuel oils	748	4,622	(S)
Pharmaceutical products	515	6	1
Printed products	545	369	9
Textiles, leather, and articles of textiles or leather	577	27	3
Electronic and other 3/	467	33	3

S Data do not meet publication standards due to high sampling variability or other reasons.

1/ Based on the Standard Classification of Transported Goods (SCTG) coding system. Includes subgroups not shown separately.

2/ Excluding live animals, live fish and cereal grains.

3/ Electronic and other electrical equipment and components and office equipment.

Source: U.S. Census Bureau, *1997 Economic Census, Transportation, 1997 Commodity Flow Survey, Hawaii*, EC97-TCF-HI (December 1999), tables 1a, 3, 6 and 7.