

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 506,000 in 1975 to 749,000 in 1985. Vehicle miles rose during the same period from 4.1 billion to 6.8 billion. Hawaii residents purchased 59,000 new passenger cars and 10,000 trucks in 1985. By the end of that year, 594,000 licensed drivers had access to 4,070 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 58 million in 1975 to 75 million in 1985. Registered bicycles numbered 85,000 in 1985.

Most scheduled interisland travel is by air. In 1985, airlines and air taxis reported 7.9 million interisland passengers, some 48 percent more than in 1975, and carried 51,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 10 civilian heliports, 3,200 active pilots, and about 463 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 1,360 in 1985, air arrivals increased during the same 26-year span from 224,000 to 5.3 million. Overseas cargo received in the State in 1983 amounted to 68,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1985 numbered 13,443, compared with about 8,000 in 1970. Median length was 19.5 feet, and four-fifths were stored on land. There were 1,348 documented vessels in the State in 1986, more than double the 1970 total.

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: 1986, Sections 22 and 23.

Table 492 .-- HIGHWAY DISTANCES: 1986

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	OAHU ^{1/}	
Hilo-Kailua, via Saddle Rd. ..	84.3	Honolulu-Ala Moana Center	1.6
Hilo-Kailua, via Hamakua	91.2	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-Waikiki	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Nuuanu ..	13.3
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Hawi	21.4	Honolulu-Kaneohe, via Kalihi	10.8
Waimea-Kawaihae	11.5	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Wahiawa	46.2
Kawaihae-Kailua	48.4	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Waianae .	44.3
Kailua-Keauhou	6.9	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	KAUAI	
Wailuku-Makena	17.6	Lihue-Haena	38.0
Wailuku-Lahaina, via Kahakuloa	38.0	Lihue-Wailua	5.9
Wailuku-Lahaina, via Olowalu .	20.9	Lihue-Lihue Airport	2.0
Kahului-Kihei	7.9	Lihue-Poipu	11.9
Lahaina-Wailea	32.4	Lihue-Mana	32.9
Lahaina-Napili	8.9	Lihue-Kalalau Lookout	44.6
Lahaina-Kaanapali	3.7	Poipu-Kalalau Lookout	36.8
LANAI		Poipu-Princeville	40.7
Lanai City-Lanai Airport	2.7		
Lanai City-Hulopoe	8.0		

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

Source: Hawaii State Department of Transportation, Highways Division, September 14, 1973 and March 6, 1986.

Table 493.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1923 TO 1985

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

Category	1923	1938	1958	1967	1976	1985
Total mileage ...	1,479	2,040	2,967	3,402	3,797	4,070
Paved ^{1/}	565	1,367	2,393	3,223	3,437	3,808
Unpaved ^{1/}	914	673	575	179	361	262

^{1/} In 1970, 284 miles were reclassified from paved to unpaved.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 429; present report, table 494.

Table 494.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,
BY ISLANDS: DECEMBER 31, 1985

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	4,069.89	106.20	3,701.90	261.79
Hawaii	1,451.47	7.04	1,369.23	75.20
Maui	633.77	3.21	525.90	104.66
Lanai	45.83	-	31.83	14.00
Molokai	125.57	-	113.57	12.00
Oahu	1,426.03	95.95	1,296.64	33.44
Kauai	387.22	-	364.73	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, memorandum dated June 24, 1986.

Table 495.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1985

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,101	Pearl City Viad. .	5,946	Nanue	208
Hawaii	255	Hakalau	775	Nanue	208
Maui	148	Kalialinui	324	Uaoa	79
Lanai	-	None .....	...	None .....	...
Molokai	19	Manawainui	325	Manawainui	50
Oahu	604	Pearl City Viad. .	5,946	Kipapa	156
Kauai	75	Kalihiwai	798	Wahiawa, Koloa ..	90

Source: Hawaii State Department of Transportation, Highways Division, information provided May 21, 1986.

Table 496.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1985

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, May 21, 1986; McBryde Sugar Plantation, February 28, 1986.

Table 497.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES,
BY ISLANDS: DECEMBER 31, 1985

Type of facility and control	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	580	38	18	-	-	516	8
Under State control ^{1/}	205	8	18	-	-	176	3
Under county control	375	30	-	-	-	340	5
Metered on-street parking spaces	3,630	816	-	-	-	2,814	-
Under State control ^{1/}	14	-	-	-	-	14	-
Under county control	3,616	816	-	-	-	2,800	-
Metered off-street parking spaces ^{2/}	3,226	277	68	-	18	2,797	66
Under State control	1,686	87	68	-	18	1,447	66
Acctg. & Gen. Ser.	578	56	26	-	-	471	25
Airports Div.	191	31	42	-	18	59	41
Harbors Div.	917	-	-	-	-	917	-
Under county control	1,540	190	-	-	-	1,350	-

^{1/} All under the Department of Transportation.

^{2/} Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: 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 498.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1975 TO 1985

[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
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
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 <u>3/</u> .	665,620	649,361	542,314	66	3,839
1984	735,458	717,171	599,845	68	4,034
1985	767,892	749,034	625,823	66	4,189
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
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
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 <u>3/</u> .	92,740	1,477	362	8,563	16,259
1984	101,233	1,428	364	10,199	18,287
1985	106,673	1,334	342	10,607	18,858

Footnotes and source on next page.

Table 498.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1975 TO 1985 -- Con.

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.

3/ Apparently not comparable to data for other years.

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

Table 499.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1975 TO 1985

[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
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
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 1/ ...	629,361	475,011	73,343	32,334	68,673
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593

1/ Apparently not comparable to data for other years.

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

Table 500.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:
1975 TO 1985

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 <u>1/</u> ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416
1983 <u>2/</u> ...	542,314	405,761	56,401	24,960	55,192
1984	599,845	447,872	63,182	27,376	61,415
1985	625,823	460,906	68,602	29,890	66,425

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

2/ Apparently not comparable to data for other years.

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

Table 501.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1985
 [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
All vehicles	767,892	555,256	90,171	39,685	82,780
Motor vehicles	749,034	544,976	85,806	37,659	80,593
Passenger vehicles <u>1/</u>	625,823	460,906	68,602	29,890	66,425
Ambulances <u>2/</u>	66	49	12	2	3
Buses	4,189	3,278	253	170	488
Trucks <u>1/</u>	106,673	71,246	15,452	7,192	12,783
Truck tractors <u>3/</u>	1,334	699	321	122	192
Truck cranes <u>4/</u>	342	139	92	38	73
Motorcycles <u>5/</u>	10,607	8,659	1,074	245	629
Trailers and semi-trailers ..	18,858	10,280	4,365	2,026	2,187

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

Table 502.-- 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 503.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: 1985

Empty weight	Passenger vehicles	Buses	Trucks	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles ..	568,486	3,076	37,698	815	5,432	13,255
Under 2,000 lb.	52,484	2	26	-	5,432	10,227
2,000 to 2,999 lb.	295,582	57	8,956	8	-	426
3,000 to 3,999 lb.	168,960	93	10,902	5	-	162
4,000 to 4,999 lb.	47,657	832	8,760	9	-	152
5,000 to 5,999 lb.	3,363	934	2,246	11	-	194
6,000 to 9,999 lb.	297	321	3,250	130	-	970
10,000 lb. and over	143	837	3,558	652	-	1,124
Median weight (lb.)	2,784	5,593	3,905	14,057	<2,000	<2,000

Source: Hawaii State Department of Transportation, Highways Division, printouts; medians calculated by Hawaii State Department of Planning and Economic Development.

Table 504.-- TRUCK CHARACTERISTICS: 1982, 1977, AND 1972

[Percent]

Vehicular and operational characteristics	1982 ^{1/}	1977	1972
Major use: Personal transportation	54.3	50.0	37.6
Body type: Pickup, panel, multistop, or walk-in .	89.6	86.4	73.5
Vehicle size: Light	92.9	89.0	71.6
Annual miles: Less than 10,000	59.7	54.1	59.8
Year model: Over 4 years old	75.8	68.1	59.3
Vehicle acquisition: Purchased new	47.3	54.6	55.9
Fleet size: 1 truck	72.3	64.0	53.4
Truck type: Single-unit, 2 axles	96.6	95.7	91.2
Range of operation: Local	78.2	87.3	84.6
Fuel type: Diesel and LPG	3.7	4.6	6.2

^{1/} There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 505.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1980 TO 1985

Year	Total	Passenger cars	Motor trucks
1980	46,664	37,104	9,560
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352
1983	52,927	42,772	10,155
1984	63,625	48,791	14,834
1985	67,875	51,330	16,545

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

Table 506.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY MAKE, 1985, AND RANK, 1983 TO 1985

Make	New registrations, 1985			Rank		
	Total	Passenger cars	Trucks	1983	1984	1985
All makes ..	68,676	58,700	9,976	...	...	...
Toyota	12,097	10,448	1,649	1	2	1
Nissan	11,735	9,911	1,824	2	1	2
Chevrolet	6,004	4,702	1,302	4	4	3
Ford	5,863	3,946	1,917	3	3	4
Honda	5,363	5,363	-	5	5	5
Mazda	4,357	3,459	898	6	6	6
Dodge	3,949	3,069	880	7	7	7
Oldsmobile	2,406	2,406	-	10	9	8
Buick	2,171	2,171	-	8	8	9
Pontiac	1,761	1,761	-	11	10	10
All others <u>1/</u> ...	12,970	11,464	1,506	...	...	...

1/ For details, see source.

Source: Hawaii Automobile Dealers Association, HADA Yearbook 1986.

Table 507.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1985

Type	State total	Hono- lulu	Mau i	Hawaii	Kauai
Passenger cars ...	58,700	41,455	7,552	7,147	2,546
Trucks	9,976	8,603	543	513	317

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1985.

Table 508.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1984 AND 1985

[Percent distributions]

Place of manufacture	All types		Passenger cars		Trucks	
	1984	1985	1984	1985	1984	1985
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	53.4	54.4	54.3	54.9	47.1	51.6
European ...	2.9	3.0	3.3	3.5	0.0	0.1
Domestics	43.0	41.5	41.9	40.8	50.8	45.7
Not reported .	0.7	1.1	0.5	0.8	2.1	2.7

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1986.

Table 509.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX: DECEMBER 31, 1985

Age	Both sexes	Male	Female
Total	593,952	325,807	268,145
15 to 19 years	35,719	20,764	14,955
20 to 24 years	66,006	35,668	30,338
25 to 34 years	158,654	82,958	75,696
35 to 44 years	131,262	69,580	61,682
45 to 54 years	77,551	41,453	36,098
55 to 64 years	73,302	41,273	32,029
65 to 74 years	39,986	25,665	14,321
75 to 84 years	10,864	7,979	2,885
85 years and over	608	467	141
Median age (years)	37.5	38.0	36.9

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

Table 510.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1973 TO 1985

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973 <u>1/</u>	495,043	399,672	42,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978 <u>2/</u>	541,263	420,005	53,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821
1983	574,533	428,897	64,560	29,169	51,907
1984	582,218	434,053	65,778	28,801	53,586
1985	593,952	441,278	68,177	29,188	55,309

1/ Revised from Data Book 1984, table 523.

2/ Revised from Data Book 1985, table 485.

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

Table 511.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1980 TO 1985

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>
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
COUNTIES: 1985				
Honolulu	246,165	455	4,773.6	8,820
Hawaii	44,209	507	853.5	9,784
Kauai	17,993	458	406.5	10,352
Maui	37,306	459	727.9	8,954

NA Not available.

1/ Includes gasoline, gasohol, 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, May 21, 1986 and August 6, 1986.

Table 512.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway, elevated train, or railroad	38	38	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 and over who did not work at home ...	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 513.-- AVERAGE DAILY TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1982 TO 1985

[Based on average number of vehicles over a 24-hour period
for both directions]

Site	1982	1983	1984	1985
Pali Highway at tunnels	43,722	47,753	46,812	47,835
Likelike Highway at tunnels	45,057	44,644	43,840	48,501
H-1 Freeway at Manoa-Palolo Drainage Canal (includes ramps)	104,500	101,817	110,712	118,028
H-1 Freeway at Kapalama Drainage Canal Bridge	152,487	174,308	164,969	172,655
Nimitz Highway at Kapalama Drainage Canal Bridge	60,425	(NA)	55,312	62,410
Kalaniana'ole Highway east of Ainakoa Ave.	69,706	69,939	73,941	79,830

NA Not available.

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

Table 514.-- PERSONS ARRESTED FOR DRIVING WHILE INTOXICATED,
BY AGE AND SEX: 1984 AND 1985

Year	Actual offenses known to police	Arrests				
		Total	Juveniles		Adults	
			Male	Female	Male	Female
1984	5,197	4,463	40	6	4,102	315
1985	6,229	5,596	47	6	5,089	454

Source: Honolulu Police Department, Annual Statistical
Report for 1984 and 1985.

Table 515.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1980 TO 1985

[Years ended September 30]

Measurement and year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arterials <u>1/</u>	Major collectors <u>2/</u>
AVERAGE SPEEDS (MILES PER HOUR)					
1980	(NA)	53.3	54.5	51.6	51.8
1981	53.0	54.0	55.1	51.1	52.8
1982	54.1	56.6	56.2	51.5	52.4
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
1984					
Miles per hour:					
Median speed	55.1	57.1	57.5	52.7	53.4
85th percentile speed ..	61.6	63.6	63.6	59.3	60.2
Percent exceeding --					
55 miles per hour	45.7	57.0	61.0	32.3	35.0
60 miles per hour	23.2	26.2	49.7	12.2	14.0
65 miles per hour	6.1	8.6	6.4	3.8	6.5
1985					
Miles per hour:					
Median speed	55.1	57.3	58.7	52.7	53.1
85th percentile speed ..	61.8	63.8	65.2	59.4	60.8
Percent exceeding --					
55 miles per hour	43.4	58.4	67.4	29.0	19.1
60 miles per hour	18.8	26.3	34.9	10.5	8.5
65 miles per hour	6.5	8.5	11.5	3.8	5.3

NA Not available.

1/ Data for 1980 refer to multi-lane divided, except interstate.
Data for 1981 and later years refer to principal and minor arterials,
except interstate.

2/ Data for 1980 refer to two-lane rural.

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

Table 516.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1975 TO 1985

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
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
COUNTIES: 1985				
Honolulu	14,997	80	9,158	86
Hawaii	2,368	22	1,845	23
Kauai	794	8	512	8
Maui	1,418	8	1,098	9

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 517.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1984 AND 1985

[As of December 31]

Island	Taxicabs		Bicycles	
	1984	1985	1984	1985
State total	1,696	2,148	78,971	85,041
Hawaii	85	90	3,517	2,487
Maui	123	123	2,839	2,832
Lanai	2	2	168	149
Molokai	-	-	286	256
Oahu	1,430	1,884	68,125	1/ 75,400
Kauai	56	49	4,036	3,917

1/ Excludes 10,144 mopeds.

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

Table 518.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: DECEMBER 1984

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	335	1,886	39,616	221	2,707
Hawaii	18	175	4,794	50	402
Maui	27	249	6,011	34	335
Honolulu	282	1,307	24,460	121	1,777
Kauai	8	155	4,351	16	193

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: Hawaii State Public Utilities Commission, Annual Report for Fiscal Year 1984-1985, p. 23.

Table 519.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1979 TO 1985

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

Calendar year	Miles of track	Passengers <u>1/</u>	Calendar year	Miles of track	Passengers <u>1/</u>
1979	6	103,105	1983 ...	6	171,892
1980	6	111,699	1984 ...	6	197,876
1981	6	128,178	1985 ...	6	199,759
1982	6	155,059			

1/ Revised from Data Book 1985, table 493.

Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 7, 1986.

Table 520.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU:
1983 TO 1985

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

Fare category	1983	1984	1985
All passengers	75,051,618	76,260,187	74,816,485
Adults, full fare	40,401,159	41,846,716	41,997,746
Students	15,037,474	13,548,302	12,717,660
School subsidy	284,620	342,857	350,346
Stadium express	16,370	20,320	10,173
Senior citizens and handicapped	11,606,059	14,381,117	14,207,457
Chartered service	5,718	8,930	12,981
Free transfers	7,700,218	6,111,945	5,520,122

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

Table 521.-- BUS SERVICE, FOR OAHU: 1970 TO 1985

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Total passengers <u>2/</u>	Revenues <u>3/</u> (dollars)
1970 <u>4/</u>	141	4,611,357	30,434,906	4,970,000
1971 <u>5/</u>	108	2,986,724	19,413,259	1,246,351
1972	143	4,964,044	31,031,764	4,445,817
1973	315	7,973,393	36,741,009	5,254,908
1974	333	11,670,774	50,519,626	6,807,147
1975	350	13,328,501	58,295,732	7,990,505
1976	350	15,547,127	64,585,334	9,007,134
1977	350	16,242,537	66,311,882	9,629,349
1978	350	15,991,798	67,746,396	9,686,876
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

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Calendar year 1970; 4-month period ended June 30, 1971; fiscal years ended June 30, 1972 to 1979; calendar years, 1980 forward. The fiscal year figure for 1980 was \$14,817,639.

4/ Passenger total excludes 2,277,502 zone fares.

5/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: HRT, Ltd., data provided by Hawaii State Department of Regulatory Agencies, Public Utilities Division; MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 522.-- BUS FARE CHRONOLOGY, FOR OAHU: 1961 TO 1986

[In dollars. Service was provided by Honolulu Rapid Transit, Ltd., from August 31, 1901 until December 31, 1970, and by the City and County of Honolulu beginning March 1, 1971. For data covering the period from 1868 to 1977, see The State of Hawaii Data Book 1978, table 305, pp. 273-274]

Effective date	Cash fares ^{1/}		Tickets		Monthly passes	
	Adult	School	Adult	School	Adult	School
May 29, 1961 .....	.25	.15	5/1.00	5/.50	...	...
March 1, 1971 .....	.25	.15	...	...	...	...
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 ^{3/} ..	.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 (February 1986).

Source: Honolulu Rapid Transit Co., Ltd., records; City and County of Honolulu, Department of Transportation Services, records.

Table 523.-- AUTOMOTIVE RENTAL AND LEASING (WITHOUT DRIVERS)
ESTABLISHMENTS, BY COUNTIES: 1982

[Limited to establishments with payroll]

Subject	State total	Hono- lulu	Hawaii	Kauai	Maui
Number of establishments ..	90	45	16	10	19
Receipts (\$1,000)	137,954	80,805	15,112	11,081	30,956

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3, 13, 18, and 19.

Table 524.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1985 AND 1986

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1985						
State total	8	6	6	3	1	9
Hawaii	3	1	1	1	-	4
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-
1986						
State total	8	6	6	1	1	9
Hawaii	3	1	1	-	-	4
Maui	1	1	-	-	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	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, information provided January 10, 1986 and January 6, 1987.

Table 525.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1975 TO 1985

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1975	319,776	51,145	40,622	77,062	53,356
1976	320,565	52,982	58,425	90,455	58,865
1977	329,926	60,377	83,616	100,655	65,636
1978	379,106	52,677	91,033	125,291	74,583
1979	412,739	51,703	92,235	127,477	71,033
1980	375,408	49,969	66,944	111,573	62,829
1981	339,359	53,274	57,488	102,760	59,404
1982	308,728	47,964	51,889	112,428	65,305
1983	333,038	54,470	66,581	124,288	71,739
1984	343,818	62,543	83,320	142,311	100,992
1985	357,511	61,225	93,879	157,231	131,755

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), and records.

Table 526.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1985

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	357,511	167,154	79,329	81,103	29,925
Gen. Lyman	61,225	15,336	6,423	20,555	18,911
Kahului	157,231	71,745	43,777	30,558	11,151
Lihue	131,755	27,224	80,665	13,006	10,860
Keahole	93,879	20,510	31,473	22,313	19,583
Molokai	56,048	4,884	38,669	8,693	3,802

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

Table 527.-- CIVIL FLYING: 1981 TO 1984

Item	1981	1982	1983	1984
Aircraft facilities, Dec. 31	51	49	51	51
Airports	37	36	37	37
Heliports	14	13	14	14
Public aircraft facilities, Dec. 31 ...	18	18	14	14
Paved and lighted facilities, Dec. 31 .	11	11	12	12
Aircraft in operation, Dec.	23	28	32	38
Aloha Airlines, Inc. <u>1/</u>	8	8	8	9
Hawaiian Airlines, Inc. <u>1/</u>	10	12	13	18
Mid Pacific Airlines, Inc.	5	8	11	11
General aviation: <u>2/</u>				
Active civil aircraft, Dec.	623	426	381	463
Standard error	181	158	152	143
Hours flown (1,000)	288	86	97	206
Standard error (1,000)	131	34	34	95
Active personnel, Dec. 31:				
Pilots, except instructors	3,532	3,327	3,224	3,187
Flight instructors	276	291	260	303
Nonpilot airmen <u>3/</u>	2,965	3,118	3,099	3,191

1/ Large aircraft only.

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

3/ 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 528.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING
HAWAII: 1984 TO 1986

[As of June 30. Includes both scheduled and nonscheduled services;
excludes commuter lines and other air taxi service]

Service	1984	1985	1986
All air carriers ^{1/}	31	32	32
Transpacific	29	30	30
Domestic	16	17	18
Foreign	13	13	12
Interisland	4	4	4
Passenger carriers	3	3	3
Cargo and mail only	1	1	1

^{1/} Unduplicated totals. Two carriers provided both transpacific and interisland service in all three years.

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

Table 529.-- AIR CARGO AND AIRMAIL: 1980 TO 1985

[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
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

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

Table 530.-- TRANSPACIFIC AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1970 TO 1985

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

Year	Transpacific passengers			Inter- island passenger arrivals ^{1/}
	Arrivals	Departures	Through	
1970 ..	2,190,809	2,158,577	893,890	2,992,777
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
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

^{1/} Air taxi service was seriously underreported
before 1977.

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

Table 531.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1984 AND 1985

[Data for Aloha Airlines, Inc., Hawaiian Airlines, Inc., and Mid Pacific Airlines, Inc.]

Subject	1984 <u>1/</u>	1985
Number of airlines	3	3
Aircraft revenue departures <u>2/</u> (1,000)	119.9	121.5
Aircraft revenue miles <u>2/</u> (1,000)	15,143	17,490
Average airborne speed <u>2/</u> (miles per hour) ..	261	284
Average available seats per aircraft mile flown <u>2/</u>	110.9	138.7
Revenue passengers: <u>2/</u>		
Enplanements (1,000)	6,706	6,876
Load factor (percent)	57.4	59.4
Revenue ton-miles (1,000): <u>3/</u>		
Freight	8,516	5,802
Mail	2,949	1,847
Number of employees <u>4/</u>	1,810	2,731
Operating revenues <u>5/</u> (\$1,000)	223,250	251,521
Operating profit or loss <u>5/</u> (\$1,000)	3,782	2,919
Average passenger revenues per revenue passenger-mile <u>5/</u> (cents)	22.5	14.8
Average freight revenues per revenue ton-mile <u>5/</u> (dollars)	2.64	1.66

1/ Revised from Data Book 1985, table 505.

2/ Scheduled service only.

3/ Scheduled service only; excludes Mid Pacific.

4/ Weighted average for year; excludes Mid Pacific for 1984.

5/ Excludes Mid Pacific.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Office of Aviation Information Management. Aloha Airlines, Inc. and Hawaiian Airlines, Inc. from Department of Transportation (DOT) Form 41. Mid Pacific Airlines, Inc. traffic data from DOT Form 298C.

Table 532.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1985

Airport	Passengers ^{1/}		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	5,293,528	5,317,862	90,236	75,148	10,829	11,059
Honolulu	4,849,471	4,833,147	88,500	71,862	10,620	11,059
General Lyman ...	9,211	9,457	518	145	174	-
Kahului	349,668	369,779	672	1,688	35	-
Keahole	59,740	70,193	531	1,408	-	-
Lihue	25,438	35,286	15	45	-	-
INTERISLAND						
Total	7,878,598	7,878,598	50,850	50,850	8,036	8,036
Honolulu	3,458,592	3,497,493	33,529	14,782	4,476	3,521
General Lyman ...	514,068	541,193	9,193	8,930	1,278	1,213
Upolu	1,065	1,079	-	-	-	-
Waimea-Kohala ...	7,928	7,859	-	-	-	-
Keahole	693,454	662,426	2,868	3,405	517	829
Kahului	1,799,826	1,786,262	3,311	15,399	1,149	1,622
Hana	10,721	10,250	-	70	-	-
Kaanapali	57,066	56,491	-	-	-	-
Molokai	170,300	170,532	160	276	50	11
Kalaupapa	5,513	5,333	4	100	-	-
Lanai	26,459	26,442	3	36	4	-
Lihue	1,115,728	1,094,792	1,782	7,852	562	840
Other airports ..	17,878	18,446	-	-	-	-

^{1/} Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (858,501, all through Honolulu International Airport).

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

Table 533.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1985

[Year ended December 31, 1985. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului	100	17	1,121	394	112,536
Honolulu-Los Angeles	2,568	24	966	3	2,487,530
Honolulu-Lihue	102	37	762	552	79,555
Honolulu-San Francisco	2,399	52	587	13	1,423,559
Honolulu-Kona	169	83	465	539	81,344
Honolulu-Chicago	4,251	129	309	30	791,997
Honolulu-New York	4,971	167	258	15	1,296,430
Honolulu-Seattle	2,678	294	155	65	443,976
Honolulu-Las Vegas	2,762	341	132	87	372,013
Honolulu-Boston	5,095	592	75	80	389,575
Honolulu-Washington	4,828	599	74	91	363,517

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, records.

Table 534.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS
BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1986

[Updated to September 1, 1986]

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

^{1/} Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally: From November through April, average flight time is 5:02 and from May through October, it is 4:58.
Source: United Airlines, records.

Table 535.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1981 TO 1986

[Updated to September 1, 1986]

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>						
1981: Jan. 1	47.00	...	47.00	...	59.00	...
March 1	49.00	...	49.00	...	61.00	...
April 26	49.00	49.00	49.00	49.00	61.00	61.00
May 1	51.00	51.00	51.00	51.00	63.00	63.00
Oct. 15	43.00	43.00	43.00	43.00	53.00	53.00
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
FLIGHT TIMES <u>3/</u>						
1981-1984	26	34	27	34	40	60
1985-1986	25	33	26	33	40	68

1/ DC-9-50, through May 1981; 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.

Source: Hawaiian Airlines, records.

Table 536.-- STATE COMMERCIAL HARBORS: 1986

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	446
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	2,749	124	586
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	} 45	{ 40	3,300	1,520	} 26,363	} 1,873	} 7,215
Kapalama		{ 40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,216	66	247
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 537.-- SHIP BUILDING AND REPAIR, WATER TRANSPORTATION, AND BOAT SALES ESTABLISHMENTS, EMPLOYEES, AND PAYROLL: 1984

SIC code	Industry	Number of establishments	Number of employees, March	Annual payroll (\$1,000)
373	Ship and boat building & repairing	9	263	7,082
44	Water transportation	52	1,511	41,058
4463	Marine cargo handling	6	683	24,328
555	Boat dealers	18	81	798

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), pp. 5-7.

Table 538.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1982 TO 1986

Category	1982	1983	1984	1985	1986
Documented <u>1/</u>	1,225	1,300	1,203	1,306	1,348
Numbered <u>2/</u>	12,999	12,604	13,122	13,443	...

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. The data for 1982 and 1983 are Coast Guard estimates. All data 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. All data 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 539.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1985

Subject	Number	Subject	Number
Certificates outstanding .	13,443	Type of vessel:	
Length:		Cabin motorboat	1,958
Under 16 feet	5,327	Open motorboat	5,032
16 to less than 26 feet	3,916	Runabout	2,807
26 to less than 40 feet	3,975	Sail/inboard	581
Over 40 feet	200	Sail/outboard	612
Dealers, manufact.	25	Sail only	1,198
Median (feet)	19.5	Motor vessel over 65 feet .	6
Hull material:		Other	1,249
Wood	1,853	Uses:	
Fiberglass	10,161	Pleasure	11,474
Metal	489	Commercial fishing	1,241
Inflatable	643	Charter fishing	14
Other	272	Commercial passenger	210
Propulsion:		Other commercial	57
Inboard	955	Livery	175
Outboard	7,680	Dealer or manufacturer	25
Inboard/outboard	2,005	Youth group	25
Sail/inboard	581	Government	165
Sail/outboard	612	Other	57
Sail only	1,198	Island kept:	
Other	387	Hawaii	1,952
Type of storage:		Kauai	1,066
On water	2,534	Lanai	53
On land	10,909	Maui	1,223
		Molokai	178
		Oahu	8,971

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

Table 540.-- BOATING ACCIDENTS: 1984 AND 1985

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1984	42	6	8	9	52	304.8
1985	41	2	5	10	50	417.3

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 541.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1976 TO 1986

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
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

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 542.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1984

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel			
		Self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	
Hilo	778	84	1	273	
Kawaihae	436	14	-	161	
Kailua, Kona	715	715	-	-	
Kahului	1,144	91	6	382	
Kaunapau	710	165	-	264	
Kaunakakai	618	-	-	233	
Kalaupapa	8	-	-	4	
Honolulu	5,954	2,188	37	1,575	
Barbers Point	336	4	94	192	
Nawiliwili	643	59	-	179	
Port Allen	80	1	1	50	
		By type of vessel -- con.		By draft	
		Non-self propelled vessels			
Harbor		Dry cargo	Tanker	18 feet and less	19 feet and more
Hilo	352	68		730	48
Kawaihae	256	5		426	10
Kailua, Kona	-	-		715	-
Kahului	591	74		1,081	63
Kaunapau	281	-		710	-
Kaunakakai	382	3		(1/)	(1/)
Kalaupapa	4	-		8	-
Honolulu	1,953	201		5,317	637
Barbers Point	10	36		241	95
Nawiliwili	377	28		633	10
Port Allen	27	1		(2/)	(2/)

1/ Not available. All vessels were 22 feet and less.

2/ Not available. All vessels were 25 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1984, Part 4 (1986), pp. 113-114.

Table 543.-- TRANSPACIFIC AND INTERISLAND SURFACE REVENUE PASSENGERS:
1980 TO 1985

Year	Transpacific passengers <u>1/</u>			Inter-island passenger arrivals <u>2/</u>
	Disembarking	Embarking	Intransit	
1980	399	353	11,421	15,763
1981	614	510	9,847	33,108
1982	542	461	6,785	39,057
1983	741	740	8,419	56,073
1984	726	361	6,692	78,443
1985	1,360	1,479	3,249	69,864

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu.

2/ Calendar year statistics. Interisland cruise ship service was begun June 21, 1980. Data exclude interisland travel by transpacific cruise ships.

Source: TheoDavies Marine Agencies, Inc., records, and American Hawaii Cruises, records.

Table 544.-- OVERSEAS AND INTERISLAND SHIPPING: 1979 TO 1984

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,330	9,389,458	2,293,872	7,230,395	3,691,297	3,539,098
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
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

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 545.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:
1974 TO 1984

Subject and year	Hilo	Kawaihae	Kahului	Hono- lulu <u>1/</u>	Barbers Point	Nawiliwili
FREIGHT TRAFFIC <u>2/</u> (SHORT TONS)						
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
1983	1,522,442	441,458	1,842,568	8,039,850	7,051,230	1,008,699
1984	1,570,528	545,508	1,889,204	8,469,971	6,564,687	944,770
PASSENGERS <u>3/</u>						
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-
1982	-	-	-	465,466	-	-
1983	-	-	-	688,689	-	-
1984	-	-	-	741,922	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

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

3/ 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 1984, Part 4 (1986), pp. 32-37.

Table 546.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1984

[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	1,570,528	20,736	13,091	34,945	183,674	907,901	410,181
Sugar	183,411	-	-	-	183,350	36	25
Fabricated metal products	397,775	-	-	-	-	221,093	176,682
Kawaihae	545,508	124	5,030	-	220,184	199,501	120,669
Sugar	220,184	-	-	-	220,184	-	-
Kahului	1,889,204	21,453	34,536	8,599	233,972	1,139,450	451,194
Sugar	234,539	-	24	-	233,972	51	492
Distillate fuel oil	243,061	-	24,553	-	-	218,508	-
Fabricated metal products	366,270	-	-	-	-	240,971	125,299
Motor vehicles, parts, equipment	184,878	1,955	-	-	-	128,541	54,382
Barbers Point	6,564,687	2,283,612	521,576	3,589,807	118,500	-	51,192
Crude petroleum	4,937,716	2,251,828	-	2,685,888	-	-	-
Residual fuel oil	1,501,557	31,784	499,310	881,561	72,036	-	16,866
Honolulu	8,469,971	715,976	104,056	2,277,760	923,272	1,521,479	2,910,433
Fresh fruits	346,501	908	586	16,423	85,508	241,481	1,595
Crude petroleum	241,808	241,808	-	-	-	-	-
Vegetables and prepara- tions, canned	185,891	3,560	248	93,729	12,407	49,471	26,476
Prep. fruit, veg. juice .	440,762	2,485	7,240	8,153	284,246	137,510	1,128
Animal feeds	155,706	1,030	1,503	90,884	-	2,062	60,227
Molasses	405,053	-	-	2,400	252,128	150,525	-
Alcoholic beverages	192,119	4,837	830	152,543	442	34	33,433
Misc. food products	254,012	5,156	3,399	28,067	3,276	116,370	97,744
Lumber	218,341	860	1,248	195,679	923	1,750	17,881
Gasoline	191,712	-	2	-	-	610	191,100

Continued on next page.

Table 546.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1984 - Con.

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

Harbor and commodity	Total ^{1/}	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Honolulu - Con.							
Jet fuel	245,753	73,276	-	155,465	-	-	16,566
Distillate fuel oil	446,457	6	732	4,111	11	-	441,421
Residual fuel oil	258,309	-	6,705	18	-	16,866	218,347
Fabricated metal products	1,223,447	6,951	706	49,314	1,390	468,754	696,332
Motor vehicles, parts, equipment	597,905	39,760	130	73,950	30,502	115,623	337,940
Nawiliwili	944,770	10,471	905	9,387	167,308	494,034	262,665
Sugar	167,311	-	-	-	167,308	3	-
Fabricated metal products	292,200	-	-	-	-	160,908	131,292
Hana	-	-	-	-	-	-	-
Pearl	(NA)	(NA)	(NA)	-	8,746	4,003	21,878
Kalaupapa	1,278	-	-	-	-	835	443
Kaunakakai	137,825	-	-	-	-	83,637	54,188
Port Allen	90,008	(NA)	(NA)	-	-	82,158	781
Kaumalapau	265,356	-	-	-	-	50,269	215,087
Fresh fruits	214,456	-	-	-	-	80	214,376

NA Not available.

^{1/} Includes internal receipts and local traffic, not separately shown. Internal receipts amounted to 6,978 tons, all residual fuel oil at Honolulu. Local traffic amounted to 10,017 tons, also at Honolulu (including 9,395 tons of residual fuel oil).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1984, Part 4 (June 1986), pp. 32-38, and unpublished printouts.

Table 547 .-- WATERBORNE EXPORTS AND GENERAL IMPORTS, BY PORT OF LADING OR UNLADING: 1984

Category	Honolulu Customs District	Hono- lulu	Hilo	Kahu- lui	Nawili- wili-Pt Allen
WATERBORNE EXPORTS					
Shipping weight <u>1/</u>	1,375	1,253	36	69	16
Dry cargo, total	202	195	7	1	(Z)
Domestic and foreign ..	201	194	7	1	(Z)
In-transit	1	1	-	(Z)	(Z)
Dept. of Defense <u>2/</u> ...	(Z)	(Z)	-	-	-
Tanker, total <u>3/</u>	1,172	1,058	30	68	16
Domestic and foreign ..	1,172	1,058	30	68	16
Value: <u>4/</u>					
Dry cargo, total	51	51	(Z)	(Z)	(Z)
Domestic and foreign ..	51	50	(Z)	(Z)	(Z)
Tanker, total	94	86	(Z)	7	(Z)
Domestic and foreign ..	94	86	(Z)	7	(Z)
WATERBORNE GENERAL IMPORTS					
Shipping weight <u>1/</u>	6,105	5,999	42	43	21
Dry cargo, total	835	729	42	43	21
General imports	834	729	42	43	21
In-transit	(Z)	(Z)	-	-	-
Tanker, total <u>3/</u>	5,270	5,270	-	-	-
General imports	5,270	5,270	-	-	-
Value <u>4/</u>	980	954	2	22	1
Dry cargo, total <u>3/</u>	479	453	2	22	1
General imports	478	452	2	22	1
Tanker, total <u>3/</u>	502	502	-	-	-
General imports	502	502	-	-	-

Z Less than half of the unit of measurement shown.

1/ In millions of pounds.

2/ Includes special category non-DoD controlled cargo.

3/ Includes in-transit.

4/ In millions of dollars.

Source: U.S. Bureau of the Census, U.S. Waterborne Exports and General Imports, Annual 1984, FT985-84-13 (August 1985).