

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 431,000 in 1971 to 649,000 in 1981. Vehicle miles rose during the same period from 3.7 billion to 5.9 billion. Hawaii residents purchased 37,000 new passenger cars in 1980 and scrapped or shipped out approximately 33,000. By the end of 1981, 541,000 licensed drivers had access to 4,004 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 73.5 million in 1981. Registered bicycles numbered 108,000 in 1974 and 69,000 in 1981.

Most scheduled interisland travel is now by air. In 1981, the two major airlines and a number of air taxis reported 6.7 million interisland passengers, about two times their 1971 total, and carried 66,000 tons of cargo. The State has 10 commercial airports, 14 general aviation, military or semi-private airports, 12 civilian heliports, 3,948 active pilots, and about 385 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 23-year span from 224,000 to 4.3 million. Overseas cargo received in the State in 1979 amounted to 61,000 tons by air and 9.3 million tons by ship.

Undocumented State-registered vessels as of December 31, 1981 numbered 13,405, compared with 8,803 in 1971. Median length was 18 feet, and four-fifths were stored on land. There were also 1,141 documented vessels in the State in 1981, almost double the 1971 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions and Motor Vehicle Safety Office. 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 Services, 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: 1981, Sections 22 and 23.

Table 394.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1981

Island	Total ^{1/}	Paved	Unpaved
State total	4,003.55	3,698.02	310.53
Hawaii	1,556.05	1,401.30	154.75
Maui	601.82	531.41	70.41
Lanai	45.83	31.83	14.00
Molokai	127.12	115.12	12.00
Oahu	1,335.26	1,298.66	36.60
Kauai	342.47	319.70	22.77
Niihau	-	-	-

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

Source: Hawaii State Department of Transportation, data provided April 14, 1982.

Table 395.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1981

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 14, 1982.

Table 396.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1981

[Differences between these data and the data for December 31, 1980 in the 1981 edition, table 385, reflect revised measurements rather than any actual changes in tunnel lengths during the year.]

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 14, 1982.

Table 397.-- 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 398.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1971 TO 1981

[Taxable and non-taxable, including military non-resident exempt vehicles. Data for 1971-1978 have been revised from the 1979 edition, table 280.]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Pas-senger vehicles <u>1/</u>	Ambu-lances, hearses, patrol wagons	Buses
1971	443,563	431,419	371,705	100	1,154
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

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters <u>2/</u>	
1971	46,168	1,629	774	9,889	12,144
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

Footnotes and source on next page.

Table 398.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1971 TO 1981 -- 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 399.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1971 TO 1981

[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
1971	431,419	338,219	42,227	19,592	31,381
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 <u>1/</u> ...	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

1/ Corrected from 1980 edition, table 343.

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

Table 400.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:
1971 TO 1981

[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
1971	371,705	296,985	33,490	15,784	25,446
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 <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

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.

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

Table 401.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1981
 [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	667,019	486,778	79,839	34,920	65,482
Motor vehicles	649,350	476,995	75,812	32,932	63,611
Passenger vehicles <u>1/</u>	541,932	409,305	57,397	25,363	49,867
Ambulances <u>2/</u>	88	69	10	6	3
Buses	3,577	2,686	324	198	369
Trucks <u>1/</u> , <u>3/</u>	90,954	55,207	16,588	6,880	12,279
Truck tractors <u>4/</u>	1,641	886	399	136	220
Truck cranes <u>5/</u>	458	195	131	43	89
Motorcycles <u>6/</u>	10,700	8,647	963	306	784
Trailers and semi-trailers ..	17,669	9,783	4,027	1,988	1,871

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/ Includes 112 unknown types of freight vehicles, most of which are probably trucks -- 57 in Honolulu, 17 in Hawaii, 9 in Kauai, and 29 in Maui.

4/ Including tow trucks.

5/ Including miscellaneous vehicles.

6/ 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 402.-- VEHICLES AVAILABLE TO HOUSEHOLDS:
1960 TO 1980

Vehicles available <u>1/</u>	1960	1970	1980
All households	153,012	203,089	294,052
None	25,871	22,170	31,631
1	88,320	93,854	112,787
2	32,577	69,343	95,845
3 or more	6,244	17,722	53,789

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, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 71.

Table 403.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS:
1980 AND 1981

[As of December 31.]

Island	Taxis		Bicycles	
	1980 <u>1/</u>	1981	1980	1981 <u>2/</u>
State total	1,450	1,605	70,680	69,328
Hawaii	66	66	2,702	3,549
Maui	114	111	2,254	2,232
Lanai	2	2	140	132
Molokai	2	-	167	198
Oahu	1,229	1,381	64,112	61,783
Kauai	37	45	1,305	1,434
Niihau	-	-	-	-

1/ Revised from 1981 edition, table 395.

2/ Oahu figure includes 7,353 motorized and 54,430 non-motorized vehicles.

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

Table 404.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE
REGISTRATION: 1971 TO 1981

Year	Number of passenger vehicles			Out-shipments of automob- iles and auto parts (tons)
	Net increase since pre- vious year	New cars registered	Scrapped or shipped out	
1971 ..	16,128	35,984	19,856	16,157
1972 ..	18,357	37,484	19,127	14,394
1973 ..	23,777	41,919	18,142	16,420
1974 ..	6,389	30,932	24,543	31,423
1975 ..	9,815	33,693	23,878	21,396
1976 ..	22,573	38,006	15,433	18,627
1977 ..	22,752	44,482	21,730	24,846
1978 ..	14,510	44,383	29,873	19,255
1979 ..	20,475	40,481	20,006	22,163
1980 ..	4,316	37,104	32,788	(NA)
1981 ..	27,263	(NA)	(NA)	(NA)

NA Not available.

Source: Net increase from Hawaii State Department of Transportation, Motor Vehicle Safety Office, records. New cars registered from R. L. Polk & Co. data for 1971-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and 1979 and 1980 in MVMA Motor Vehicle Facts & Figures '81, p. 15. Vehicles scrapped or shipped out of State computed as a residual. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 405.-- NEW PASSENGER CARS AND MOTOR TRUCKS
REGISTERED: 1979 AND 1980

Year	Total	Passenger cars	Motor trucks
1979	48,371	40,481	7,890
1980	46,664	37,104	9,560

Source: R.L. Polk & Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts & Figures '81 (1981), p. 15.

Table 406.-- NEW PASSENGER CAR REGISTRATIONS, BY ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF HONOLULU: 1979 TO 1981

Origin and make of vehicle	1979	1980	1981
Total	36,245	31,934	32,037
Domestic <u>1/</u>	18,801	12,334	13,298
Buick	1,397	1,218	1,210
Chevrolet	4,278	2,469	2,551
Dodge	1,255	410	647
Ford	5,391	3,297	3,895
Mercury	1,478	885	1,866
Oldsmobile	955	699	595
Plymouth	1,008	1,103	678
Pontiac	1,324	828	811
Other makes	1,715	1,425	1,045
Foreign <u>1/</u>	17,444	19,600	18,739
Datsun	3,460	3,881	3,160
Honda	2,403	2,678	3,661
Mazda	2,382	3,370	2,819
Subaru	616	1,147	1,200
Toyota	4,318	5,435	5,319
Volkswagen	2,553	1,680	1,075
Other makes	1,712	1,409	1,505

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

Source: Cardinal Mailing Services, Ltd., records.

Table 407-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1981

[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 <u>1/</u>	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

1/ Revised from 1980 edition, table 348.

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

Table 408.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1971 TO 1981

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>
1971	261,476	615	3,660.7	8,609
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

Footnotes and source follow next table.

Table 409.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
BY COUNTIES: 1981

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 ..	319,588	492	5,855.7	9,018
Honolulu	231,224	488	4,165.4	8,797
Hawaii	40,560	527	755.1	9,805
Kauai	16,209	472	355.5	10,361
Maui	31,595	490	579.7	8,987

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 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 410.-- AVERAGE SPEEDS ON HIGHWAYS: 1976 TO 1980

[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

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

Table 411.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA:
OCTOBER 1979 TO SEPTEMBER 1980

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	53.3	54.5	51.6	51.8
85th percentile speed (miles per hour)	60.8	61.6	57.5	58.8
Percent exceeding --				
55 miles per hour	41.9	46.2	25.5	29.4
60 miles per hour	15.9	20.1	6.3	12.4
65 miles per hour	4.8	5.9	1.3	4.0

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1980, p. 163.

Table 412.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND
TRAFFIC DEATHS: 1971 TO 1981

Year	Major traffic accidents ^{1/}		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1971	18,048	131	10,934	154
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

^{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 413.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1981

County	Major traffic accidents ^{1/}		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	16,582	136	11,999	150
Honolulu	12,228	85	8,656	94
Hawaii	1,997	27	1,718	28
Kauai	854	10	534	12
Maui	1,503	14	1,091	16

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

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

Table 414.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1979 TO 1981

[Calendar year data for City and County of Honolulu bus system. Monthly pass program implemented November 1, 1979; figures thereafter are estimates.]

Fare category	1979	1980	1981
All passengers	68,865,260	71,601,744	73,546,802
Adults, full fare	33,007,200	36,799,259	38,743,828
Students	15,815,950	16,765,875	16,483,937
School subsidy	75,172	150,972	209,827
Stadium express	15,795	18,162	16,376
Senior citizens	7,564,150	9,301,724	9,579,937
Chartered service	9,293	10,015	11,131
Free transfers	12,377,700	8,555,737	8,501,766

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

Table 415.-- BUS SERVICE, FOR OAHU: 1970 TO 1981

[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

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) 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 416.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1981

Year	Revenues (dollars)	Cash fares (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD. <u>1/</u>			
1970	4,970,000	25	15
CITY AND COUNTY OF HONOLULU <u>2/</u>			
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>	14,817,639	50	25
1981 <u>4/</u>	18,087,740	50	25

1/ Calendar year data for revenues and December 31 data for cash fares.

2/ Fiscal years ending June 30 for revenues; June 30 data for cash fares.

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 417.-- MEANS OF TRANSPORTATION TO WORK AND
PRIVATE VEHICLE OCCUPANCY: 1980

Subject	Number
Workers 16 years and over	455,887
Car, truck or van	359,361
Drive alone	252,267
Carpool	107,094
Public transportation	38,163
Walked only	35,825
Other means	13,400
Worked at home	9,138
Persons per private vehicle	1.20

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Provisional Estimates of Social, Economic, and Housing Characteristics, PHC80-S1-1 (March 1982), p. 15.

Table 418.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1976 TO 1981

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

Calendar year	Miles of track	Passengers
1976	6	80,362
1977	6	85,933
1978	6	94,115
1979	6	103,206
1980	6	111,600
1981	6	125,640

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

Table 419.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1981

Island	Airports <u>1/</u>				Heliports <u>2/</u>	
	State		Military	Semi-private	State (all commercial)	Semi-private
	Com-mercial	General aviation				
State total	10	4	7	3	2	10
Hawaii	3	1	1	1	-	2
Maui	2	-	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	2	-	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	1	6
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	1	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

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

Source: Hawaii State Department of Transportation, Airports Division, information provided January 15, 1982.

Table 420.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1971 TO 1981

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

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport
1971	294,874	56,167	76,768
1972	297,861	50,333	75,467
1973	309,144	48,138	75,478
1974	305,724	47,715	75,186
1975	319,781	51,145	77,062
1976	320,565	52,679	90,455
1977	329,926	60,377	100,655
1978	379,106	52,677	125,291
1979	412,739	51,703	127,477
1980	375,408	49,969	111,573
1981	339,359	53,274	102,760

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

Table 421.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE
OWNED AIRPORTS: 1981

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	339,359	125,321	73,057	110,416	30,565
Gen. Lyman	53,274	12,501	8,169	22,004	10,600
Kahului	102,760	42,348	28,641	24,984	6,787
Lihue	59,404	20,856	28,063	9,091	1,394
Keahole	57,488	12,681	14,633	22,416	7,758
Molokai	61,876	3,860	44,497	11,013	2,506

Source: Hawaii State Department of Transportation, Airports Division,
information provided February 25, 1982.

Table 422.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN:
1976 TO 1980

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

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 423.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS,
AND NONPILOT AIRMEN IN THE PACIFIC REGION:
1976 TO 1980

[As of December 31. Data include American Samoa, Guam, Northern Mariana Islands, and Trust Territory of the Pacific Islands, as well as 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

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

Source follows next table.

Table 424.-- TRANSPACIFIC AIRLINES SERVING HAWAII:
JUNE 30, 1982

Category	Number
Total	27
Domestic airlines	15
Foreign airlines	12

Source: Hawaii Visitors Bureau, Research Committee, data provided June 30, 1982.

Table 425.-- TRANSPACIFIC AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1971 TO 1981

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

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

1/ Air taxi service was seriously underreported before 1977.

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

Table 426.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1979 TO 1981

Subject	1979	1980	1981
Number of airlines <u>1/</u>	2	2	2
Aircraft revenue departures <u>2/</u> (1,000)	85.8	77.8	73.4
Aircraft revenue miles <u>2/</u> (1,000)	10,303	9,229	8,843
Average airborne speed <u>2/</u> (miles per hour) ..	316	318	321
Average available seats per aircraft mile flown <u>2/</u>	130.4	131.0	133.7
Revenue passengers: <u>2/</u>			
Enplanements (1,000)	6,766	5,981	5,531
Load factor (percent)	65.2	63.7	60.7
Revenue ton-miles (1,000):			
Freight plus express	2,688	2,544	1,993
Mail	1,090	977	1,019
Number of employees <u>3/</u>	2,743	2,689	2,203
Operating revenues (\$1,000)	155,010	180,498	183,987
Operating profit or loss (\$1,000)	2,011	2,944	-5,554
Average passenger revenues per revenue passenger-mile <u>2/</u> (cents)	17.2	22.6	23.8
Average freight revenues per revenue ton-mile <u>2/</u> (dollars)	1.73	2.06	2.58

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 427.-- AIR CARGO AND AIRMAIL: 1971 TO 1981

[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland <u>1/</u>	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1971 <u>2/</u> ...	67,131	116,591	17,915	24,883	51,389	14,332
1972 <u>3/</u> ...	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

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strike of July 1, 1971 - October 6, 1971.

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

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

Table 428.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1980

[This table corrects table 418 in the 1981 edition, which was dated 1980 but actually presented statistics for 1979.]

Airport	Passengers <u>1/</u>		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,270,633	4,174,739	114,673	130,586	19,581	21,105
Honolulu	4,190,060	4,084,416	109,219	117,066	19,581	20,818
Gen. Lyman	80,573	90,323	5,454	13,520	-	287
INTERISLAND						
Total	6,737,894	6,373,894	138,008	138,008	13,576	13,576
Honolulu	2,877,205	2,884,669	47,195	79,198	5,513	7,939
Gen. Lyman	512,022	464,042	25,418	31,151	2,148	1,958
Upolu	962	944	-	-	-	-
Waimea-Kohala ...	10,302	9,341	221	95	-	-
Keahole	537,503	580,910	9,932	5,720	1,251	722
Kahului	1,503,763	1,501,269	35,768	12,672	2,833	1,843
Hana	10,686	10,997	5	3	-	-
Kaanapali	60,872	61,189	-	2	-	-
Molokai	94,865	94,658	1,194	699	347	108
Kalaupapa	2,071	2,150	192	20	-	-
Lanai	21,694	21,858	719	84	14	25
Lihue	1,105,838	1,105,775	17,364	8,357	1,469	980
Other airports ..	111	92	-	8	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,118,987), all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, data supplied April 2, 1981 and monthly tabular release for December 1980.

Table 429.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1981

Airport	Passengers ^{1/}		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,290,752	4,292,159	101,301	151,513	22,388	19,887
Honolulu	4,241,661	4,242,474	98,101	145,736	22,388	19,769
General Lyman ...	49,091	49,685	3,200	5,777	-	118
INTERISLAND						
Total	6,724,113	6,724,113	132,559	132,559	14,131	14,131
Honolulu	2,929,298	2,930,792	52,337	70,729	5,663	8,357
General Lyman ...	488,989	441,836	20,749	36,795	2,254	2,126
Upolu	1,069	1,058	-	-	-	-
Waimea-Kohala ...	5,445	4,853	5	1	-	-
Keahole	505,387	552,494	9,365	7,032	1,292	720
Kahului	1,552,770	1,550,639	31,273	9,212	3,009	1,881
Hana	8,993	9,154	1	5	-	-
Kaanapali	48,486	49,629	-	-	-	-
Molokai	86,025	84,598	1,387	962	406	92
Kalaupapa	1,743	1,738	204	58	-	-
Lanai	21,473	21,670	595	125	5	13
Lihue	1,074,425	1,075,642	16,643	7,640	1,502	942
Other airports ..	10	10	-	-	-	-

^{1/} Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,032,264), all through Honolulu International Airport.

Source: Hawaii State Department of Transportation, Airports Division, information provided February 25, 1982.

Table 430.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1981

[Year ended June 30. 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)	Passenger		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Lihue	102	11	952	306	98,272
Honolulu-Los Angeles	2,569	15	779	4	2,010,245
Honolulu-Kahului	100	19	690	434	69,041
Honolulu-Hilo	216	47	310	310	97,311
Honolulu-San Francisco	2,397	62	367	14	898,106
Honolulu-New York	4,973	177	180	13	908,872
Kahului-Los Angeles	2,499	199	164	40	436,389
Honolulu-Seattle	2,679	223	146	44	404,519
Honolulu-Chicago	4,251	331	99	41	423,851
Lihue-Los Angeles	2,629	339	97	85	260,390
Kahului-San Francisco	2,338	366	91	99	229,768
Honolulu-Las Vegas	2,762	395	86	92	241,295

^{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, Second Quarter 1981.

Table 431.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS
BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1982

Subject	Effective date of change in fare					
	Jan. 1, 1980	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981
First class, F <u>1</u> /	302.12	319.13	351.14	365.11	384.12	415.12
Fare	299.00	316.00	348.00	365.00	384.00	415.00
Tax	3.12	3.13	3.14	0.11	0.12	.12
Coach, weekend, YW <u>1</u> / .	209.08	221.09	243.10	252.08	265.08	286.09
Fare	206.00	218.00	240.00	252.00	265.00	286.00
Tax	3.08	3.09	3.10	0.08	0.08	0.09
Coach, weekday, YX <u>1</u> / .	199.08	211.08	233.09	252.08	265.08	286.09
Fare	196.00	208.00	230.00	252.00	265.00	286.00
Tax	3.08	3.08	3.09	0.08	0.08	.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

Continued on next page.

Table 431.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1982 -- Con.

Subject	Effective date of change in fare					
	June 17, 1981	Oct. 1, 1981	Mar. 1, 1982	Apr. 1, 1982	June 1, 1982	Sept. 1, 1982
First class, F <u>1</u> /	425.13	392.12	412.12	412.12	412.12	415.16
Fare	425.00	392.00	412.00	412.00	412.00	412.00
Tax .....	.13	.12	.12	.12	.12	3.16
Coach, weekend, YW <u>1</u> / .	296.09	280.08	219.07	310.09	328.10	331.13
Fare	296.00	280.00	219.00	310.00	328.00	328.00
Tax	0.09	.08	.07	.09	.10	3.13
Coach, weekday, YX <u>1</u> / .	296.09	280.08	219.07	310.09	328.10	331.13
Fare	296.00	280.00	219.00	310.00	328.00	328.00
Tax .....	.09	.08	.08	.09	.10	3.13
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time <u>2</u> /	5:02	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 432.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1982

Subject	Effective date of change in fare					
	Mar. 1, 1980	May 2, 1980	June 1, 1980	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981
HONOLULU - HILO						
Total one-way fare <u>1/</u>	49.00	50.00	53.00	56.00	59.00	61.00
Fare	45.37	46.30	49.07	51.85	56.19	58.10
Tax	3.63	3.70	3.93	4.15	2.81	2.90
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
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>	38.00	39.00	41.00	44.00	47.00	49.00
Fare	35.19	36.11	37.96	40.74	44.76	46.67
Tax	2.81	2.89	3.04	3.26	2.24	2.33
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
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>	38.00	39.00	41.00	44.00	47.00	49.00
Fare	35.19	36.11	37.96	40.74	44.76	46.67
Tax	2.81	2.89	3.04	3.26	2.24	2.33
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time <u>2/</u>	0:26	0:26	0:26	0:26	0:26	0:26

Continued on next page.

Table 432.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1980 TO 1982 -- Con.

Subject	Effective date of change in fare					
	May 1, 1981	Oct. 15, 1981	May 1, 1982	Jun. 1, 1982	Aug. 1, 1982	Sept. 1, 1982
HONOLULU - HILO						
Total one-way fare <u>1/</u>	63.00	53.00	56.00	58.00	63.00	65.00
Fare	60.00	50.48	53.33	55.24	60.00	60.19
Tax	3.00	2.52	2.67	2.76	3.00	4.81
Aircraft	DC-9-50	<u>3/</u> 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>	51.00	43.00	46.00	48.00	53.00	54.50
Fare	48.57	40.95	43.81	45.71	50.48	50.46
Tax	2.43	2.05	2.19	2.29	2.52	4.04
Aircraft	DC-9-50	<u>3/</u> 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>	51.00	43.00	46.00	48.00	53.00	54.50
Fare	48.57	40.95	43.81	45.71	50.48	50.46
Tax	2.43	2.05	2.19	2.29	2.52	4.04
Aircraft	DC-9-50	<u>3/</u> 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/ Average scheduled flight time eastbound and westbound, in hours and minutes

3/ The first DC-9-80 aircraft was put into service in April 1981.

Source: Hawaiian Airlines, printed schedules and records.

Table 433.-- STATE COMMERCIAL HARBORS: 1982

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 April 24, 1981 and May 18, 1982.

Table 434.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1971 TO 1981

Year	Documented vessels <u>1/</u>		Numbered vessels <u>2/</u>	
	Date	Number	Date	Number
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
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

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.

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 435.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1981

Subject	Number	Subject	Number
Certificates outstanding .	13,405	Type of vessel: <u>1/</u>	
Length: <u>1/</u>		Cabin motorboat	1,911
Under 16 feet	5,166	Open motorboat	5,140
16 to less than 26 feet	6,861	Runabout	2,967
26 to less than 40 feet	1,131	Sail/inboard	587
40 to 65 feet	207	Sail/outboard	696
Over 65 feet	7	Sail only	1,510
Hull materials: <u>1/</u>		Motor vessel over 65 feet .	6
Wood	2,398	Other	555
Steel	33	Uses:	
Aluminum	428	Pleasure	11,734
Plastic	10,062	Commercial fishing	1,119
Other	451	Charter fishing	19
Propulsion: <u>1/</u>		Commercial passenger	70
Inboard	908	Other commercial	39
Outboard	7,390	Livery	105
Inboard/outboard	2,048	Dealers or manufacturers ..	34
Sail/inboard	598	Youth group	25
Sail/outboard	639	Government	205
Sail only	1,530	Other	55
Other	265	Island kept: <u>1/</u>	
Type of storage: <u>1/</u>		Hawaii	1,824
On water	2,785	Kauai	1,029
On land	10,587	Lanai	51
		Maui	920
		Molokai	230
		Oahu	9,316

1/ Data exclude 33 dealer registrations.

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

Table 436.-- BOATING ACCIDENTS: 1976 TO 1981

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1976	51	2	2	5	57	221.5
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

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

Table 437.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1971 TO 1981

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1971	1,879	15,629,860	3,356	2,339,132
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

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

Table 438.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1979

[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 ..	10,686	3,662	226	4,041
Hilo	692	134	15	263
Kawaihae	286	17	1	164
Kahului	989	149	15	401
Kaunakakai	646	-	-	362
Kalaupapa	4	-	-	3
Honolulu	6,860	3,156	87	2,189
Barbers Point	691	139	101	413
Nawiliwili	380	63	4	160
Port Allen	138	4	3	86
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 ..	2,491	266	(NA)	(NA)
Hilo	247	33	612	80
Kawaihae	99	5	270	16
Kahului	376	48	791	198
Kaunakakai	282	2	(NA)	(NA)
Kalaupapa	1	-	4	-
Honolulu	1,311	117	6,071	789
Barbers Point	-	38	593	98
Nawiliwili	130	23	341	39
Port Allen	45	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers,
Waterborne Commerce of the United States, Calendar Year 1979, Part 4,
pp. 105-106.

Table 439.-- TRANSPACIFIC AND INTERISLAND SURFACE
PASSENGER MOVEMENTS: 1972 TO 1982

[Data limited to revenue passengers.]

Year	Transpacific passengers ^{1/} (years ended June 30)			Inter- island passenger arrivals ^{2/} (calendar years)
	Arrivals	Depar- tures	Through	
1972 ...	10,725	8,820	(NA)	-
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	(NA)

NA Not available.

^{1/} 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.

^{2/} 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 1981, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 440.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:
1970 TO 1980

Subject and year	Hilo	Kawaihae	Kahului	Hono- lulu <u>1/</u>	Barbers Point	Nawiliwili
FREIGHT TRAFFIC <u>2/</u> (SHORT TONS)						
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
PASSENGERS <u>3/</u>						
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	-	-

1/ For discussion of the accuracy of these data, see the following table.

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

3/ Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1980, Part 4, pp. 29-34.

Table 441.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR AND KEWALO BASIN: 1978

Harbor and trip category	Total	Arrivals	Departures
HONOLULU HARBOR <u>1/</u>			
Total	183,721	89,305	94,416
To or from other countries	12,617	3,729	8,888
To or from other States	4,026	2,130	1,896
To or from U.S. territories	-	-	-
Interisland <u>2/</u>	167,078	83,446	83,632
Local <u>3/</u>	-	-	-
KEWALO BASIN			
Total	1,580,806	790,403	790,403
Overseas	-	-	-
Interisland <u>2/</u>	1,580,806	790,403	790,403
Local <u>3/</u>	-	-	-

1/ According to the Waterborne Commerce Statistics Center, the source for these data, the 1976 data for Honolulu Harbor (reported in The State of Hawaii Data Book 1978, table 322) "incorrectly credited Honolulu Harbor, Oahu, with passenger traffic which should have been credited to Kewalo Basin, Oahu. In addition, these improper credits to Honolulu Harbor were doubled because the origin and destination data were incorrectly reported by the operators on the VORs (Vessel Operation Reports). The incorrect data contained in the CY 1976 VORs was corrected in CY 1977 thus reflecting a significant reduction in passenger totals for Honolulu Harbor, Oahu, in CY 1977 and a significant increase in passenger totals for Kewalo Basin, Oahu, in CY 1977. The passenger totals for CY 1976, 1977 and 1978 are further distorted by the fact that there are at least two water carriers that did not report passenger traffic for those years." The 1977 data for Honolulu Harbor were published in the 1979 edition, table 309, and the 1980 edition, table 377. These errors also affect the trend data for Honolulu Harbor presented in the preceding table and its earlier counterparts (for example, table 429 in the 1981 edition).

2/ Commercial interisland service was suspended from January 15, 1978 to June 21, 1980. It appears that local passenger traffic was misclassified as interisland during 1978.

3/ Chiefly Pearl Harbor tours. According to the U.S. Navy, civilian boats carried 537,671 passengers to or around the U.S.S. Arizona Memorial during 1978. All local passenger traffic appears to have been misclassified as interisland for this table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce Statistics Center, letter dated August 26, 1980.

Table 442.-- OVERSEAS AND INTERISLAND SHIPPING: 1969 TO 1979

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1969 ...	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
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 ...	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	2,273,740
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685

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).

Table 443.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1979

[In short tons.]

Harbor and commodity <u>1/</u>	Total	Foreign		Interstate <u>2/</u>	
		Imports	Exports	Receipts	Shipments
Hilo	1,220,438	19,506	51,928	143,686	233,057
Sugar	215,046	-	-	2,093	205,815
Kawaihae	447,521	-	54,809	3,963	191,261
Kahului	1,473,307	30,051	32,374	98,371	251,204
Sugar	205,826	-	4	-	204,587
Honolulu	7,463,663	1,097,881	106,299	2,443,830	942,479
Fresh fruits, tree nuts	280,594	1,086	1,427	21,296	56,020
Prep. fruit, veg. juice	441,038	1,881	2,404	6,520	338,380
Molasses	266,177	-	-	-	159,671
Gasoline	1,001,286	735,442	10,608	57,936	6,418
Residual fuel oil	344,434	62,493	-	157,389	51,221
Fabricated metal products	596,604	10,154	277	35,128	9,066
Motor vehicles, parts, equip.	529,823	25,653	329	83,667	19,407
Barbers Point	6,154,541	2,772,710	47,206	2,675,151	546,812
Crude petroleum	3,060,400	801,988	-	2,258,412	-
Gasoline	597,432	551,664	-	-	45,768
Distillate fuel oil	547,230	382,687	21,786	-	89,850
Residual fuel oil	1,601,281	714,021	25,418	416,739	411,194
Nawiliwili	757,899	5,754	-	3,594	255,539
Sugar	245,534	-	-	-	245,457
Kailua	24	(NA)	(NA)	(NA)	(NA)
Hana	15	(NA)	(NA)	(NA)	(NA)
Kaunakakai	192,307	(NA)	(NA)	-	-
Kalaupapa	435	-	-	-	-
Port Allen	110,677	(NA)	(NA)	25,108	-
Pearl Harbor	(NA)	(NA)	(NA)	37,957	80,183
Kaumalapau	(NA)	(NA)	(NA)	-	-

Continued on next page.

Table 443.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1979 -- Con.

[In short tons.]

Harbor and commodity <u>1/</u>	Interisland <u>2/</u>		Internal receipts	Local
	Receipts	Shipments		
Hilo	601,418	170,561	282	-
Sugar	219	6,919	-	-
Kawaihae	119,837	77,621	30	-
Kahului	749,794	311,442	71	-
Sugar	1,164	71	-	-
Honolulu	962,159	1,897,759	716	12,540
Fresh fruits, tree nuts	191,773	8,992	-	-
Prep. fruit, veg. juice	90,787	1,066	-	-
Molasses	106,506	-	-	-
Gasoline	-	181,779	-	9,103
Residual fuel oil	33,909	39,422	-	-
Fabricated metal products	150,303	391,676	-	-
Motor vehicles, parts, equip.	140,774	259,993	-	-
Barbers Point	5,567	107,095	-	-
Crude petroleum	-	-	-	-
Gasoline	-	-	-	-
Distillate fuel oil	46	52,861	-	-
Residual fuel oil	-	33,909	-	-
Nawiliwili	359,199	131,672	66	2,075
Sugar	77	-	-	-
Kailua	(NA)	(NA)	(NA)	(NA)
Hana	(NA)	(NA)	(NA)	(NA)
Kaunakakai	89,256	103,042	(NA)	(NA)
Kalaupapa	324	111	-	-
Port Allen	35,867	21,477	(NA)	(NA)
Pearl Harbor	1,012	5,472	(NA)	(NA)
Kaumalapau	51,837	142,818	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 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 1979, pp. 29-35, and unpublished printouts.