

## 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.

Motor vehicle registration in Hawaii increased from 455,000 in 1972 to 672,000 in 1982. Vehicle miles rose during the same period from 3.8 billion to 6.0 billion. Hawaii residents purchased 37,000 new passenger cars in 1982 and scrapped or shipped out approximately 13,000. By the end of 1982, 561,000 licensed drivers had access to 4,060 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 31 million in 1972 to 74 million in 1982. Registered bicycles numbered 108,000 in 1974 and 62,000 in 1982.

Most scheduled interisland travel is now by air. In 1982, airlines and air taxis reported 7.3 million interisland passengers, almost two times their 1972 total, and carried 57,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 8 civilian heliports, 3,532 active pilots, and about 623 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 542 in 1982, air arrivals increased during the same 24-year span from 224,000 to 4.7 million. Overseas cargo received in the State in 1980 amounted to 57,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1982 numbered 12,999, compared with 10,250 in 1972. Median length was 18 feet, and four-fifths were stored on land. There were also 1,225 or so documented vessels in the State in 1982, almost double the 1972 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, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1982-83, Sections 22 and 23.

Table 440.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1982

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

Island	Total <u>1/</u>	Paved	Unpaved
State total .....	4,059.83	3,749.30	310.53
Hawaii .....	1,561.36	1,406.61	154.75
Maui .....	607.33	536.92	70.41
Lanai .....	45.83	31.83	14.00
Molokai .....	127.16	115.16	12.00
Oahu .....	1,370.74	1,334.14	36.60
Kauai .....	347.41	324.64	22.77
Niihau .....	-	-	-

1/ Includes 36.27 miles of freeway, all on Oahu.

Source: Hawaii State Department of Transportation, data provided July 5, 1983.

Table 441.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1982

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State total	1,093	Pearl City Viad.	5,946	Nanue .....	208
Hawaii ...	251	Hakalau .....	775	Nanue .....	208
Maui .....	150	Kalialinui .....	324	Uaoa .....	79
Lanai .....	-	None .....	...	None .....	...
Molokai ..	19	Manawainui .....	325	Manawainui .....	50
Oahu .....	592	Pearl City Viad. .	5,946	Kipapa .....	156
Kauai ....	81	Kalihiwai .....	798	Wahiawa, Koloa ..	90
Niihau ...	-	None .....	...	None .....	...

Source: Hawaii State Department of Transportation, information provided April 4, 1983.

Table 442.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1982

Island and name of tunnel	Length (feet)
All tunnels .....	9,376
Oahu:	
Pali No. 1: Inbound .....	1,000
Outbound .....	1,080
Pali No. 2: Inbound .....	500
Outbound .....	497
Wilson: Inbound .....	2,775
Outbound .....	2,813
Middle Street (CD) .....	393
Maui:	
Olowalu .....	318

Source: Hawaii State Department of Transportation,  
information submitted April 4, 1983.

Table 443.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES,  
BY ISLANDS: DECEMBER 31, 1980

Island	Signal- ized inter- sections	Metered parking spaces	
		On-street	Off-street
State total .....	586	3,442	4,308
Hawaii .....	30	458	291
Maui .....	14	-	26
Lanai .....	-	-	-
Molokai .....	-	-	16
Oahu .....	537	2,984	3,887
Kauai .....	5	-	88
Niihau .....	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the 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 444.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1972 TO 1982

[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
1972 ....	468,410	454,829	390,062	97	1,347
1973 ....	499,525	484,521	413,839	99	1,724
1974 ....	510,627	495,037	420,228	90	1,951
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
		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
1972 ....	50,451	1,696	776	10,400	13,581
1973 ....	56,002	1,747	767	10,343	15,004
1974 ....	59,759	1,796	766	10,447	15,590
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

Footnotes and source on next page.

Table 444.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:  
1972 TO 1982 -- 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.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 445.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:  
1972 TO 1982

[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
1972 .....	454,829	354,544	45,316	20,766	34,203
1973 .....	484,521	375,763	49,053	22,167	37,538
1974 .....	495,037	381,502	51,064	22,802	39,669
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

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 446.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:  
1972 TO 1982

[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
1972 .....	390,062	310,144	35,623	16,716	27,579
1973 .....	413,839	327,638	38,299	17,766	30,136
1974 .....	420,228	331,266	39,428	18,135	31,399
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 <sup>1/</sup> ...	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

<sup>1/</sup> 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.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 447.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1982  
 [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 .....	689,468	505,437	81,284	35,931	66,816
Motor vehicles .....	671,513	495,629	77,024	33,931	64,929
Passenger vehicles <u>1/</u> .....	566,060	429,244	59,103	26,297	51,416
Ambulances <u>2/</u> .....	80	60	9	7	4
Buses .....	3,863	2,937	328	204	394
Trucks <u>1/</u> , .....	88,410	53,219	16,078	6,955	12,158
Truck tractors <u>3/</u> .....	1,395	676	367	142	210
Truck cranes <u>4/</u> .....	388	150	109	44	85
Motorcycles <u>5/</u> .....	11,317	9,343	1,030	282	662
Trailers and semi-trailers ..	17,955	9,808	4,260	2,000	1,887

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles beginning in 1979 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.



Table 448.-- VEHICLES AVAILABLE TO HOUSEHOLDS:  
1960 TO 1980

Vehicles available <u>1/</u>	State total			Oahu only: 1980
	1960	1970	1980	
All households ....	153,012	203,089	294,052	230,214
None .....	25,871	22,170	30,509	25,628
1 .....	88,320	93,854	115,357	95,735
2 .....	32,577	69,343	94,699	71,456
3 or more .....	6,244	17,722	53,487	37,395

1/ "Automobiles available" before 1980.

Source: U.S. Bureau of the Census, U.S. Census of Housing: 1960, State and Small Areas, Hawaii, HC(1)-13 (1961), table 6; Census of Housing: 1970, Detailed Housing Characteristics, Hawaii, HC(1)-B13 (December 1961), table 36; 1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, Hawaii PHC80-S2-13 (September 1982), table H-1.

Table 449.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS:  
1981 AND 1982

[As of December 31.]

Island	Taxis		Bicycles	
	1981	1982	1981	1982
State total .....	1,605	1,730	69,328	62,017
Hawaii .....	66	76	3,549	2,467
Maui .....	111	123	2,232	1,903
Lanai .....	2	2	132	174
Molokai .....	-	2	198	110
Oahu .....	1,381	1,481	61,783	56,173
Kauai .....	45	46	1,434	1,190
Niihau .....	-	-	-	-

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

Table 450.-- COMPONENTS OF CHANGE IN PASSENGER  
VEHICLE REGISTRATION: 1972 TO 1982

Year	Net increase since pre- vious year	New cars registered	Scrapped or shipped out
1972 ..	18,357	37,484	19,127
1973 ..	23,777	41,919	18,142
1974 ..	6,389	30,932	24,543
1975 ..	9,815	33,693	23,878
1976 ..	22,573	38,006	15,433
1977 ..	22,752	44,482	21,730
1978 ..	14,510	44,383	29,873
1979 ..	20,475	40,481	20,006
1980 ..	4,316	37,104	32,788
1981 ..	27,263	39,188	11,925
1982 ..	24,128	37,137	13,009

Source: Net increase from City and County of Honolulu, Department of Data Systems, unpublished tabulations. New cars registered from R. L. Polk and Co. data for 1972-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and 1979 and later years in MVMA Motor Vehicle Facts and Figures for 1981 (p. 15) and 1983 (p. 20). Vehicles scrapped or shipped out of State computed as a residual.

Table 451.-- NEW PASSENGER CARS AND MOTOR TRUCKS  
REGISTERED: 1979 TO 1982

Year	Total	Passenger cars	Motor trucks
1979 .....	48,371	40,481	7,890
1980 .....	46,664	37,104	9,560
1981 .....	46,995	39,188	7,807
1982 .....	44,489	37,137	7,352

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures for 1981 (p. 15) and 1983 (p. 20).

Table 452.-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1982  
[As of December 31.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973 .....	495,043	399,672	45,530	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 .....	541,263	420,005	54,504	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

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

Table 453.-- NEW PASSENGER CAR REGISTRATIONS, BY ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF HONOLULU: 1980 TO 1982

Origin and make of vehicle	1980	1981	1982
Total .....	31,934	32,037	31,469
Domestic <u>1/</u> .....	12,334	13,298	13,273
Buick .....	1,218	1,210	1,301
Chevrolet .....	2,469	2,551	1,271
Dodge .....	410	647	1,032
Ford .....	3,297	3,895	3,710
Lincoln .....	(NA)	304	455
Mercury .....	885	1,866	3,400
Oldsmobile .....	699	595	366
Plymouth .....	1,103	678	308
Pontiac .....	828	811	751
Other makes .....	<u>2/</u> 1,425	741	679
Foreign <u>1/</u> .....	19,600	18,739	18,196
Datsun .....	3,881	3,160	3,682
Honda .....	2,678	3,661	3,345
Mazda .....	3,370	2,819	2,777
Subaru .....	1,147	1,200	929
Toyota .....	5,435	5,319	5,370
Volkswagen .....	1,680	1,075	757
Other makes .....	1,409	1,505	1,336

NA Not available.

1/ Vehicles manufactured abroad but sold under domestic nameplates are included in the domestic subtotals. Vehicles manufactured domestically but sold under foreign nameplates are included in the foreign subtotals.

2/ Includes Lincoln.

Source: Cardinal Mailing Services, Ltd., records.

Table 454.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:  
1972 TO 1982

Year and county	Highway fuel consumption <u>1/</u>		Vehicle miles of travel <u>2/</u>	
	Total (1,000 gallons)	Gallons per vehicle <u>3/</u>	Total (millions)	Per vehicle <u>3/</u>
1972 .....	268,407	601	3,757.7	8,414
1973 .....	289,847	608	4,057.9	8,511
1974 .....	279,996	574	3,919.9	8,038
1975 .....	296,160	590	4,146.2	8,263
1976 .....	308,151	574	4,314.1	8,041
1977 .....	324,449	578	4,542.3	8,088
1978 .....	338,440	583	4,738.2	8,164
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

Footnotes and source follow next table.

Table 455.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,  
BY COUNTIES: 1982

County	Highway fuel consumption <u>1/</u>		Vehicle miles of travel <u>2/</u>	
	Total (1,000 gallons)	Gallons per vehicle <u>3/</u>	Total (millions)	Per vehicle <u>3/</u>
State total ..	323,827	482	6,048.3	9,007
Honolulu .....	235,605	479	4,322.3	8,786
Hawaii .....	40,101	512	767.5	9,799
Kauai .....	15,916	450	366.5	10,364
Maui .....	32,205	489	592.0	8,984

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

2/ Beginning in 1980, based on weighted annual average vehicle miles traveled per type of vehicle by county of inspection. Data for 1979 and earlier years based on an average of 14 miles per gallon and thus not comparable to 1980 and later figures.

3/ 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, annual releases and records.

Table 456.-- AVERAGE SPEEDS ON HIGHWAYS: 1976 TO 1981

[In miles per hour. Years ended June 30 through 1976 and September 30 thereafter.]

Year	Interstate		Multi-lane divided	Two-lane rural
	Urban	Rural		
1976 .....	54.0	55.2	52.1	51.3
1977 .....	54.7	56.0	53.5	52.3
1978 .....	54.1	56.3	52.6	52.0
1979 .....	54.8	55.7	53.3	53.2
1980 .....	53.3	54.5	51.6	51.8
1981 .....	54.0	55.1	(NA)	(NA)

NA Not available.

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

Table 457.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: OCTOBER 1980 TO SEPTEMBER 1981

Measurement	State-wide	Urban: inter-state	Rural		
			Inter-state	Other arterials <sup>1/</sup>	Major collectors
Miles per hour:					
Average speed .....	53.0	54.0	55.1	51.1	52.8
Median speed .....	53.3	54.4	55.5	51.4	52.7
85th percentile speed .....	59.5	61.2	61.5	57.2	58.9
Percent exceeding —					
55 miles per hour .....	36.4	43.4	49.4	25.0	31.8
60 miles per hour .....	13.4	17.6	18.7	7.9	10.7
65 miles per hour .....	3.7	5.0	4.6	2.2	3.9

<sup>1/</sup> Principal and minor arterials, except interstate.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 1981, pp. 171-172.

Table 458.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1972 TO 1982

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1972 .....	18,259	126	11,141	146
1973 .....	19,544	119	11,860	136
1974 .....	14,855	119	10,022	129
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

1/ Traffic accidents with damage of \$300 or more (\$100 or more before July 1, 1974) or causing injury or death.  
Source follows next table.

Table 459.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1982

County	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	16,407	143	11,865	161
Honolulu .....	12,180	84	8,659	94
Hawaii .....	2,028	34	1,678	36
Kauai .....	755	7	461	7
Maui .....	1,444	18	1,067	24

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 460.-- BUS SERVICE, FOR OAHU: 1970 TO 1982

[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>	Passengers <u>2/</u>
1970 <u>3/</u> .....	141	4,611,357	30,434,906
1971 <u>4/</u> .....	108	2,986,724	19,413,259
1972 .....	143	4,964,044	31,031,764
1973 .....	315	7,973,393	36,741,009
1974 .....	333	11,670,774	50,519,626
1975 .....	350	13,328,501	58,295,732
1976 .....	350	15,547,127	64,585,334
1977 .....	350	16,242,537	66,311,882
1978 .....	350	15,991,798	67,746,396
1979 .....	350	15,915,000	68,765,000
1980 .....	400	16,579,392	71,601,744
1981 .....	400	16,748,338	73,546,802
1982 .....	400	16,767,816	74,109,528

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

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

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

Table 461.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU:  
1980 TO 1982

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

Fare category	1980	1981	1982
All passengers .....	71,601,744	73,546,802	74,109,528
Adults, full fare .....	36,799,259	38,743,828	39,538,266
Students .....	16,765,875	16,483,937	15,967,924
School subsidy .....	150,972	209,827	235,927
Stadium express .....	18,162	16,376	18,828
Senior citizens and handicapped .....	9,301,724	9,579,937	9,632,807
Chartered service .....	10,015	11,131	9,259
Free transfers .....	8,555,737	8,501,766	8,706,517

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

Table 462.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1982

Year	Revenues 1/ (dollars)	Cash fares 2/ (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD.			
1970 .....	4,970,000	25	15
CITY AND COUNTY OF HONOLULU			
1971 <u>3/</u> .....	1,246,351	25	10
1972 .....	4,445,817	25/50	10/25
1973 .....	5,254,908	25/50	10/25
1974 .....	6,807,147	25	10
1975 .....	7,990,505	25	10
1976 .....	9,007,134	25	10
1977 .....	9,629,349	25	10
1978 .....	9,686,876	25	10
1979 .....	9,931,000	25	10
1980 <u>4/</u> .....	17,388,760	50	25
1981 .....	17,991,735	50	25
1982 .....	18,269,144	50	25

1/ Calendar year data for 1970 and 1980-1982; fiscal years ending June 30 for 1971-1979.

2/ As of December 31, 1970 and June 30, 1971-1982.

3/ Service commenced March 1; revenues are for 4-month period.

4/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost \$15.00; student passes \$7.50.

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

Table 463.-- MEANS OF TRANSPORTATION TO WORK AND PRIVATE VEHICLE OCCUPANCY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Workers 16 years and over .....	457,717	36,868	369,523	81	17,827	33,418
Car, truck or van .....	359,207	31,950	282,479	51	16,033	28,694
Drive alone .....	253,168	24,552	195,727	45	12,135	20,709
Carpool .....	106,039	7,398	86,752	6	3,898	7,985
Public transportation .....	38,100	571	37,042	-	37	450
Walked only .....	37,112	2,195	31,069	30	1,011	2,807
Other means .....	14,445	779	12,553	-	406	707
Worked at home .....	8,853	1,373	6,380	-	340	760
Persons per private vehicle .....	1.20	1.15	1.21	...	1.17	1.20

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Estimates of Social, Economic, and Housing Characteristics, PHC80-S2-13 (September 1982), table P-2.

Table 464.-- STEAM RAILROAD MILEAGE AND PASSENGERS:  
1977 TO 1982

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

Calendar year	Miles of track	Passengers
1977 .....	6	85,933
1978 .....	6	94,115
1979 .....	6	103,206
1980 .....	6	111,600
1981 .....	6	125,640
1982 .....	6	155,059

Source: Lahaina, Kaanapali and Pacific Rail Road,  
data submitted February 5, 1983.

Table 465.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:  
DECEMBER 31, 1982

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

1/ Excludes private airports (not available). Changes since 1981 reflect the reclassification of Hana and Kalaupapa Airports from commercial to general aviation and the abandonment of the French Frigate Shoals airstrip.

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

Source: Hawaii State Department of Transportation, Airports Division, information provided January 6, 1983.

Table 466.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:  
1972 TO 1982

[An aircraft operation is an aircraft arrival or  
departure.]

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport	Lihue Airport
1972 1/ .....	297,861	50,333	75,482	43,316
1973 T/ .....	309,144	48,138	74,443	57,649
1974 T/ .....	305,724	47,715	74,883	50,821
1975 T/ .....	319,776	51,145	77,062	53,356
1976 .....	320,565	52,679	90,455	58,865
1977 .....	329,926	60,377	100,655	65,636
1978 .....	379,106	52,677	125,291	74,583
1979 .....	412,739	51,703	127,477	71,033
1980 .....	375,408	49,969	111,573	62,829
1981 .....	339,359	53,274	102,760	59,404
1982 .....	308,728	47,964	112,428	65,305

1/ Revised from Data Book 1982, table 420.

Source: Hawaii State Department of Transportation, Airports  
Division, Airport Statistics for 1982, Statewide Airport System  
(February 1983), pp. 20, 33, 37, and 42.

Table 467.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE  
OWNED AIRPORTS: 1982

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	308,728	128,558	70,574	80,737	28,859
Gen. Lyman .....	47,964	13,550	4,682	17,793	11,939
Kahului .....	112,428	49,494	28,350	24,538	10,046
Lihue .....	65,305	16,214	35,559	12,082	1,450
Keahole .....	51,889	13,945	15,112	14,392	8,440
Molokai .....	69,142	6,563	43,963	14,203	4,413

Source: Hawaii State Department of Transportation, Airports Division,  
Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3.

Table 468.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN:  
1976 TO 1981

Year	U.S. active civil aircraft, Dec.		Hours flown by general aviation aircraft <u>1/</u>		
	Air carrier <u>2/</u>	General aviation <u>1/</u>		Number (1,000)	Standard error (1,000)
		Number	Standard error		
1976 .....	21	365	...	...	...
1977 .....	21	541	255	182	92
1978 .....	18	475	262	202	128
1979 .....	19	530	130	255	76
1980 .....	17	385	123	157	66
1981 .....	18	623	181	288	131

1/ For aircraft based in Hawaii. Data for 1977 and later years based on samples with specified standard errors. The number of general aviation aircraft actually registered in Hawaii as of December 31, 1977, was 446.

2/ Aloha and Hawaiian.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.



Table 469.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS,  
AND NONPILOT AIRMEN IN THE PACIFIC REGION:  
1976 TO 1981

[As of December 31. Data prior to 1981 include American Samoa, Guam, Northern Mariana Islands, and Trust Territory of the Pacific Islands, as well as Hawaii. Data for 1981 are limited to Hawaii.]

Year	Active pilots	Active flight instructors	Active nonpilot airmen <u>1/</u>
1976 .....	3,037	195	2,516
1977 .....	3,241	207	2,660
1978 .....	3,586	256	2,797
1979 .....	3,972	280	2,897
1980 .....	3,948	314	3,003
1981 .....	3,532	276	2,965

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

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 470.-- TRANSPACIFIC AIRLINES SERVING HAWAII:  
JUNE 30, 1982 AND 1983

Category	1982	1983
Total .....	27	31
Domestic airlines .....	15	18
Foreign airlines .....	12	13

Source: Hawaii Visitors Bureau, Research Department, data provided June 30, 1982 and July 5, 1983.

Table 471.-- TRANSPACIFIC AND INTERISLAND AIR  
PASSENGER MOVEMENTS: 1972 TO 1982

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

Year	Transpacific passengers			Inter- island passenger arrivals <sup>1/</sup>
	Arrivals	Departures	Through	
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

<sup>1/</sup> Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), pp. 3-7, and earlier tabular releases and records.

Table 472.-- SEATS, PASSENGERS, AND LOAD FACTORS FOR SCHEDULED  
FLIGHTS BETWEEN HAWAII AND THE MAINLAND: 1971 TO 1981

[Based on data for eight airlines.]

Year	Revenue seats available	Revenue passengers	Load factor (percent)
1971 .....	6,164,106	2,944,928	47.8
1972 .....	6,158,548	3,364,482	54.6
1973 .....	6,683,587	3,671,587	54.9
1974 .....	6,052,217	3,749,743	62.0
1975 .....	6,388,777	3,800,808	59.5
1976 .....	6,660,621	4,324,093	64.9
1977 .....	7,342,217	4,597,979	62.6
1978 .....	7,355,562	5,307,306	72.2
1979 .....	7,475,246	5,642,474	75.5
1980 .....	7,431,600	5,109,531	68.8
1981 .....	7,314,063	5,080,049	69.4

Source: Data compiled by the Hawaii Visitors Bureau from  
Aviation Daily magazine.

Table 473.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:  
1980 TO 1982

Subject	1980	1981	1982
Number of airlines <u>1/</u> .....	2	2	2
Aircraft revenue departures <u>2/</u> (1,000) .....	77.8	73.4	71.8
Aircraft revenue miles <u>2/</u> (1,000) .....	9,229	8,843	8,678
Average airborne speed <u>2/</u> (miles per hour) ..	318	321	310
Average available seats per aircraft mile flown <u>2/</u> .....	131.0	133.7	134.6
Revenue passengers: <u>2/</u>			
Enplanements (1,000) .....	5,981	5,531	5,596
Load factor (percent) .....	63.7	60.7	63.0
Revenue ton-miles (1,000): <u>2/</u>			
Freight .....	2,544	1,993	1,816
Mail .....	977	1,019	1,089
Number of employees <u>3/</u> .....	2,689	2,203	1,882
Operating revenues (\$1,000) .....	180,498	183,987	176,375
Operating profit or loss (\$1,000) .....	2,944	-5,554	-6,317
Average passenger revenues per revenue passenger-mile <u>2/</u> (cents) .....	22.6	23.8	22.6
Average freight revenues per revenue ton-mile <u>2/</u> (dollars) .....	2.06	2.58	2.96

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

2/ Scheduled service only.

3/ December data.

Source: Civil Aeronautics Board, CAB Form 41 schedules submitted by air carriers to CAB.

Table 474.-- AIR CARGO AND AIRMAIL: 1972 TO 1982

[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland <sup>1/</sup>	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1972 <sup>2/</sup> ...	55,908	108,178	16,665	22,739	59,900	14,774
1973 .....	57,494	87,834	16,123	21,001	69,710	16,453
1974 .....	79,054	96,393	16,185	21,528	79,576	16,594
1975 .....	95,287	112,338		36,934	81,515	17,830
1976 .....	118,478	136,017		39,407	86,818	19,024
1977 .....	132,401	133,352		36,938	82,676	17,065
1978 .....	139,004	135,347		37,061	82,872	15,199
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

<sup>1/</sup> Air taxi service seriously underreported before 1977.

<sup>2/</sup> Data reflect the shipping strikes of January 17 - February 19, and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3, and tabular releases and records.

Table 475.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1982

Airport	Passengers <sup>1/</sup>		Cargo (tons)		Mail (tons)	
	Out-going	In-coming	Out-going	In-coming	Out-going	In-coming
<b>OVERSEAS</b>						
Total .....	4,641,716	4,669,747	77,639	52,694	10,640	12,503
Honolulu .....	4,585,094	4,607,145	75,446	51,670	10,563	12,503
General Lyman ...	46,533	51,114	2,193	1,024	77	-
Kahului .....	10,089	11,488	-	-	-	-
<b>INTERISLAND</b>						
Total .....	7,327,447	7,327,447	57,019	57,019	7,507	7,507
Honolulu .....	3,207,960	3,210,556	31,426	22,127	4,462	2,985
General Lyman ...	477,813	530,506	14,884	7,547	1,187	1,219
Upolu .....	785	847	-	-	-	-
Waimea-Kohala ...	4,263	4,578	-	-	-	-
Keahole .....	601,014	549,604	3,270	4,056	393	668
Kahului .....	1,767,925	1,767,876	3,871	14,775	966	1,583
Hana .....	10,300	9,903	-	-	-	-
Kaanapali .....	56,464	53,732	-	-	-	-
Molokai .....	123,230	126,403	319	444	45	158
Kalaupapa .....	3,113	3,037	26	88	-	-
Lanai .....	22,052	22,111	30	118	3	-
Lihue .....	1,044,519	1,040,537	3,193	7,864	451	894
Other airports ..	8,009	7,757	-	-	-	-

<sup>1/</sup> Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (882,832), all through Honolulu International Airport.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1982, Statewide Airport System (February 1983), p. 3.

Table 476.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1982

[Year ended December 31, 1982. 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-Los Angeles .....	2,569	10	1,035	3	2,664,260
Honolulu-Kahului .....	100	17	845	398	84,683
Honolulu-Lihue .....	102	26	707	443	74,549
Honolulu-Hilo .....	216	45	517	291	114,308
Honolulu-San Francisco .....	2,397	54	475	12	1,152,791
Honolulu-Kona .....	169	76	383	480	68,645
Honolulu-New York .....	4,973	105	307	7	1,544,386
Honolulu-Seattle .....	2,679	180	192	39	535,689
Kahului-Los Angeles .....	2,499	235	148	58	392,648
Honolulu-Chicago .....	4,251	250	142	34	611,275
Honolulu-Oakland .....	2,409	288	123	85	298,046
Honolulu-San Diego .....	2,614	301	115	82	305,593
Honolulu-Las Vegas .....	2,762	356	98	95	276,875
Honolulu-Dallas-Fort Worth ....	3,784	377	92	68	354,622
Honolulu-Philadelphia .....	4,924	393	89	48	442,646
Honolulu-Washington, D.C. ....	4,828	637	56	99	272,810

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: Civil Aeronautics Board, Domestic Origin-Destination Survey of Airline Passenger Traffic, calendar year 1982.

Table 477.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1983

Subject	Effective date of change in fare					
	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981	June 17, 1981
First class, F <u>1/</u> .....	319.13	351.14	365.11	384.12	415.12	425.13
Fare .....	316.00	348.00	365.00	384.00	415.00	425.00
Tax .....	3.13	3.14	0.11	0.12	.12	.13
Coach, weekend, YW <u>1/</u> .	221.09	243.10	252.08	265.08	286.09	296.09
Fare .....	218.00	240.00	252.00	265.00	286.00	296.00
Tax .....	3.09	3.10	0.08	0.08	0.09	0.09
Coach, weekday, YX <u>1/</u> .	211.08	233.09	252.08	265.08	286.09	296.09
Fare .....	208.00	230.00	252.00	265.00	286.00	296.00
Tax .....	3.08	3.09	0.08	0.08	.09	.09
Aircraft .....	B-747	B-747	B-747	B-747	B-747	B-747
Flight time <u>2/</u> .....	5:02	5:02	5.02	5:02	5:02	5:02
	Oct. 1, 1981	Mar. 1, 1981	Apr. 1, 1982	June 1, 1982	Sept. 1, 1982	June 15, 1983
First class, F <u>1/</u> .....	392.12	412.12	412.12	412.12	415.16	415.16
Fare .....	392.00	412.00	412.00	412.00	412.00	412.00
Tax .....	.12	.12	.12	.12	3.16	3.16
Coach, weekend, YW <u>1/</u> .	280.08	219.07	310.09	328.10	331.13	353.14
Fare .....	280.00	219.00	310.00	328.00	328.00	350.00
Tax .....	.08	.07	.09	.10	3.13	3.14
Coach, weekday, YX <u>1/</u> .	280.08	219.07	310.09	328.10	331.13	353.14
Fare .....	280.00	219.00	310.00	328.00	328.00	350.00
Tax .....	.08	.08	.09	.10	3.13	3.14
Aircraft .....	B-747	B-747	B-747	B-747	B-747	B-747
Flight time <u>2/</u> .....	5:00	5:00	5:00	5:00	5:00	5:00

1/ Total regular one-way fare, including taxes, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: United Airlines, printed schedules and records.



Table 478.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1983

Subject	Effective date of change in fare					
	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981	May 1, 1981	Oct 15, 1981	May 1, 1982
HONOLULU - HILO						
Total one-way fare <u>1/</u>	56.00	59.00	61.00	63.00	53.00	56.00
Fare .....	51.85	56.19	58.10	60.00	50.48	53.33
Tax .....	4.15	2.81	2.90	3.00	2.52	2.67
Aircraft <u>2/</u> .....	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare <u>1/</u>	44.00	47.00	49.00	51.00	43.00	46.00
Fare .....	40.74	44.76	46.67	48.57	40.95	43.81
Tax .....	3.26	2.24	2.33	2.43	2.05	2.19
Aircraft <u>2/</u> .....	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare <u>1/</u>	44.00	47.00	49.00	51.00	43.00	46.00
Fare .....	40.74	44.76	46.67	48.57	40.95	43.81
Tax .....	3.26	2.24	2.33	2.43	2.05	2.19
Aircraft <u>2/</u> .....	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:26	0:26	0:26	0:26	0:26	0:26

Continued on next page.

Table 478.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1983 -- Con.

Subject	Effective date of change in fare					
	Jun. 1, 1982	Aug. 1, 1982	Sept. 1, 1982	Jan. 1, 1983	Feb. 1, 1983	July 1, 1983
HONOLULU - HILO						
Total one-way fare <u>1/</u>	58.00	63.00	65.00	65.00	45.00	49.95
Fare .....	55.24	60.00	60.19	60.19	41.67	46.25
Tax .....	2.76	3.00	4.81	4.81	3.33	3.70
Aircraft <u>2/</u> .....	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare <u>1/</u>	48.00	53.00	54.50	54.50	45.00	49.95
Fare .....	45.71	50.48	50.46	50.46	41.67	46.25
Tax .....	2.29	2.52	4.04	4.04	3.33	3.70
Aircraft <u>2/</u> .....	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare <u>1/</u>	48.00	53.00	54.50	54.50	45.00	49.95
Fare .....	45.71	50.48	50.46	50.46	41.67	46.25
Tax .....	2.29	2.52	4.04	4.04	3.33	3.70
Aircraft <u>2/</u> .....	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80	DC-9-80
Flight time <u>2/</u> .....	0:26	0:26	0:26	0:26	0:26	0:26

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

2/ For fastest scheduled flights on this route. Flight time is average scheduled flight time eastbound and westbound, in hours and minutes

Source: Hawaiian Airlines, printed schedules and records.

Table 479.-- STATE COMMERCIAL HARBORS: 1983

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	2,613	64	341
Kawaihae .....	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului .....	35	35	1,450	2,000	2,794	122	638
Molokai:							
Kaunakakai ....	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main .....	45	40	3,300	1,520	19,255	2,132	6,554
Kapalama ....		40	3,400	1,000			
Kauai:							
Nawiliwili ....	40	35	1,950	1,540	1,140	69	73
Port Allen ....	35	35	1,500	1,200	1,092	24	33

Source: Hawaii State Department of Transportation, Harbors Division, data supplied March 23, 1983.

Table 480.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:  
1973 TO 1983

Year	Documented vessels <u>1/</u>		Numbered vessels <u>2/</u>	
	Date	Number	Date	Number
1973 .....	June 30	692	Dec. 31	12,049
1974 .....	Aug. 22	707	Dec. 31	11,843
1975 .....	Sept. 1	797	Dec. 31	12,956
1976 .....	Dec.	802	Dec. 31	13,130
1977 .....	Dec. 7	924	Dec. 31	13,165
1978 .....	Dec. 31	987	Dec. 31	13,695
1979 .....	Dec. 31	996	Dec. 31	13,678
1980 .....	Dec. 31	1,143	Dec. 31	13,459
1981 .....	June 30	1,141	Dec. 31	13,405
1982 .....	June 30	1,225	Dec. 31	12,999
1983 .....	June 30	1,300	...	...

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.

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.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 481.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1982

Subject	Number	Subject	Number
Certificates outstanding .	12,999	Type of vessel: <u>1/</u>	
Length: <u>1/</u>		Cabin motorboat .....	1,830
Under 16 feet .....	5,001	Open motorboat .....	4,987
16 to less than 26 feet .....	6,661	Runabout .....	2,866
26 to less than 40 feet .....	1,118	Sail/inboard .....	573
40 to 65 feet .....	196	Sail/outboard .....	677
Over 65 feet .....	7	Sail only .....	1,435
Median (feet) .....	18.2	Motor vessel over 65 feet ..	6
		Other .....	609
Hull materials: <u>1/</u>		Uses:	
Wood .....	2,208	Pleasure .....	11,319
Steel .....	28	Commercial fishing .....	1,157
Aluminum .....	430	Charter fishing .....	18
Plastic .....	9,845	Commercial passenger .....	76
Other .....	472	Other commercial .....	37
Propulsion: <u>1/</u>		Livery .....	92
Inboard .....	847	Dealers or manufacturers ..	20
Outboard .....	7,209	Youth group .....	26
Inboard/outboard .....	1,993	Government .....	193
Sail/inboard .....	574	Other .....	61
Sail/outboard .....	622	Island kept: <u>1/</u>	
Sail only .....	1,460	Hawaii .....	1,770
Other .....	278	Kauai .....	980
Type of storage: <u>1/</u>		Lanai .....	53
On water .....	2,646	Maui .....	890
On land .....	10,337	Molokai .....	200
		Oahu .....	9,090

1/ Data exclude 16 dealer registrations.

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

Table 482.-- BOATING ACCIDENTS: 1977 TO 1982

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1977 .....	57	1	1	6	63	284.0
1978 .....	74	7	12	5	87	603.2
1979 .....	59	3	7	9	66	429.2
1980 .....	71	1	1	8	86	917.6
1981 .....	43	-	-	5	52	404.5
1982 .....	60	6	8	4	77	1,082.2

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

Table 483.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1972 TO 1982

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1972 .....	1,847	15,267,302	3,096	1,875,681
1973 .....	1,801	14,373,090	3,602	2,185,872
1974 .....	1,587	13,465,620	3,666	2,879,354
1975 .....	1,602	13,025,705	3,440	2,411,933
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

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

Table 484.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1980

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel		
		Self propelled vessels		
		Passenger and dry cargo	Tanker	Towboat or tugboat
All spec. harbors ..	10,096	3,624	203	3,373
Hilo .....	710	129	18	297
Kawaihae .....	298	14	3	167
Kahului .....	928	125	22	380
Kaunakakai .....	650	-	-	335
Kalaupapa .....	10	-	-	6
Honolulu .....	6,537	3,230	67	1,716
Barbers Point .....	342	71	80	164
Nawiliwili .....	469	54	10	213
Port Allen .....	152	1	3	95
Harbor	By type of ves- sel -- con.		By draft	
	Non-self propelled vessels		18 feet and less	19 feet and more
	Dry cargo	Tanker		
All spec. harbors ..	2,664	232	(NA)	(NA)
Hilo .....	236	30	636	74
Kawaihae .....	108	6	282	16
Kahului .....	361	40	787	141
Kaunakakai .....	313	2	(NA)	(NA)
Kalaupapa .....	4	-	10	-
Honolulu .....	1,420	104	5,818	719
Barbers Point .....	1	26	263	79
Nawiliwili .....	169	23	405	64
Port Allen .....	52	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers,  
Waterborne Commerce of the United States, Calendar Year 1980, Part 4  
(1982), pp. 105-106.

Table 485.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1981

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel		
		Self propelled vessels		
		Passenger and dry cargo	Tanker	Towboat or tugboat
All spec. harbors ..	9,156	1,978	191	3,243
Hilo .....	857	129	18	298
Kawaihae .....	334	6	4	135
Kahului .....	1,080	103	16	384
Kaunakakai .....	735	-	-	370
Kalaupapa .....	7	-	-	6
Honolulu .....	5,357	1,685	60	1,708
Barbers Point .....	224	5	86	101
Nawiliwili .....	488	49	7	203
Port Allen .....	74	1	-	38
Harbor	By type of ves- sel -- con.		By draft	
	Non-self propelled vessels		18 feet and less	19 feet and more
	Dry cargo	Tanker		
All spec. harbors ..	3,209	535	(NA)	(NA)
Hilo .....	333	79	810	47
Kawaihae .....	179	10	326	8
Kahului .....	478	99	938	142
Kaunakakai .....	346	19	(NA)	(NA)
Kalaupapa .....	1	-	7	-
Honolulu .....	1,647	257	4,688	669
Barbers Point .....	3	29	140	84
Nawiliwili .....	211	18	469	19
Port Allen .....	11	24	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1981, Part 4 (1983), pp. 101-102.



Table 486.-- TRANSPACIFIC AND INTERISLAND SURFACE  
PASSENGER MOVEMENTS: 1973 TO 1983

[Data limited to revenue passengers.]

Year	Transpacific passengers <sup>1/</sup> (years ended June 30)			Inter- island passenger arrivals <sup>2/</sup> (calendar years)
	Arrivals	Departures	Through	
1973 ...	9,742	7,585	(NA)	-
1974 ...	5,756	5,975	(NA)	-
1975 ...	5,795	5,284	(NA)	71,807
1976 ...	5,829	5,987	(NA)	196,366
1977 ...	5,940	5,476	(NA)	270,128
1978 ...	4,763	4,151	(NA)	11,000
1979 ...	551	318	11,536	-
1980 ...	399	353	11,421	15,763
1981 ...	616	604	10,214	33,108
1982 ...	542	461	6,785	39,057
1983 ...	741	741	8,419	(NA)

NA Not available.

<sup>1/</sup> Data limited to the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the Mariposa and Monterey on April 2, 1978.

<sup>2/</sup> Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. Interisland cruise ship service was begun June 21, 1980. The 1978 figure is an estimate based on the daily average for 1977.

Source: Transpacific passengers, 1979 and later years, from TheoDavies Marine Agencies, Inc., records; interisland passengers, 1980 and later years, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 487.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:  
1970 TO 1981

Subject and year	Hilo	Kawaihae	Kahului	Hono- lulu <u>1/</u>	Barbers Point	Nawiliwili
<b>FREIGHT TRAFFIC <u>2/</u> (SHORT TONS)</b>						
1970 .....	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971 .....	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972 .....	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973 .....	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
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
<b>PASSENGERS <u>3/</u></b>						
1970 .....	4,457	-	-	690,906	-	4,228
1971 .....	2,148	-	-	518,603	-	1,683
1972 .....	658	-	-	796,694	-	658
1973 .....	-	-	-	989,100	-	-
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	-	-

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 1981, Part 4, pp. 29-34.

Table 488.-- OVERSEAS AND INTERISLAND SHIPPING: 1970 TO 1980

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,644,459	9,544,639	3,099,820	4,542,491	2,274,346	2,268,145
1978 1/.	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	3,273,740
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

1/ Corrected from Data Book 1982, table 442.

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual), and printouts.

Table 489.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1980

[In short tons.]

Harbor and commodity <u>1/</u>	Total	Foreign		Interstate <u>2/</u>	
		Imports	Exports	Receipts	Shipments
Hilo .....	1,102,019	25,304	41,777	102,364	220,987
Sugar .....	188,882	-	-	-	188,837
Fabricated metal products ....	168,697	-	-	1,055	4
Kawaihae .....	518,116	408	66,585	365	187,247
Sugar .....	165,763	-	-	-	165,763
Kahului .....	1,441,524	31,916	46,278	49,638	317,522
Sugar .....	270,645	-	5	-	269,672
Fabricated metal products ....	256,423	358	-	1,341	4
Honolulu .....	7,646,270	1,174,591	112,181	2,504,772	865,181
Fresh fruits, tree nuts .....	303,352	1,071	2,361	21,580	56,744
Fresh and frozen vegetables ..	155,896	252	185	86,331	290
Prep. fruit, veg. juice .....	404,961	2,292	2,129	8,285	285,020
Molasses .....	175,423	-	-	-	120,853
Alcoholic beverages .....	187,279	2,227	1,597	158,660	634
Lumber .....	201,261	3,649	1,821	164,480	3,994
Gasoline .....	1,083,466	772,932	13,810	76,655	53,122
Residence fuel oil .....	227,810	33,395	-	109,266	69,563
Fabricated metal products ....	759,922	7,579	326	36,232	1,863
Motor vehicles, parts, equip.	480,535	34,943	127	61,655	25,632
Barbers Point .....	5,725,722	2,700,105	77,742	2,774,551	138,740
Crude petroleum .....	3,322,373	911,926	-	2,410,447	-
Gasoline .....	733,476	705,410	1,658	1,831	16,304
Distilled fuel oil .....	384,416	241,540	75,366	51,632	11,737
Residual fuel oil .....	947,661	650,568	-	297,093	-
Nawiliwili .....	785,212	10,548	25,538	6,927	171,417
Sugar .....	163,424	-	-	-	162,968
Fabricated metal products ....	207,057	-	-	472	-
Kailua .....	9	(NA)	(NA)	(NA)	(NA)
Hana .....	5	(NA)	(NA)	(NA)	(NA)
Kaunakakai .....	182,926	(NA)	(NA)	(NA)	(NA)
Kalaupapa .....	1,281	(NA)	(NA)	(NA)	(NA)
Port Allen .....	58,437	(NA)	(NA)	9,964	(NA)
Pearl Harbor .....	(NA)	(NA)	(NA)	(NA)	44,945
Kaunapau .....	(NA)	(NA)	(NA)	(NA)	(NA)

Continued on next page.

Table 489.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1980 -- Con.

[In short tons.]

Harbor and commodity <u>1/</u>	Interisland <u>2/</u>		Internal receipts	Local
	Receipts	Shipments		
Hilo .....	544,567	166,698	322	-
Sugar .....	23	22	-	-
Fabricated metal products ....	110,261	57,377	-	-
Kawaihae .....	180,218	83,239	54	-
Sugar .....	-	-	-	-
Kahului .....	704,300	291,804	66	-
Sugar .....	766	202	-	-
Fabricated metal products ....	211,076	43,644	-	-
Honolulu .....	1,014,472	1,971,722	343	3,008
Fresh fruits, tree nuts .....	220,091	1,505	-	-
Fresh and frozen vegetables ..	57,639	11,199	-	-
Prep. fruit, veg. juice .....	106,046	1,189	-	-
Molasses .....	54,570	-	-	-
Alcoholic beverages .....	7	24,154	-	-
Lumber .....	3,322	23,995	-	-
Gasoline .....	8,157	157,513	-	1,277
Residence fuel oil .....	-	15,586	-	-
Fabricated metal products ....	199,207	514,715	-	-
Motor vehicles, parts, equip.	121,844	236,334	-	-
Barbers Point .....	8,480	26,104	-	-
Crude petroleum .....	-	-	-	-
Gasoline .....	116	8,157	-	-
Distilled fuel oil .....	250	3,891	-	-
Residual fuel oil .....	-	-	-	-
Nawiliwili .....	420,320	150,071	391	(NA)
Sugar .....	6	450	-	(NA)
Fabricated metal products ....	137,815	68,770	-	(NA)
Kailua .....	-	-	(NA)	(NA)
Hana .....	-	-	(NA)	(NA)
Kaunakakai .....	75,002	107,915	(NA)	(NA)
Kalaupapa .....	937	344	(NA)	(NA)
Port Allen .....	26,146	7,591	(NA)	(NA)
Pearl Harbor .....	1,880	792	(NA)	(NA)
Kaunapau .....	41,154	205,716	(NA)	(NA)

NA Not available.

1/ Commodities under 150,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1980, pp. 29-35, and unpublished printouts.