

Section 18: Transportation



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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: 1999*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1999

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	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	12.6
Hilo-Kailua, via Naalehu	124.0		
Hilo-Kailua, via Saddle Rd.	87.4	OAHU 1/	
Hilo-Kailua, via Hamakua	98.1		
Hilo-Waimea, via Saddle Rd.	60.9	Honolulu-Ala Moana Center	1.5
Hilo-Waimea, via Hamakua	56.8	Honolulu-UH, via King Street	3.2
Hilo-Upolu Pt., via Hamakua	88.3	Honolulu-Waikiki	3.2
Hilo-Kawaihae, via Hamakua	66.8	Honolulu-Waimanalo, via Koko Head	21.2
Waimea-Hawi	21.4	Honolulu-Waimanalo, via Nuuanu	12.6
Waimea-Kawaihae	10.0	Honolulu-Kailua, via Nuuanu	13.0
Kawaihae-Hawi	19.3	Honolulu-Kaneohe, via Kalihi	12.0
Kawaihae-Kailua	34.3	Honolulu-Kahuku, via Kahaluu	38.0
Kailua-Keahole Airport	6.8	Honolulu-Kahuku, via Wahiawa	48.0
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Wahiawa	44.4
		Honolulu-Kaena Pt., via Waianae	43.7
MAUI		Honolulu-Wahiawa	23.0
		Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	5.0
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		
Wailuku-Lahaina, via Olowalu	20.9	KAUAI	
Kahului-Kihei	8.2	Lihue-Haena	38.2
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
		Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
		Poipu-Kalalau Lookout	36.8
Lanai City-Lanai Airport	3.1	Poipu-Princeville	40.7
Lanai City-Hulopoe	7.5		

1/ 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, 1997

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1997				
State total	4,164.21	88.58	3,877.70	197.93
Hawaii 1/	1,431.75	-	1,372.45	59.30
Maui 1/	617.10	-	560.40	56.70
Lanai	46.59	-	32.59	14.00
Molokai	129.26	-	117.26	12.00
Oahu	1,523.90	88.58	1,401.88	33.44
Kauai	415.61	-	393.12	22.49
Niihau	-	-	-	-

1/ Significant changes from previously published data are due to reinventories of roads to reflect extensive revisions in the functional classification of highway systems.

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, 1999

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	734	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	429	Airport Viaduct	14,890	Kipapa	156
Kauai	54	Hanamaulu	1,150	Wahiawa, Koloa	90

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

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

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1999

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:
1989 TO 1999**

[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
1989	876,848	855,057	695,397	54	4,203
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
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	Trailers and semi-trailers
1989	141,845	1,107	292	12,159	21,791
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

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:
1989 TO 1999**

[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
1989	855,057	599,379	103,724	51,455	100,499
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

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

Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1999

[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	929,474	609,395	131,562	60,313	128,204
Motor vehicles	906,935	597,610	126,039	57,882	125,404
Passenger vehicles 1/	725,142	489,508	96,659	41,410	97,565
Ambulances	59	34	12	-	13
Buses	3,028	2,428	238	20	342
Trucks 1/	161,067	93,604	26,584	15,611	25,268
Truck tractors	407	171	102	38	96
Truck cranes	224	118	20	14	72
Motorcycles, motorscooters 2/	17,008	11,747	2,424	789	2,048
Trailers and semi-trailers	22,539	11,785	5,523	2,431	2,800

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: 1999

[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	889,927	585,863	123,615	57,093	123,356
Taxable vehicles	825,316	524,575	122,378	56,315	122,048
Exempt vehicles	64,611	61,288	1,237	778	1,308
Federal government	359	340	15	1	3
State government	4,995	4,994	1	-	-
County government	6,460	4,292	601	508	1,059
Fire department	226	59	111	28	28
Police department	1,621	1,273	339	-	9
Consulates	67	67	-	-	-
Disabled veterans	144	86	11	42	5
Military non-resident	50,290	49,958	89	188	55
Farm	343	131	55	10	147
Horseless carriage	46	36	8	1	1
Electric vehicles	60	52	7	-	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 1998**

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

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

**Table 18.13-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY NAMEPLATE: 1996 TO 1998**

Nameplate	1996		1997		1998	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	68,375	...	71,777	...	74,408
Chevrolet/GEO	2	7,902	1	11,848	1	12,380
Ford	1	11,003	2	11,781	2	11,288
Toyota	3	7,355	3	7,634	3	8,176
Dodge	5	5,485	4	6,210	4	6,463
Nissan	4	7,160	5	5,204	5	5,745
Honda	6	4,708	6	4,823	6	4,531
All others	...	24,762	...	24,277	...	25,825

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:
1997 AND 1998**

Year and place of manufacture	Cars and trucks	Cars			Trucks		
		Total	Retail	Rental	Total	Retail	Rental
1997, total	71,777	63,952	34,858	29,094	7,825	7,629	196
Domestic	47,187	41,661	15,594	26,067	5,526	5,330	196
Imports	24,590	22,291	19,264	3,027	2,299	2,299	-
Percent imports	34.3	34.9	1/ 55.3	10.4	29.4	30.1	-
1998, total	74,408	66,523	32,937	33,586	7,885	7,736	149
Domestic	47,337	41,886	12,951	28,935	5,451	5,343	108
Imports	27,071	24,637	19,986	1/ 4,651	2,434	2,393	41
Percent imports	36.4	37.0	60.7	13.8	30.9	30.9	27.5

1/ Revised by the Hawaii State Department of Business, Economic Development & Tourism.

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

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1991 TO 1999**

[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

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, 1998 AND 1999**

Age	Both sexes		Male		Female	
	1998	1999	1998	1999	1998	1999
Total	746,329	752,693	394,537	397,203	351,792	355,490
15 to 19 years	37,223	37,729	20,190	20,507	17,033	17,222
20 to 24 years	59,915	61,871	31,808	32,874	28,107	28,997
25 to 34 years	148,857	144,852	77,012	75,087	71,845	69,765
35 to 44 years	171,970	169,232	88,285	86,660	83,685	82,572
45 to 54 years	150,040	153,371	78,845	80,312	71,195	73,059
55 to 64 years	84,753	89,741	45,781	48,284	38,972	41,457
65 to 74 years	61,239	61,527	32,772	32,749	28,467	28,778
75 to 84 years	28,796	30,440	17,344	17,974	11,452	12,466
85 years and over	3,536	3,930	2,500	2,756	1,036	1,174
Median age (years)	42	42	43	43	42	42

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

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1989 TO 1999, AND BY COUNTIES, 1999**

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1989	395,945	463	7,748.1	9,062
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
COUNTIES: 1999				
Honolulu	262,832	441	5,251.0	8,811
Hawaii	68,595	541	1,234.4	9,734
Kauai	26,387	446	610.3	10,305
Maui	59,560	477	1,119.5	8,958

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: 1997 TO 1999**

Site	1997	1998	1999
Pali Highway at tunnels	53,200	46,237	45,785
Likelike Highway at tunnels	50,837	32,515	31,937
H-1 Freeway at Manoa-Palolo Drainage Canal	115,262	114,395	115,205
H-1 Freeway at Kapalama Drainage Canal Bridge	222,253	222,631	222,016
Nimitz Highway at Kapalama Drainage Canal Bridge	83,851	71,277	75,545
Kalaniana'ole Highway east of Ainakoa Ave.	83,720	83,616	84,933

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

**Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU
URBANIZED AREA: 1996**

Subject	Number	Rank 1/
Freeway daily vehicle miles of travel (1,000)	5,685	46
Per lane-mile of freeway	13,375	25
Annual person hours of delay	17,225	48
Per 1,000 persons	24	48
Annual congestion cost:		
Per driver (dollars)	520	43
Per capita (dollars)	405	42
Delay and fuel cost (mil. dol.)	285	48

1/ Among 70 major Urbanized Areas.

Source: Texas Transportation Institute, as cited in *Statistical Abstract of the United States: 1999*, p. 644.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1988 TO 1998, AND BY COUNTIES, 1995 TO 1998

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1988	26,071	129	12,818	149
1989	26,891	127	12,835	147
1990	26,639	154	14,048	176
1991	21,824	119	12,792	135
1992	21,834	121	13,403	128
1993	21,464	121	13,879	133
1994	19,851	110	13,310	122
1995	16,581	118	13,088	127
1996	13,285	132	11,729	145
1997	12,396	117	11,158	131
1998	11,543	113	10,303	120
COUNTIES: 1995				
Honolulu	12,300	79	9,192	85
Hawaii	2,567	20	2,120	23
Kauai	481	3	477	3
Maui	1,233	16	1,299	16
COUNTIES: 1996				
Honolulu	9,421	73	7,909	76
Hawaii	2,377	28	2,138	35
Kauai	399	7	395	7
Maui	1,088	24	1,287	27
COUNTIES: 1997				
Honolulu	8,421	68	7,329	73
Hawaii	2,362	25	1,963	30
Kauai	444	11	421	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

Footnotes and source on next page.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1988 TO 1998, AND BY COUNTIES, 1995 TO 1998 -- Con.

NA Not available.

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.

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

**Table 18.21-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1997 TO 1999**

[As of December 31]

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	1997	1998	1999	1997	1998	1999
Hawaii	154	180	163	3,254	4,232	4,654
Maui	216	216	216	5,098	4,567	4,057
Lanai	-	-	-	93	101	74
Molokai	-	-	-	154	199	237
Oahu	3/ 1,544	1,365	1,213	99,365	92,372	91,635
Kauai	-	-	-	1,003	721	4/ 1,770

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/ Fiscal year ending on June 30.

4/ 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 1999**

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,683	7,071	166,088	5,089	30,654
Hawaii	185	961	40,021	1,035	5,346
Maui	275	1,589	33,033	812	4,117
Honolulu	1,114	4,021	83,996	2,810	19,212
Kauai	109	500	9,038	432	1,979

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, from Hawaii State Department of Commerce and Consumer Affairs, Public Utilities Commission.

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: 1997 TO 1999**

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

Fare category	1997	1998	1999
All passengers	74,407,852	71,215,529	69,660,916
Adults, full fare	42,191,326	40,198,684	39,707,903
Students	12,657,287	12,175,435	11,627,724
School subsidy	419,266	475,208	466,379
Stadium express	6,792	5,832	17,961
Senior citizens and disabled	14,863,996	14,350,549	14,052,903
Free transfers	3,712,865	3,521,051	3,335,456
Visitor pass	532,294	488,770	452,590
Average bus speed (m.p.h.)	15.0	15.0	14.9

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 1999

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	School	Adult	School
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 3/	1.00	.50	25.00	12.50

1/ In addition, there have been special fares for children, 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.

**Table 18.27-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1987 TO 1999**

[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)	1993	6.0	388,484	(NA)	(NA)
1988	6.0	285,139	(NA)	(NA)	1994	6.0	390,862	5.0	1/ 12,821
1989	6.0	296,391	(NA)	(NA)	1995	6.0	447,211	6.5	16,704
1990	6.0	308,910	(NA)	(NA)	1996	6.0	418,099	6.5	19,678
1991	6.0	316,079	(NA)	(NA)	1997	6.0	369,327	6.5	20,850
1992	6.0	385,261	(NA)	(NA)	1998	6.0	(NA)	6.5	19,763
					1999	6.0	281,161	7.0	14,733

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 International Airport	Hilo International 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: 1989 TO 1999**

Year 1/	Total	Westbound and southbound	Eastbound and northbound
1989	9,651,494	6,397,104	3,254,390
1990	10,345,753	6,500,170	3,845,583
1991	10,503,204	6,403,299	4,099,905
1992	9,955,705	5,603,600	4,352,105
1993	9,190,970	5,129,637	4,061,333
1994	9,002,630	5,191,824	3,810,806
1995	9,055,953	5,214,698	3,841,255
1996	9,297,363	5,408,371	3,888,992
1997	9,345,041	5,357,752	3,987,289
1998	8,789,685	5,322,048	3,467,637
1999	8,704,503	5,559,183	3,145,320

1/ 1989-94: Revised, Hawaii Visitors and Convention Bureau, records. 1995-97: Special report prepared for the Hawaii Visitors and Convention Bureau by Reed Travel Group.

Source: Hawaii Visitors and Convention Bureau. Hawaii State Department of Business, Economic Development & Tourism, records.

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: 1989 TO 1999**

[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: 1998

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,728,768	7,576,988	184,411	155,598	28,451	53,519
Honolulu	2/ 6,694,626	6,374,715	171,892	148,778	27,737	53,493
Hilo	-	-	-	-	-	-
Kahului	837,015	910,058	6,804	5,179	642	25
Kona 3/	159,291	251,899	5,715	1,620	70	-
Lihue	37,836	40,316	-	21	2	1
INTERISLAND						
Total	10,075,448	10,075,448	70,017	70,017	20,274	20,274
Honolulu	4,429,574	4,670,632	41,674	25,137	14,950	5,282
Hilo	770,658	788,835	11,285	9,357	1,092	2,364
Upolu	3	-	-	-	-	-
Waimea-Kohala	805	796	5	11	201	440
Kona 3/	1,184,128	1,057,637	5,323	9,427	698	2,226
Kahului	2,111,692	1,981,652	5,587	14,517	2,199	7,643
Hana	4,877	4,605	4	-	-	-
Kapalua	72,573	72,355	237	489	-	4
Molokai	124,917	127,675	319	888	54	121
Kalaupapa	4,546	4,408	8	153	1	4
Lanai	88,035	88,584	136	717	38	74
Lihue	1,283,603	1,278,245	5,439	9,321	1,041	2,116
Princeville 4/	32	24	-	-	-	-
Dillingham (USA)	4	-	-	-	-	-

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

2/ Excludes overseas passengers in transit (466,807, passing through Honolulu International Airport).

3/ Formerly Keahole Airport.

4/ Privately owned.

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

Table 18.39-- 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 18.40-- STATEWIDE 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 18.41-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999**

[Data for the 588 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	12	12	-
Tampa	7	7	-
Detroit	7	7	-
Atlanta	14	14	-
Chicago	16	16	-
St. Louis	7	7	-
Minneapolis	14	14	-
Houston	7	7	-
Dallas/Fort Worth	29	22	7
Denver	14	-	14
Salt Lake City	7	7	-
Phoenix	2	2	-
Las Vegas	15	15	-
Los Angeles	117	81	36
Seattle	26	19	7
San Francisco	69	55	14
Portland	7	7	-
Vancouver	17	17	-
Anchorage	2	2	-
Guam	12	12	-
Sapporo	7	7	-
Sendai	6	6	-
Tokyo, Narita	60	60	-
Tokyo, Haneda	5	5	-
Niigata	1	1	-
Nagoya	7	7	-
Osaka, Kansai	28	28	-
Hiroshima	2	2	-
Fukuoka	7	7	-
Seoul	7	7	-
Taipei	12	12	-

Continued on next page.

**Table 18.41-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999 -- Con.**

[Data for the 588 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	3	3	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	4	2	2
Auckland	13	13	-
Sydney	7	7	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked* ^[tm] July 1999. Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

Table 18.42-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND CITIES, BY UNITED AIRLINES: 1993 TO 1998

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

Between Honolulu and--	1993	1994	1995	1996	1997	1998 1/
Los Angeles	586	586	716	530	521	521
San Francisco	566	566	596	530	521	521
Chicago	886	886	916	-	925	924

1/ As of July 27.

Source: United Airlines, records; International Trade Service, records.

Table 18.43-- 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 18.44-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: JULY 2-8, 1998

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

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	986	1/ 1,229	986
Coach (unrestricted)	522	1/ 522	522
United Airlines, round-trip:			
First class	1,975	2,458	2,626
Coach (unrestricted)	878	1,044	1,020
Major carriers, lowest round-trip: 2/			
United Airlines	497	494	447
Lowest carrier	497	494	447
Highest carrier	497	494	680

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; International Trade Service, records.

Table 18.45-- STATE COMMERCIAL HARBORS: 1998

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	{	3,300	}	29,308	1,577	8,935
Kapalama				3,400				
Barbers Point	42	38	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-- 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	{	3,300	}	29,308	1,673	8,935
Kapalama				3,400				
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. All other figures in this table are identical in 1996 and 1997.
 Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.47-- HARBOR DEPTHS: 1998

[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
Nawiliwili	41	34	40	35

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1998 Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcsc.htm>

**Table 18.48-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: DECEMBER 31, 1999**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,794	1,625	337	215	536	219
Hawaii	277	262	78	75	78	-
Maui	135	127	111	110	124	113
Oahu	1,266	1,134	134	25	222	103
Kauai	116	102	14	5	112	3

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

**Table 18.49-- 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 18.50-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1999**

Subject	Number	Subject	Number
Certificates outstanding	15,481	Type of vessel:	
Length:		Cabin motorboat	2,629
Under 16 feet	5,952	Open motorboat	5,802
16 to less than 26 feet	7,769	Runabout	2,822
26 to less than 40 feet	1,576	Sail/inboard } Sail/outboard }	1,194
40 to 65 feet	174	Sail only	645
Over 65 feet	10	Motor vessel over 65 feet	4
Hull material:		Thrill craft under 16 feet	1,163
Wood	732	Uses:	
Fiberglass	13,057	Pleasure	13,900
Metal	556	Commercial fishing	449
Inflatable	913	Charter fishing	17
Other	223	Commercial passenger	266
Propulsion:		Other commercial	123
Inboard	1,725	Livery	316
Outboard	8,090	Dealer or manufacturer	43
Inboard/outboard	2,310	Youth group	76
Sail/inboard	630	Government	283
Sail/outboard	573	Other	7
Sail only	612	Island where vessel is kept:	
Manual	44	Hawaii	2,480
Waterjet	1,221	Kauai	1,757
Other	-	Lanai	78
Type of storage:		Maui	1,632
Moored on water	4,087	Molokai	205
Moored on land	11,394	Oahu	9,329

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

**Table 18.51-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN
HAWAII: 1993 TO 1999**

Category	1993	1994	1995	1996	1997	1998	1999
Documented 1/ Numbered 2/	(NA) 13,832	(NA) 13,839	(NA) 14,470	(NA) 15,177	(NA) 15,138	(NA) 15,138	(NA) 15,481

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 18.52-- BOATING ACCIDENTS: 1989 TO 1999

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
1989	40	1	1	28	48	216.8
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)

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 18.53-- VESSEL ARRIVALS, BY DRAFT: 1997 AND 1998

[Excludes domestic fishing craft]

Harbor	1997			1998		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	937	871	66	934	875	59
Kawaihae	776	759	17	650	647	3
Kahului	1,259	1,061	198	1,351	1,152	199
Kaunakakai	1,125	1/ 1,125	-	862	1/ 826	-
Kalaupapa	1	2/ 1	-	6	2/ 6	-
Honolulu	8,994	7,077	1,917	8,843	6,921	1,922
Barbers Point	1,942	1,803	139	1,740	1,622	118
Nawiliwili	631	610	21	645	603	42
Port Allen	640	3/ 640	-	777	4/ 777	-

1/ 21 feet and less.

2/ 14 feet and less.

3/ 16 feet and less.

4/ 19 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/wsc.htm>

Table 18.54-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1984 TO 1999

[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

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

**Table 18.55-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1993 TO 1999**

[Fiscal years ended June 30]

Type of passenger	1994	1995	1996	1997	1998	1999
Overseas:						
In	14,502	17,517	14,851	18,262	25,570	45,494
Out	14,502	17,957	16,128	17,527	28,932	44,389
Interisland:						
In	68,229	68,699	44,982	46,825	43,522	47,950
Out	68,229	68,849	45,159	40,558	43,754	47,782

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

**Table 18.56-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1988 TO 1998**

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

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1988	1,456	655	2,157	10,655	7,511	876
1989	1,569	732	2,279	10,360	7,374	1,038
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

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

Table 18.57-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1997

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,489	980	2,895	12,704	8,162	1,091
Foreign						
Imports	79	-	25	2,828	4,242	-
Exports	-	-	-	147	873	-
Canadian						
Imports	-	-	4	63	18	-
Exports	-	-	-	-	-	-
Domestic, total	1,410	980	2,866	9,666	3,030	1,090
Coastwise						
Receipts	1,029	636	1,768	5,232	2,298	550
Shipments	381	344	1,098	4,315	721	540
Internal & intraport	-	-	-	119	11	-

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1997 Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcsc.htm>

Table 18.58-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1998

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,630	886	2,851	13,723	6,658	938
Foreign						
Imports	103	-	3	3,344	2,760	2
Exports	8	-	-	477	319	-
Canadian						
Imports	-	-	-	130	-	-
Exports	-	-	-	-	-	-
Domestic, total	1,519	886	2,849	9,772	3,579	936
Coastwise						
Receipts	1,127	548	1,897	5,275	2,679	637
Shipments	392	338	952	4,389	893	298
Internal & intraport	-	-	-	107	7	-

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1998 Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcsc.htm>

**Table 18.59-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1997**

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,489	1,108	381
Petroleum and petroleum products	326	326	-
Fabricated non-iron metal products	579	309	271
Food and farm products	142	112	30
Manufactured equipment, machinery and products	254	185	69
Kawaihae	980	636	344
Fabricated non-iron metal products	623	378	245
Food and farm products	76	59	17
Manufactured equipment, machinery and products	208	134	74
Kahului	2,895	1,797	1,098
Petroleum and petroleum products	465	465	-
Fabricated non-iron metal products	1,219	658	561
Food and farm products	510	148	362
Manufactured equipment, machinery and products	439	275	163
Honolulu	12,704	8,123	4,581
Petroleum and petroleum products	3,512	2,943	569
Lumber	239	150	89
Fabricated non-iron metal products	3,230	1,550	1,680
Food and farm products	2,130	1,406	724
Manufactured equipment, machinery and products	2,517	1,450	1,067
Vehicles and parts	900	439	460
Barbers Point	8,162	6,558	1,605
Petroleum and petroleum products	7,132	5,678	1,455
Cement and concrete	314	277	36
Nawiliwili	1,091	550	540
Fabricated non-iron metal products	578	274	304
Food and farm products	229	74	155
Manufactured equipment, machinery and products	224	146	78
Kaunakakai	231	(NA)	(NA)
Port Allen	2	(NA)	(NA)
Pearl Harbor	292	(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, 1997 *Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcsc.htm>

**Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1998**

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,630	1,230	400
Petroleum and petroleum products	355	352	2
Fabricated non-iron metal products	636	369	267
Food and farm products	151	109	43
Manufactured equipment, machinery and products	262	188	74
Kawaihae	886	548	338
Fabricated non-iron metal products	513	268	246
Food and farm products	85	72	13
Manufactured equipment, machinery and products	210	142	68
Kahului	2,851	1,900	952
Petroleum and petroleum products	520	514	6
Fabricated non-iron metal products	1,304	723	581
Food and farm products	364	170	194
Manufactured equipment, machinery and products	445	285	160
Honolulu	13,723	8,749	4,973
Petroleum and petroleum products	3,976	3,245	731
Lumber	266	159	107
Fabricated non-iron metal products	3,166	1,433	1,733
Food and farm products	2,122	1,380	742
Manufactured equipment, machinery and products	2,742	1,629	1,113
Vehicles and parts	939	448	490
Barbers Point	6,558	5,439	1,219
Petroleum and petroleum products	6,078	4,969	1,109
Cement and concrete	188	143	45
Nawiliwili	938	639	298
Fabricated non-iron metal products	501	312	189
Food and farm products	114	81	33
Manufactured equipment, machinery and products	230	156	73
Kaunakakai	203	(NA)	(NA)
Port Allen	3	(NA)	(NA)
Pearl Harbor	377	(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, 1998 *Waterborne Commerce of the United States*, Part 4 at <http://www.wrsc.usace.army.mil/ndc/wcsc.htm>

**Table 18.61-- TRANSPORTATION AND WAREHOUSING SUMMARY STATISTICS
FOR THE STATE: 1997**

NAICS code	Kind of business	Establishments (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 18.62-- 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.