

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.

Motor vehicle registration in Hawaii increased from 611,000 in 1979 to 855,000 in 1989. Vehicle miles rose during the same period from 4.8 billion to 7.7 billion. Hawaii residents purchased 71,000 new passenger cars and 15,000 trucks in 1989. By the end of that year, 657,000 licensed drivers had access to 4,087 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 69 million in 1979 to 75 million in 1989. Registered bicycles numbered 93,000 in 1989.

Almost all scheduled interisland travel is by air. In 1989, airlines and air taxis reported 9.6 million interisland passengers, some 27 percent more than in 1979, and carried 73,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 15 civilian heliports, 3,600 active pilots, and about 600 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1989, 7,023,000 overseas passengers arrived by air, a 10-year growth of 65 percent. Overseas air cargo received that year exceeded 150,000 tons.

Undocumented State-registered vessels as of December 31, 1989 numbered 13,500, compared with 8,000 in 1970. Median length was 17.4 feet, and four-fifths were stored on land. There were 1,700 documented vessels in the State in 1990, triple the 1970 total. Overseas vessels brought 10,000 passengers into the State in 1990. Receipts of cargo in 1988 included 11.0 million tons in overseas cargo and 5.3 million tons in interisland cargo.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, 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. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1990, Sections 21 and 22.

Table 510.-- HIGHWAY DISTANCES: 1990

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	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	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd. ..	84.3	OAHU <u>1/</u>	
Hilo-Kailua, via Hamakua	91.2	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waikiki	3.2
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Waimanalo, via Nuuanu ..	13.3
Waimea-Hawi	21.4	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Kawaihae	11.5	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Waianae .	44.3
		Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard ..	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali ..	81.1
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu .	20.9	KAUAI	
Kahului-Kihei	7.9	Lihue-Haena,	38.0
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
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	Poipu-Princeville	40.7

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

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

Table 511.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1923 TO 1989

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

Category	1923	1938	1958	1973	1989
Total mileage ...	1,479	2,040	2,967	3,666	4,087
Paved	565	1,367	2,393	3,172	3,869
Unpaved	914	673	575	494	218

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 429; present report, table 512.

Table 512.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,
BY ISLANDS: DECEMBER 31, 1989

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	4,087.48	96.55	3,772.58	218.35
Hawaii ^{1/}	1,449.95	7.04	1,363.79	79.72
Maui	589.23	3.21	529.32	56.70
Lanai	45.83	-	31.83	14.00
Molokai	129.22	-	117.22	12.00
Oahu	1,477.89	86.30	1,358.15	33.44
Kauai	395.36	-	372.87	22.49
Niihau	-	-	-	-

^{1/} Data exclude Chain of Craters Road, closed due to volcanic eruption.

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

Table 513.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1989

Island	Number of bridges <u>1/</u>	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	697	Airport Viaduct .	14,890	Nanue	208
Hawaii	129	Hakalau	775	Nanue	208
Maui	93	Kalialinui	324	Uaoa	79
Lanai	-	None .....	...	None .....	...
Molokai	19	Manawainui	325	Manawainui	50
Oahu	404	Airport Viaduct .	14,890	Kipapa	156
Kauai	52	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 514.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1989

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
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

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

Table 515.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES,
BY ISLANDS: DECEMBER 31, 1985

Type of facility	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	580	38	18	-	-	516	8
Metered on-street parking spaces	3,630	816	-	-	-	2,814	-
Metered off-street parking spaces <u>1/</u>	3,226	277	68	-	18	2,797	66

1/ Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: Compiled by Hawaii State Department of Planning and Economic Development from Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 516.-- VEHICLE DENSITIES: 1923 TO 1989

Measure	1923	1938	1958	1973	1989
Motor vehicles per --					
1,000 persons <u>1/</u>	65.6	151.2	330.9	529.0	677.0
Mile of street or highway	13.3	30.4	68.2	130.0	209.2
Persons per <u>1/</u> --					
Motor vehicle	15.2	6.6	3.0	1.9	1.5
Mile of street or highway	202.5	201.0	206.2	245.9	309.0

1/ Based on resident population through 1938 and de facto population thereafter.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), tables 1.4 and 17.2; present report, tables 3, 511, and 517.

Table 517.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1979 TO 1989

[Taxable and non-taxable, including military non-resident exempt vehicles]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles <u>1/</u>	Ambulances, hearses, patrol wagons	Buses
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863
1983	(NA)	702,854	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034
1985	767,892	749,034	625,823	66	4,189
1986	790,855	771,575	642,636	60	4,158
1987	818,430	798,317	661,674	54	4,198
1988	838,327	817,609	670,877	52	4,215
1989	876,848	855,057	695,397	54	4,203
Motor vehicles -- continued					
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters <u>2/</u>	Trailers and semi-trailers
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287
1985	106,673	1,334	342	10,607	18,858
1986	112,053	1,290	323	11,055	19,280
1987	119,338	1,220	318	11,515	20,113
1988	129,452	1,176	293	11,544	20,718
1989	141,845	1,107	292	12,159	21,791

Footnotes and source on next page.

Table 517.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1979 TO 1989 -- Con.

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

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

Source: City and County of Honolulu, Department of Data Systems, records; present report, table 502.

Table 518.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1979 TO 1989

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983	702,854	515,002	80,090	35,365	72,397
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593
1986	771,575	556,935	89,918	40,585	84,137
1987	798,317	571,738	93,095	43,925	89,559
1988	817,609	579,998	96,360	47,235	94,016
1989	855,057	599,379	103,724	51,455	100,499
1990	885,755	611,419	109,910	55,537	108,389

Source: City and County of Honolulu, Department of Data Systems, records; present report, table 502.

Table 519.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:
1989 AND 1983

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1989	907,950				
All vehicles	876,848	611,824	108,372	53,677	102,975
Motor vehicles	855,057	599,379	103,724	51,455	100,499
Passenger vehicles 1/	713,404	489,925	83,484	40,985	81,003
Ambulances 2/	54	36	11	1	6
Buses	4,203	3,386	262	103	452
Trucks 1/	151,857	95,867	18,270	9,687	18,021
Truck tractors 3/	1,107	515	259	123	210
Truck cranes 4/	292	103	56	41	92
Motorcycles 5/	12,159	9,547	1,382	515	715
Trailers and semi-trailers ..	21,791	12,445	4,648	2,222	2,476
1983					
Motor vehicles	702,854	515,002	80,090	35,365	72,397
U-drive	30,442	18,580	2,891	1,478	7,493
All others	672,412	496,422	77,199	33,887	64,904

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

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: 1989 from City and County of Honolulu, Department of Data Systems, records; 1983 from Applied Analysis, Inc., Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii (August 1987), and records.

Table 520.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	294,052	29,237	230,214	71	12,020	22,510
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 521.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: JANUARY 1990

Empty weight	Passenger vehicles	Buses	Trucks ^{1/}	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles	637,836	2,733	44,408	655	7,262	13,934
Under 2,000 lb.	38,151	-	21	-	7,259	10,445
2,000 to 2,999 lb.	348,958	32	9,010	8	2	581
3,000 to 3,999 lb.	207,600	61	12,945	12	1	196
4,000 to 4,999 lb.	39,326	709	10,565	15	-	194
5,000 to 5,999 lb.	3,007	846	2,764	10	-	200
6,000 to 9,999 lb.	518	461	4,158	85	-	848
10,000 lb. and over	276	624	4,945	525	1	1,470
Median weight (lb.)	2,805	5,667	4,022	14,558	<2,000	<2,000

^{1/} Vans and other trucks under 6,500 lb. in personal use are classified as passenger vehicles.

Source: Hawaii State Department of Transportation, Highways Division, Staff Services Office, Budget, Methods and Systems Staff; printouts from Honolulu Department of Data Systems. Medians calculated by Hawaii State Department of Business and Economic Development.

Table 522.-- TRUCK CHARACTERISTICS: 1977, 1982, AND 1987

[Percent]

Vehicular and operational characteristics	1977	1982	1987 ^{1/}
Major use: Personal transportation	50.0	54.3	60.5
Body type: Pickup, panel, or mini-van	85.1	89.1	91.2
Vehicle size: Light	89.0	92.9	94.6
Annual miles: Less than 10,000	54.1	59.7	57.0
Year model: Over 4 years old	68.1	75.8	62.1
Vehicle acquisition: Purchased new	54.6	47.3	49.6
Fleet size: 1 truck	64.0	72.3	64.4
Truck type: Single-unit, 2 axles	95.7	96.6	96.4
Range of operation: Local	87.3	78.2	80.2
Fuel type: Diesel and LPG	4.6	3.7	5.4

^{1/} There were 160,800 trucks in Hawaii in 1987, which traveled 1,550.5 million truck miles, or 9,600 per truck.

Source: U.S. Bureau of the Census, 1987 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC87-T-12 (March 1990), tables 1 and 2.

Table 523.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1984 TO 1989

Year	Total	Passenger cars	Motor trucks
1984	63,625	48,791	14,834
1985	67,875	51,330	16,545
1986	68,060	49,680	18,380
1987	73,138	51,446	21,692
1988	78,454	56,278	22,176
1989	84,485	59,893	24,592

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVA Motor Vehicle Facts and Figures (annual).

Table 524.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1985 TO 1989

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
1985	68,676	50,058	8,095	7,660	2,863
1986	68,379	48,497	8,535	7,896	3,451
1987	71,987	49,028	10,865	7,436	4,658
1988	74,962	49,401	11,413	8,410	5,738
1989	85,425	52,855	13,733	11,362	7,475
Passenger cars	70,580	43,509	11,563	9,447	6,061
Trucks	14,845	9,346	2,170	1,915	1,414

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

Table 525.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE: 1989

Make	Total		Passenger cars		Light trucks	
	Rank	Number	Rank	Number	Rank	Number
All makes .....	...	85,425	...	70,580	...	14,845
Ford	1	14,778	1	10,971	1	3,807
Chevrolet	2	10,451	2	8,110	2	2,341
Toyota	3	8,449	4	6,855	4	1,594
Nissan	4	8,359	3	7,107	6	1,252
Honda	5	6,829	5	6,826	...	3
Dodge	6	4,801	7	3,085	3	1,716
Mazda	7	3,993	9	2,706	5	1,287
Pontiac	8	3,582	6	3,580	...	2
Buick	9	2,820	8	2,818	...	2
Mercury	10	2,614	10	2,611	...	3
All others .....	...	18,749	...	15,911	...	2,838

Source: Hawaii Automobile Dealers Association, 1989 HADA Yearbook, p. 6.

Table 526.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1988 AND 1989

Year	Total	Domestics <u>1/</u>	Imported <u>1/</u>	
			Number	Percent
1988	75,197	38,770	36,427	48.4
1989	85,425	50,923	34,502	40.4

1/ Japanese cars sold in the U.S. with U.S. nameplates are classified as domestic. Cars assembled in the U.S. with Japanese nameplates are classified as imports.

Source: Hawaii Automobile Dealers' Association, 1990 HADA Yearbook, p. 6.

Table 527.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1984 TO 1989

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1984	582,218	434,053	65,778	28,801	53,586
1985	593,952	441,278	68,177	29,188	55,309
1986	612,101	453,220	70,493	30,374	58,014
1987	628,027	463,522	72,142	31,831	60,532
1988	634,880	465,331	74,545	33,007	61,997
1989	657,156	478,078	78,448	34,963	65,667

Source: Tabulations by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 528.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1989

Age	Both sexes	Male	Female
Total	657,156	355,586	301,570
15 to 19 years	38,507	21,640	16,867
20 to 24 years	62,012	33,353	28,659
25 to 34 years	165,598	86,464	79,134
35 to 44 years	156,550	82,123	74,427
45 to 54 years	93,497	50,027	43,470
55 to 64 years	73,679	39,649	34,030
65 to 74 years	50,411	30,407	20,004
75 to 84 years	15,674	10,971	4,703
85 years and over	1,228	952	276
Median age (years)	39.0	39.4	38.5

Source: Tabulation by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 529.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1987 TO 1989

Site	1987	1988	1989
Pali Highway at tunnels.....	50,611	50,453	51,503
Likeline Highway at tunnels	48,386	48,358	57,025
H-1 Freeway at Manoa-Palolo Drainage Canal 1/	(NA)	127,367	128,273
H-1 Freeway at Kapalama Drainage Canal Bridge	(NA)	191,286	193,254
Nimitz Highway at Kapalama Drainage Canal Bridge	63,040	69,040	79,870
Kalaniana'ole Highway east of Ainakoa Ave.	77,413	77,928	79,275

NA Not available.

1/ Includes Kapiolani on- and off-ramps.

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

Table 530.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1979 TO 1989

Year and county	Highway fuel consumption <u>1/</u>		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle <u>2/</u>	Total (millions)	Per vehicle <u>2/</u>
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
1986	357,716	464	6,970.7	9,034
1987	367,984	461	7,217.2	9,041
1988	378,988	464	7,400.8	9,052
1989	395,945	463	7,748.1	9,062
COUNTIES: 1989				
Honolulu	269,406	452	5,271.5	8,842
Hawaii	58,150	553	1,026.7	9,770
Kauai	22,745	430	546.3	10,326
Maui	45,644	452	903.6	8,956

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

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 531.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1978 TO 1988, AND BY COUNTIES, 1988

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,852	108	10,941	117
1987	23,618	126	11,987	138
1988	26,039	129	12,801	149
COUNTIES: 1988				
Honolulu	20,465	71	8,903	84
Hawaii	2,743	32	1,887	38
Kauai	1,062	11	706	11
Maui	1,769	15	1,305	16

1/ Traffic accidents with damage of \$300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 532.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1983 TO 1988

[Average speeds, in miles per hour. Years ended September 30]

Year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arterials	Major collectors
1983	54.0	56.7	56.5	51.6	51.8
1984	54.7	56.8	56.8	52.4	53.1
1985	54.8	56.9	58.0	52.3	53.0
1986	55.1	58.4	(NA)	51.4	52.6
1987	55.0	58.4	(NA)	51.3	52.1
1988	<u>1/</u> 56.2	59.5	(NA)	52.0	52.3

NA Not available.

1/ The corresponding U.S. average was 56.3. Hawaii ranked 29th among the 48 States reporting average speeds.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 533.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1990

County	Passenger carriers <u>1/</u>			Property carriers <u>2/</u>	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,016	5,103	133,776	2,783	16,782
Hawaii	85	588	21,642	530	2,972
Maui	149	862	20,352	391	1,966
Honolulu	722	3,261	80,146	1,672	10,792
Kauai	60	392	11,636	190	1,052

1/ Includes mostly tour bus operators; excludes public transit (such as MTL, Inc.), 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 534.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1988 AND 1989

[As of December 31]

Island	Taxicabs		Bicycles and mopeds	
	1988	1989	1988	1989
State total	<u>1/</u> 1,765	<u>1/</u> 1,775	113,311	92,525
Hawaii	95	96	3,780	3,651
Maui	123	156	2,472	2,045
Lanai	1	2	180	94
Molokai	-	6	258	180
Oahu	1,546	1,515	103,529	81,930
Kauai	(NA)	(NA)	3,092	4,625

NA Not available.

1/ Excludes Kauai.

Source: Compiled by the Hawaii State Department of Business and Economic Development from the County Departments of Finance.

Table 535.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1980 TO 1989

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers	Calendar year	Miles of track	Passengers
1980	6	111,699	1985	6	199,759
1981	6	128,178	1986	6	215,735
1982	6	155,059	1987	6	244,555
1983	6	171,892	1988	6	285,139
1984	6	197,876	1989	6	296,391

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

Table 536.-- PUBLIC TRANSIT, FOR OAHU: 1979 TO 1989

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

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Total passengers <u>2/</u>	Revenues <u>3/</u> (dollars)
1979	350	15,915,000	68,765,000	9,931,000
1980	400	16,579,392	71,601,744	17,388,760
1981	400	16,748,338	73,546,802	17,991,735
1982	400	16,767,816	74,109,528	18,269,144
1983	395	16,654,568	75,051,618	18,157,876
1984	440	16,774,564	76,260,187	18,819,782
1985	440	16,938,692	74,816,485	18,952,566
1986	459	17,065,875	74,410,104	18,802,330
1987	460	16,733,510	74,066,369	18,659,459
1988	470	17,124,317	74,467,760	18,824,046
1989	475	17,525,608	74,964,453	18,843,083

1/ Estimated number of revenue vehicle miles.

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

3/ Fiscal year ended June 30, 1979; calendar years, 1980 forward.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 537.-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, FOR OAHU:
1987 TO 1989

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

Fare category	1987	1988	1989
All passengers	74,066,369	74,467,760	74,964,453
Adults, full fare	42,489,644	43,182,518	43,699,952
Students	11,820,592	11,533,291	11,558,225
School subsidy	352,692	311,027	242,201
Stadium express	10,152	10,309	11,249
Senior citizens and handicapped	14,103,035	14,197,265	14,319,192
Chartered service	10,674	4,967	-
Free transfers	5,279,580	5,228,383	5,133,592

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 538.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1990

[In dollars]

Effective date	Cash fares <u>1/</u>		Monthly passes	
	Adult	School	Adult	School
March 1, 1971 .....	.25	.15	...	...
March 2, 1971 .....	.25	.10	...	...
June 9, 1972 <u>2/</u> .....	.25, .50	.10, .25	...	...
March 15, 1974 .....	.25	.10	...	...
November 1, 1979 .....	.50	.25	15.00	7.50
June 18, 1984 <u>3/</u> .....	.60	.25	15.00	7.50

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

2/ Zone fares initiated.

3/ Current fares as of September 1, 1990.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 539.-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS (SIC 751)
ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987

Subject	State total ^{1/}		Counties (SIC 751)			
	SIC 751	SIC 7514	Hono- lulu	Hawaii	Kauai	Maui
No. of establishments ..	101	77	48	19	11	23
Receipts (mil. dol.) ...	243.3	231.1	134.5	23.5	23.9	61.4

^{1/} Most of the receipts for SIC 751 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Hawaii, SC87-A-12 (July 1989), tables 1a, 4a, 7, and 8a.

Table 540.-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY
SIZE OF PASSENGER CAR, FOR OAHU: 1989 AND 1990

[Average rates for nonresidents, including collision damage waiver insurance, reported by Avis, Hertz, National, and Alamo]

Date	Sub-compact	Compact	Mid-size	Full-size
October 18, 1989	37.93	38.92	43.68	48.94
August 13, 1990	39.97	46.46	49.71	57.21

Source: Information provided by listed companies.

Table 541.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1989

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State		Military	Semi-private	State: commercial	Semi-private
	Com- mercial	General aviation				
State total	7	7	6	2	1	14
Hawaii	2	2	1	-	-	8
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	1
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private helicopters (not available).

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

Table 542.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1979 TO 1989

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport <u>1/</u>	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
1979	412,739	51,703	92,235	127,477	71,033	72,024
1980	375,408	49,969	66,944	111,573	62,829	67,761
1981	339,359	53,274	57,488	102,760	59,404	61,876
1982	308,728	47,964	51,889	112,428	65,305	69,142
1983	333,038	54,470	66,581	124,288	71,739	54,882
1984	343,818	62,543	83,320	142,311	100,992	53,513
1985	357,511	61,225	93,879	157,231	131,755	56,048
1986	368,049	61,514	81,467	174,560	143,905	52,268
1987	385,275	80,123	67,497	165,920	134,495	50,829
1988	377,919	85,267	56,584	173,053	122,268	50,456
1989	403,635	93,202	55,674	177,803	116,742	47,208

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

Source follows next table.

Table 543.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS
AND ENPLANED PASSENGERS: 1987 AND 1988

Subject	Rank <u>1/</u>		Number	
	1987	1988	1987	1988
Total aircraft operations	16	23	385,260	376,893
Air carrier operations	17	23	216,044	184,856
Total enplaned passengers <u>2/</u> ...	17	15	7,773,253	8,396,313

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: FAA Statistical Handbook of Aviation for 1987 (pp. 31 and 97) and 1988 (pp. 24 and 82).

Table 544.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1989

[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	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	403,635	194,347	64,348	100,287	44,653
Hilo International	93,202	17,262	26,564	32,456	16,920
Kahului	177,803	56,981	63,444	49,823	7,555
Lihue	116,742	32,433	70,526	7,599	6,184
Keahole	55,674	24,170	12,868	12,881	5,755
Molokai	47,208	14	35,743	9,295	2,156

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

Table 545.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1987 TO 1990

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

Service	1987	1988	1989	1990
All carriers	33	34	44	43
Transpacific only	25	25	27	26
Domestic	12	10	12	11
Foreign	13	15	15	15
Transpacific and interisland	2	2	5	4
Interisland only	6	7	12	13
Passenger carriers	6	5	8	9
Cargo and mail only	-	2	4	4

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

Table 546.-- CIVIL FLYING: 1985 TO 1988

Item	1985	1986	1987	1988
Aircraft facilities, Dec. 31	50	51	54	54
Airports	36	34	35	35
Heliports	14	17	19	19
Public aircraft facilities, Dec. 31 ...	16	18	18	18
Paved and lighted facilities, Dec. 31 .	12	12	12	12
Large aircraft in operation, Dec.	49	54	57	51
Aloha Airlines	8	11	10	12
Hawaiian Airlines	21	24	29	31
Mid Pacific Airlines	20	19	18	8
General aviation: <u>1/</u>				
Active civil aircraft, Dec.	348	366	486	600
Standard error	109	118	140	153
Hours flown (1,000)	137	182	163	426
Standard error (1,000)	56	81	75	133
Active personnel, Dec. 31:				
Pilots, except instructors	3,256	3,327	3,373	3,598
Flight instructors	267	246	271	293
Nonpilot airmen <u>2/</u>	2,498	2,609	2,778	3,008

1/ Aircraft based in Hawaii. Data based on samples with specified standard errors.

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

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

Table 547.-- OVERSEAS AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1979 TO 1989

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

Year	Overseas passengers <u>1/</u>			Inter- island passenger arrivals
	Arrivals	Departures	Through	
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687
1984 ..	5,263,213	5,261,373	727,947	7,632,239
1985 ..	5,317,862	5,293,528	858,501	7,878,598
1986 ..	6,041,078	6,083,508	841,241	8,340,048
1987 ..	6,265,211	6,317,747	1,109,850	8,802,594
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

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

Source: Hawaii State Department of Trans-
portation, Airports Division, records.

Table 548.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND,
BY AIRPORT: 1989

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	7,234,653	7,022,986	156,701	150,837	14,129	16,771
Honolulu	6,552,927	6,284,443	148,177	140,302	14,103	16,766
Hilo	-	-	-	-	-	-
Kahului	524,228	557,183	4,356	7,486	26	5
Keahole	101,238	112,851	3,906	2,289	-	-
Lihue	56,260	68,509	262	760	-	-
INTERISLAND						
Total	9,634,077	9,634,077	73,480	73,480	10,353	10,353
Honolulu	4,302,111	4,309,905	48,210	22,443	6,161	4,006
Hilo	651,931	673,741	16,354	10,772	1,147	1,508
Upolu	-	4	2	4	-	-
Waimea-Kohala ...	9,590	9,047	244	93	-	-
Keahole	955,391	928,451	2,676	7,942	787	1,221
Kahului	1,832,837	1,831,267	3,850	18,866	1,446	2,374
Hana	13,042	12,254	-	8	-	-
Molokai	168,112	170,868	314	452	58	18
Kalaupapa	8,002	7,249	2	67	-	-
Lanai	51,852	52,708	28	681	4	-
Lihue	1,382,304	1,369,996	1,640	11,706	748	1,225
Other airports <u>2/</u>	258,905	268,587	160	446	2	1

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,167,954, all passing through Honolulu International Airport).

2/ Kapalua West Maui and Princeville (Kauai).

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

Table 549.-- AIR CARGO AND AIRMAIL: 1979 TO 1989

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024
1984	196,215	153,654	23,356	29,497	111,472	16,282
1985	180,470	150,295	21,657	22,119	101,700	16,072
1986	200,255	184,894	22,842	23,725	114,657	16,913
1987	234,098	212,717	23,560	29,004	122,481	17,561
1988	284,783	247,174	27,764	31,028	130,203	18,847
1989	313,402	301,674	28,258	33,542	146,960	20,706

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

Table 550.-- HELICOPTER TOURS: 1977 TO 1990

Subject	1977	1982	1985	1987	1988	1989	1990
Companies	9	14	25	36	36	36	37
Aircraft	15	26	48	71	74	74	78

Source: Hawaii Helicopter Operators Association, records.

Table 551.-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: APRIL 1990

[Data for the 559 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo	67	54	13
Osaka	28	28	-
Hong Kong	-	-	-
Manila	12	12	-
Singapore	6	6	-
Sydney	39	22	17
Auckland	28	14	14
Melbourne	17	17	-
Guam	14	14	-
Seattle	21	7	14
Portland	14	14	-
San Francisco	80	71	9
Los Angeles	148	132	16
Denver	10	7	3
Dallas/Fort Worth	29	22	7
Chicago	22	22	-
Atlanta	12	12	-
New York	14	14	-
All others	125	98	27

Source: Greeters of Hawaii, Jiffisked April 1990. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 552.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS
BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1990

[Updated to August 9, 1990]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time ^{1/} (hours, min.)
	First class	Coach, weekend	Coach weekday	
1980: Jan. 1	302.12	209.08	199.08	5:02
June 1	319.13	221.09	211.08	5:02
Aug. 1	351.14	243.10	233.09	5:02
Oct. 1	365.11	252.08	252.08	5:02
1981: Jan. 20 ...	384.12	265.08	265.08	5:02
Mar. 31 ...	415.12	286.09	286.09	5:02
June 17 ...	425.13	296.09	296.09	5:02
Oct. 1	392.12	280.08	280.08	5:00
1982: Mar. 1	412.12	219.07	219.07	5:00
Apr. 1	412.12	310.09	310.09	5:00
June 1	412.12	328.10	328.10	5:00
Sept. 1 ...	415.16	331.13	331.13	5:00
1983: June 15 ...	415.16	353.14	353.14	5:00
1984: Sept.	415.00	353.14	353.14	5:00
Oct.	415.00	353.00	353.00	5:02
Dec.	454.00	364.00	364.00	5:02
1986: Nov. 14 ...	576.00	459.00	459.00	5:03
1987: Apr. 11 ...	588.00	469.00	469.00	5:00
June 5	598.00	479.00	479.00	5:00
June 30 ...	605.00	486.00	486.00	5:00
Aug. 7	613.00	494.00	494.00	5:00
1989: Feb. 4	718.00	514.00	514.00	5:06
June 3	733.00	524.00	524.00	5:05
1990: Jan. 4	762.00	545.00	545.00	5:05
Feb. 14 ...	771.00	554.00	554.00	5:05

^{1/} Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally.

Source: United Airlines, records.

Table 553.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO,
AND SEATTLE, FOR MAJOR AIRLINES: JULY 1, 1990

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	815	771	850
Coach (unrestricted)	484	459	473
United Airlines, round-trip:			
First class	1,630	1,542	1,700
Coach (unrestricted)	968	918	946
Major carriers, lowest round-trip:			
United Airlines <u>1/</u>	398	398	438
Lowest carrier	398	398	438
Highest carrier	442	466	484
Average	411	415	454

1/ Coach fare, restricted. Requires 14-day advance notice, departure only on Tuesday, Wednesday, or Thursday, and 30-day maximum stay. No one-way fare available.

Source: United Airlines, records; Sunday Star-Bulletin & Advertiser, July 1, 1990, p. F-3.

Table 554.-- REGULAR ONE-WAY "KAMAAINA" FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1982 TO 1990

[Updated to July 24, 1990. "Kamaaina" fares are available only to Hawaii residents]

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7
FARES <u>2/</u>						
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28	52.95	38.95	52.95	38.95	52.95	38.95
July 1	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1	46.95	38.95	46.95	38.95	46.95	38.95
1987: Mar. 1	48.95	46.95	48.95	46.95	48.95	46.95
1988: Oct. 31	41.95	39.90	41.95	39.90	41.95	39.90
1989: Feb. 1	41.95	41.95	41.95	41.95	41.95	41.95
May 8	44.95	44.95	44.95	44.95	44.95	44.95
1990: June 16	49.95	49.95	49.95	49.95	49.95	49.95
July 24	39.50	39.50	39.50	39.50	39.50	39.50
FLIGHT TIMES <u>3/</u>						
1982-1984	26	34	27	34	40	60
1985-1987	25	33	26	33	40	58
1988-1990	27	44	27	41	41	<u>4/</u> 155

1/ DC-9-50 and DC-9-80 from May 1981 through 1985; DC-9-15, DC-9-50, and DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

4/ Includes three stopovers (Molokai, Kapulua, and Kahului).

Source: Hawaiian Airlines, records.

Table 555.-- STATE COMMERCIAL HARBORS: 1990

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	2,787	122	496
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	3,019	124	703
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	45	{ 40	3,300	1,520	28,007	1,733	7,812
Kapalama			3,400	1,000			
Barbers Point .	42	38	2,100	1,800	1,600	-	1,280
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,291	66	291
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, October 12, 1990.

Table 556.-- Lighthouses and Related Facilities, by Islands:
 DECEMBER 1989

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

Island	Number of facilities		Greatest range (nautical-miles)	Highest above--	
	Total	Lighthouses		Sea level (feet)	Ground (feet)
Total	418	22	<u>1/</u> 25	<u>2/</u> 931	<u>3/</u> 138
Hawaii	63	11	24	156	115
Maui	36	4	24	170	48
Molokini	1	-	7	188	30
Kahoolawe	1	-	7	120	20
Lanai	14	1	8	91	13
Molokai	19	1	25	213	138
Oahu	218	3	25	931	71
Kauai	39	2	25	174	80
Niihau	-	-	-	-	-
Lehua	1	-	7	704	10
Midway	25	-	4	43	(NA)
At sea	1	-	-	-	-

NA Not available.

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

2/ Kaena Point Light.

3/ Molokai Light.

Source: U.S. Coast Guard, Light List, Vol. 6, Pacific Coast and Pacific Islands, as corrected through December 1989.

Table 557.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1989

Subject	Number	Subject	Number
Certificates outstanding .	13,501	Type of vessel:	
Length:		Cabin motorboat	2,026
Under 16 feet	5,409	Open motorboat	6,220
16 to less than 20 feet	3,910	Runabout	2,743
20 to less than 40 feet	3,990	Sail/inboard	542
Over 40 feet	192	Sail/outboard	550
Median (feet)	17.4	Sail only	874
Hull material:		Motor vessel over 65 feet .	6
Wood	1,325	Other	540
Fiberglass	10,369	Uses:	
Metal	530	Pleasure	11,524
Inflatable	1,039	Commercial fishing	1,117
Other	238	Charter fishing	25
Propulsion:		Commercial passenger	237
Inboard	949	Other commercial	66
Outboard	8,031	Livery	200
Inboard/outboard	2,015	Dealer or manufacturer ...	40
Sail/inboard	542	Youth group	38
Sail/outboard	550	Government	204
Sail only	874	Other	50
Manual	257	Island kept:	
Other	283	Hawaii	1,987
Type of storage:		Kauai	1,091
On water	2,423	Lanai	50
On land	11,078	Maui	1,266
		Molokai	181
		Oahu	8,926

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 558.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1985 TO 1990

Category	1985	1986	1987	1988	1989	1990
Documented ^{1/}	1,306	1,348	1,389	1,380	1,600	1,700
Numbered ^{2/}	13,443	14,052	14,008	14,250	13,501	...

^{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.

^{2/} Non-documented numbered vessels registered with the Hawaii State Department of Transportation. 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 Transportation, Report of Undocumented Vessel Registration (annual).

Table 559.-- BOATING ACCIDENTS: 1985 TO 1989

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1985	41	2	5	10	50	417.3
1986	54	3	3	14	69	293.0
1987	62	1	2	18	76	720.2
1988	31	4	5	11	41	209.6
1989	40	1	1	28	48	216.8

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 1987 to 1989, and records.

Table 560.-- HARBOR DEPTHS AND VESSEL ARRIVALS, BY DRAFT: 1988

[Excludes domestic fishing craft]

Harbor	Controlling depth (feet)		Inbound vessels, by draft		
	Entrance channel	Basin	Total	18 feet and less	19 feet and more
Hilo .....	...	32.0	987	922	65
Kawaihae	42.0	36.0	660	647	13
Kahului .....	...	32.0	1,451	1,419	32
Kaunapau .....	...	...	654	654	-
Kaunakakai .....	...	...	682	(NA)	(NA)
Kalaupapa .....	...	...	6	6	-
Honolulu	43.0	39.0	<u>1/</u> 7,929	7,247	682
Barbers Point ..	42.0	38.0	458	354	104
Nawiliwili	41.0	33.0	643	631	12
Port Allen .....	...	...	75	(NA)	(NA)

NA Not available.

1/ By type of vessel: self propelled, 4,974 (2,847 passenger and dry cargo, 92 tanker, 2,035 towboat or tugboat); non-self propelled, 2,955 (2,376 dry cargo, 579 tanker).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1988, Part 4 (1990), pp. 30-36 and 111-112.

Table 561.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1980 TO 1990

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085
1985	1,749	9,398,179	2,412	4,480,660
1986	1,825	9,450,373	2,697	4,913,219
1987	2,080	9,974,948	2,848	5,200,667
1988	2,014	10,548,893	3,172	(NA)
1989	2,024	11,219,662	3,101	(NA)
1990	2,159	11,752,880	3,212	(NA)

NA Not available.

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

Table 562.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1985 TO 1990

[Fiscal years ended June 30]

Type of passenger	1985	1986	1987	1988	1989	1990
Overseas:						
In	5,337	6,537	8,681	5,815	15,993	9,770
Out	5,276	6,190	8,103	5,350	16,716	9,084
Interisland:						
In	72,665	84,943	71,049	77,731	78,710	67,199
Out	74,304	82,895	69,337	71,804	78,711	67,199

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

Table 563.-- OVERSEAS AND INTERISLAND SHIPPING: 1983 TO 1988

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444
1984 ...	11,506,043	8,972,870	2,533,173	8,973,092	4,530,456	4,442,636
1985 ...	11,647,021	9,098,694	2,548,327	7,839,743	3,836,113	4,003,630
1986 ...	10,521,866	8,451,641	2,070,225	8,464,107	4,241,904	4,222,203
1987 ...	12,379,815	9,767,966	2,611,849	10,358,749	5,071,134	5,287,615
1988 ...	13,140,832	11,019,824	2,121,008	10,844,603	5,267,754	5,576,849

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual) and printouts, as tabulated by the Hawaii State Department of Transportation, Harbors Division.

Table 564.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:
1984 TO 1988

Harbor	1984	1985	1986	1987	1988
FREIGHT <u>1/</u> (SHORT TONS)					
Hilo	1,570,528	1,318,518	1,198,692	1,365,768	1,455,589
Kawaihae	545,508	526,639	592,018	871,202	654,600
Kahului	1,889,204	1,516,509	1,626,650	2,035,247	2,156,631
Honolulu	8,469,971	7,986,133	8,603,760	9,736,688	10,654,845
Barbers Point	6,564,687	6,751,709	5,629,312	7,135,064	7,511,140
Nawiliwili	944,770	933,477	745,396	916,422	875,753
PASSENGERS <u>2/</u>					
Honolulu	741,922	1,102,398	708,268	154,082	825,377

1/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

2/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1988, Part 4 (1990), pp. 30-37.

Table 565.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1988

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Hilo	1,455,589	15,818	65,089	46,776	75,957	985,682	266,257
Petro. & coal prod. NEC .	195,561	-	-	-	-	194,622	899
Fabricated metal products	243,312	-	-	13	-	141,523	101,776
Kawaihae	654,600	31,892	16,039	7,906	84,029	314,327	200,107
Kahului	2,156,631	16,658	156	45,454	135,909	1,314,785	643,669
Sand, gravel, crushed							
rock	202,722	-	-	-	-	12,067	190,655
Petro. & coal prod. NEC .	204,637	-	-	-	-	190,691	13,946
Fabricated metal products	339,361	1	15	362	-	204,174	134,809
Motor vehicles, parts, and equipment	180,011	3,975	4	83	-	111,974	63,975
Kaunapali	272,881	-	-	1,942	-	95,843	175,096
Fresh fruits	178,789	-	-	-	-	11,767	167,022
Barbers Point	7,511,140	2,714,076	345,198	3,624,064	417,903	99,852	310,047
Crude petroleum	5,283,400	2,257,175	-	3,026,225	-	-	-
Distillate fuel oil	566,848	36,045	39,487	265,520	225,796	-	-
Residual fuel oil	1,179,674	420,856	304,433	297,520	20,112	78,869	57,884
Petro. & coal prod. NEC .	228,680	-	-	-	-	-	228,680
Honolulu	10,654,845	1,560,375	151,737	2,917,957	741,850	1,652,622	3,336,151
Fresh fruits	276,134	1,336	45	20,933	61,927	178,846	13,047
Crude petroleum	1,002,080	1,002,080	-	-	-	-	-
Sand, gravel, fresh rock	215,470	275	-	2,268	7,297	177,862	27,768
Vegetables & prep. NEC ..	177,839	3,970	460	96,238	4,668	44,717	27,786
Prepared fruit & vege- table juice NEC	396,733	2,724	3,874	6,182	256,956	126,667	330
Molasses	214,368	-	11	-	135,632	78,725	-

Continued on next page.

Table 565.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1988 - Con.

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Honolulu - Con.							
Alcoholic beverages	204,807	7,880	1,129	160,073	636	248	34,841
Misc. Food Products	289,034	7,407	5,552	27,176	2,714	99,717	146,468
Lumber	234,660	248	2,506	175,643	843	2,939	52,481
Gasoline	213,137	15	-	96,220	-	-	115,832
Jet fuel	407,489	77,884	-	289,549	-	-	37,586
Distillate fuel oil	353,836	-	9,263	113,914	31,878	1	177,227
Residual fuel oil	667,338	18,698	9,181	4,651	5,698	57,884	321,058
Petro. & coal prod. NEC .	495,948	1	-	15,491	-	96,224	365,530
Building cement	263,954	137,370	-	5,476	-	2,775	118,333
Fabricated metal product	1,064,876	4,948	1,556	67,077	554	410,573	580,168
Motor vehicles, parts, equipment	717,104	37,069	462	101,253	34,815	155,720	387,785
Commodities, NEC	868,873	728	2,072	349,433	25,282	46,482	444,376
Pearl Harbor	81,507	-	-	8,879	1,185	22,609	48,834
Nawiliwili	875,753	10,014	-	17,791	85,956	532,391	229,601
Fabricated metal products	230,321	-	-	64	-	119,866	110,391
Kalaupapa	2,000	-	-	-	-	1,488	512
Kaunakakai	197,186	-	-	222	-	124,502	72,462
Port Allen	123,303	-	-	-	-	123,303	-

486

1/ Includes internal shipments and local traffic, not separately shown. Such movements amounted to 294,153 tons, all at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1988, Part 4 (June 1990), pp. 30-37, and unpublished printouts.