

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 354,000 in 1968 to 477,000 in 1973 and 580,000 in 1978. Vehicle miles rose during the same period from 2.9 billion to 4.7 billion. Hawaii residents purchased 46,000 new passenger cars in 1978 and scrapped or shipped out approximately 34,000. By the end of 1978, 541,000 licensed drivers had access to 3,862 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 67.7 million in 1978. Registered bicycles numbered 108,000 in 1974 and 81,000 in 1978.

All scheduled interisland travel is now by air. Interisland steamer service was discontinued in 1949; hydrofoil service was initiated between Honolulu and other Island ports in 1975 and suspended early in 1978. In 1978, the two scheduled airlines and a number of air taxis reported 7.3 million interisland passengers, more than three times their 1968 total, and carried 41,000 tons of cargo. The State has 11 commercial airports, 49 general aviation, military or private airports, 14 civilian heliports, 3,586 active pilots, and 541 active civil aircraft.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 4,800 in 1978, air passengers increased during the same 19-year span from 224,000 to 9.04 million. Overseas cargo received in the State in 1977 amounted to 66,000 tons by air and 9.5 million tons by ship.

Undocumented State-registered vessels as of December 31, 1978 numbered 13,695, compared with 8,042 in 1970. Median length was 17-1/2 feet, and four-fifths were stored on land. There were also 987 documented vessels in the State in 1978, almost double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Land, Water, and Air Transportation Facilities Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, Honolulu Department of Transportation 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: 1978, Sections 22 and 23.

Table 278.-- MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1970 TO 1978

Year (December 31)	Total	Paved	Unpaved
1970	3,529.10	3,047.10	482.00
1971	3,598.95	3,098.51	500.44
1972	3,611.48	3,117.38	494.10
1973	3,665.84	3,171.58	494.26
1974	3,659.44	3,269.83	389.61
1975	3,743.44	3,354.59	388.85
1976	3,797.24	3,436.53	360.71
1977	3,827.65	3,505.89	321.76
1978 <u>1/</u>	3,862.43	3,540.67	321.76
ISLAND: 1978			
Hawaii	1,450.98	1,291.29	159.69
Maui	583.90	507.15	76.75
Lanai	45.79	31.79	14.00
Molokai	125.40	113.40	12.00
Oahu	1,322.88	1,286.40	36.48
Kauai	333.48	310.64	22.84
Niihau	-	-	-

1/ Includes 36.27 miles of freeways (all on Oahu) and 11,220 feet of highway tunnel (10,903 on Oahu and 317 on Maui, counting each bore separately).

Source: Hawaii State Department of Transportation, Division of Land Transportation Facilities, records.

Table 279.-- SIGNALIZED INTERSECTIONS AND METERED
PARKING SPACES, BY ISLANDS: DECEMBER 31, 1977

Island	Signalized inter- sections	Metered parking spaces	
		On- street	Off- street
State total	523	3,542	4,092
Hawaii	28	534	409
Maui	13	-	26
Lanai	-	-	-
Molokai	-	-	18
Oahu	477	3,008	3,568
Kauai	5	-	71
Niihau	-	-	-

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 280.— MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES: 1968 TO 1978

Year	Motor vehicle registration <u>1/</u>			Highway fuel consumption <u>2/</u>		Vehicle miles of travel <u>3/</u>	
	Total	Passenger cars	Other motor vehicles <u>4/</u>	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	476,759	416,663	60,096	289,847	608	4,057.9	8,511
1974 <u>5/</u> ...	487,647	423,642	64,005	279,996	574	3,919.9	8,038
1975 <u>5/</u> ...	501,783	434,088	67,695	296,160	590	4,146.2	8,263
1976 <u>5/</u> ...	536,514	462,685	73,829	308,151	574	4,314.1	8,041
1977 <u>5/</u> ...	561,575	484,224	77,351	324,449	578	4,542.3	8,088
1978 <u>5/</u> ...	580,347	495,845	84,502	338,440	583	4,738.2	8,164

1/ Taxable and non-taxable. Excludes military vehicles, motorcycles, motor scooters, trailers, and semi-trailers.

2/ Includes gasoline, diesel oil, and butane gas.

3/ Based on an average of 14 miles per gallon.

4/ Ambulances and hearses, buses, trucks, and tractor-trucks.

5/ Adjusted to include vehicles operated by members of the armed forces in Hawaii but registered elsewhere.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, annual releases and records.

Table 281.-- VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE,
BY COUNTIES: 1978

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total <u>1/</u> ..	580,347	432,954	62,937	28,080	56,376
Passenger cars	495,845	380,311	48,364	22,148	45,022
Ambulances and hearses	86	57	13	8	8
Buses	2,952	2,251	285	130	286
Trucks	79,607	49,300	13,659	5,789	10,859
Tractor-trucks	1,857	1,035	616	5	201
Other motor vehicles	-	-	-	-	-
Other vehicles registered: <u>1/</u>					
Trailers and semi-trailers	16,192	9,512	3,169	1,857	1,654
Motorcycles and motor scooters	9,851	8,177	616	284	774
Highway fuel consumption (1,000 gal.).	338,440	251,583	39,744	15,601	31,512
Per motor vehicle (gallons)	583	581	631	556	559
Vehicle miles (millions)	4,738.2	3,522.2	556.4	218.4	441.2
Per vehicle (miles)	8,164	8,135	8,841	7,778	7,826
Drivers licenses in force, Dec. 31 ...	541,036	419,850	53,479	24,370	43,337

1/ Taxable and non-taxable. Includes vehicles operated by members of the armed forces in Hawaii but registered elsewhere.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records.

Table 282.-- TAXIS IN OPERATION, BY ISLANDS: 1977 AND 1978

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1977	1,821	63	98	2	3	1,609	46
1978	1,771	63	99	1	3	1,563	42

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

Table 283.-- REGISTERED BICYCLES, BY ISLANDS: 1977 AND 1978

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1977	84,148	2,815	3,169	171	167	75,276	2,550
1978	81,377	2,899	2,493	182	137	73,426	2,240

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

Table 284.-- COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE
REGISTRATION: 1970 TO 1978

Year	Number of passenger cars			Out-ship- ments of automobiles and auto parts (tons)
	Net in- crease <u>1/</u>	New regis- trations	Scrapped or shipped out	
1970	26,042	36,627	10,585	11,050
1971	16,950	35,984	19,034	16,157
1972	16,974	37,484	20,510	14,394
1973	24,484	41,919	17,435	16,420
1974	6,979	30,932	23,953	31,423
1975	10,446	33,693	23,247	21,396
1976	28,597	38,006	9,409	18,627
1977	21,539	44,482	22,943	24,846
1978	11,621	45,993	34,372	(NA)

NA Not available.

1/ From previous registration year.

Source: Net increase from Hawaii State Department of Transportation, Land Transportation Facilities Division. New registrations from R. L. Polk & Co. data in the Federal Reserve Bank of San Francisco, Western Economic Indicators (bimonthly) and data from Cardinal Mailing Services, Ltd., in this section. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual). Vehicles scrapped or shipped out computed as a residual.

Table 285.— NEW PASSENGER CAR AND TRUCK REGISTRATIONS, DOMESTIC AND FOREIGN,
BY COUNTIES: 1978

Kind, origin and make of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Passenger cars	45,993	34,720	4,519	1,665	5,089
Domestic <u>1/</u>	25,978	19,525	2,717	1,022	2,714
Buick	1,603	1,374	67	37	125
Chevrolet	5,886	4,630	614	179	463
Dodge	2,889	1,588	559	271	471
Ford	6,737	5,433	518	179	607
Mercury	1,766	1,423	167	74	102
Oldsmobile	1,260	1,031	78	23	128
Plymouth	1,800	1,204	258	92	246
Pontiac	1,538	1,382	51	30	75
Other makes <u>2/</u>	2,499	1,460	405	137	497
Foreign <u>1/</u>	20,015	15,195	1,802	643	2,375
Datsun	4,151	2,982	141	125	903
Honda	2,460	2,051	109	116	184
Mazda	1,987	1,545	216	62	164
Toyota	5,308	3,863	953	131	361
Volkswagen	3,456	2,637	209	149	461
Other makes <u>2/</u>	2,653	2,117	174	60	302
Trucks	7,024	4,560	1,056	341	1,067
Domestic <u>1/</u>	4,591	2,946	759	213	673
Chevrolet	1,800	1,270	236	88	206
Ford	1,865	1,186	317	75	287
Other makes <u>2/</u>	926	490	206	50	180
Foreign <u>1/</u>	2,433	1,614	297	128	394
Datsun	1,290	889	143	58	200
Other makes <u>2/</u>	1,143	725	154	70	194

1/ Vehicles manufactured abroad but sold under domestic nameplates (such as the Dodge Colt or Ford Fiesta) are included in the domestic sub-totals.

2/ Under 1,000 Statewide sales.

Source: Motor Vehicle Registrations-Hawaii, A Division of Cardinal Mailing Services, Ltd., release for December 1978.

Table 286.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1970 TO 1978

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1970	18,172	136	11,743	153
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
COUNTIES: 1978				
Honolulu	13,889	100	9,689	108
Hawaii	2,098	37	1,761	44
Kauai	757	12	509	15
Maui	1,801	26	1,368	28

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

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

Table 287.-- BUS SERVICE, FOR OAHU: 1970 TO 1978

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

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Passengers <u>1/</u>	Cash fares, Dec. 31 (cents)	
				Full	School
1970 <u>2/</u>	141	4,611,357	30,434,906	25	15
1971 <u>3/</u>	108	2,986,724	19,413,259	25	10
1972 <u>4/</u>	143	4,964,044	31,031,764	25/50	10/25
1973 <u>5/</u>	315	7,973,393	36,741,009	25/50	10/25
1974 <u>6/</u>	333	11,670,774	50,519,626	25	10
1975	350	13,328,501	58,295,732	25	10
1976	350	15,547,127	64,585,334	25	10
1977	350	16,242,537	66,311,882	25	10
1978	350	15,991,798	67,746,396	25	10

1/ All categories of service.

2/ Passenger total excludes 2,277,502 zone fares. Under HRT, service was limited largely to Honolulu and Halawa. Service was suspended during a one-day strike in August 1970.

3/ Bus service by HRT was terminated by a strike that began January 1, 1971. MTL commenced service March 1, 1971, with routes extending from Kalihi to Hawaii Kai.

4/ Service provided from Pearl Harbor to Hawaii Kai; extended to Windward Oahu and North Shore on August 13, 1972.

5/ Service extended to Waianae coast in April 1973.

6/ Islandwide service after March 15, 1974, when MTL began operation of Leeward Bus Company lines.

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

Table 288.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1977 AND 1978

[Calendar year data for Mass Transit Lines.]

Fare category	1977	1978
All passengers	66,311,882	67,746,396
Adults, full fare	32,223,015	32,873,747
Students	14,899,375	15,370,817
School subsidy	76,532	62,610
Stadium express	11,575	14,824
Senior citizens	7,337,243	7,461,545
Chartered service	34,428	22,651
Revenue transfers	-	-
Free transfers	11,729,714	11,940,202

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

Table 289.-- BUS REVENUES, FOR OAHU: 1971 TO 1978

[In dollars. Fiscal year data for Mass Transit Lines.]

Year	Total revenue	Farebox	Miscellaneous
1971 <u>1/</u>	\$1,246,351	\$1,241,929	4,422
1972	4,445,817	4,429,757	16,060
1973	5,254,908	5,231,596	23,312
1974	6,807,147	6,786,490	20,657
1975	7,990,505	7,951,162	39,343
1976	9,007,134	8,970,281	36,853
1977	9,629,349	9,554,925	74,424
1978	9,686,876	9,667,813	19,063

1/ March through June.

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

Table 290.-- CHARACTERISTICS OF TRAVEL TO WORK, FOR OAHU: 1976

Major mode of transportation from home to work	Number of workers (thousands)	Median distance from home to work (miles)	Median time taken to get to work (minutes)
All workers	308
Not working at home	298	6.5	21.6
Workers using vehicles	286	7.0	22.2
Auto	230	7.2	21.1
Truck	17	12.6	26.8
Auto or truck	246	7.4	21.4
Drives alone	171	7.3	20.8
Carpool	75	7.7	23.3
Shares driving	15	11.2	26.9
Drives others	29	8.5	25.5
Rides with someone	31	5.5	19.8
Public transportation <u>1/</u> ..	34	4.8	29.0
Bus	34	4.9	29.1
Other means <u>2/</u>	6	3.3	16.4
Bicycle	3
Walks only	12	0.6	9.3
Works at home	4
Not reported	6	5.5	18.2

1/ Includes workers using taxicabs.

2/ Includes workers using motorcycles and all other means not listed.

Source: U.S. Bureau of the Census, "Selected Characteristics of Travel to Work in 20 Metropolitan Areas: 1976," Current Population Reports, Special Studies, Series P-23, No. 72, September 1978.

Table 291.-- RAILROADS: 1977 AND 1978

Calendar year	Number of railroads <u>1/</u>	Miles of track	Passengers
1977	1	6	89,110
1978	1	6	97,873

1/ The only railroad in operation during these years was the Lahaina, Kaanapali & Pacific Railroad on Maui.

Source: Lahaina, Kaanapali & Pacific Railroad, records.

Table 292.-- INTERISLAND AND TRANSPACIFIC REVENUE PASSENGERS, BY MODE OF TRAVEL: 1968 TO 1978

Year	Interisland passengers		Transpacific passengers				
	Surface arrivals <u>1/</u>	Air arrivals <u>2/</u>	Surface <u>3/</u>		Air <u>4/</u>		
			Arrivals	Departures	Arrivals	Departures	Through
1968	-	2,347,949	26,603	22,496	1,358,335	1,307,447	183,864
1969	-	2,724,622	24,089	21,339	1,766,720	1,769,087	270,340
1970	-	2,992,777	13,267	13,699	2,190,809	2,158,577	893,890
1971	-	3,380,031	8,943	8,024	2,296,119	2,304,570	729,237
1972	-	4,093,338	10,725	8,820	2,540,472	2,550,199	733,362
1973	-	4,809,097	9,742	7,585	2,866,003	2,913,446	870,378
1974	-	5,174,914	5,756	5,975	3,009,769	2,964,992	885,122
1975	71,807	5,321,616	5,795	5,284	3,181,580	3,134,774	956,576
1976	196,366	5,873,138	5,829	5,987	3,496,645	3,432,908	816,915
1977	270,128	6,413,847	5,940	5,476	3,667,756	3,615,717	714,150
1978	(NA)	7,341,815	4,763	4,151	4,131,466	4,054,544	854,276

NA Not available.

1/ Scheduled interisland passenger service by hydrofoil vessels was begun on June 15, 1975 and terminated January 15, 1978.

2/ Excludes nonrevenue passengers before 1970. Air taxi service seriously underreported before 1977.

3/ Port of Honolulu only. Excludes through passengers. For years ended June 30.

4/ Includes nonrevenue passengers beginning in 1970. Treatment of through passengers was apparently changed after 1959 and again after 1969.

Source: Hawaii State Department of Transportation, records.

Table 293.-- AIRPORTS AND HELIPORTS, BY CONTROL: JUNE 30, 1979

Type	All facilities	State		Military	Semi-private	Private <u>1/</u>
		Commercial	General aviation			
Airports	60	11	3	6	3	37
Heliports.....	14	4	-	(NA)	(NA)	10

NA Not available.

1/ Data for private airports and heliports are estimates.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 294.-- PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1968 TO 1978

Year	Active pilots, Dec. 31 <u>1/</u>	U.S. active civil aircraft, Dec. 31		Aircraft operations <u>2/</u>		
		Air carrier	General aviation	Honolulu International Airport	Gen. Lyman Field, Hilo	Kahului Airport
1968	1,744	22	188	340,079	46,958	72,740
1969	1,976	20	206	339,645	46,339	69,135
1970	2,218	20	241	300,629	52,183	77,451
1971	2,409	17	249	294,874	56,167	76,768
1972	2,526	(NA)	(NA)	297,861	50,333	75,467
1973	2,786	291		309,144	48,138	75,478
1974	2,956	16	308	305,724	47,715	75,186
1975	2,902	17	341	319,781	51,145	77,062
1976	3,037	21	365	320,565	52,679	90,455
1977	3,241	21	*541	329,926	60,377	100,655
1978	3,586	18	(NA)	379,106	52,677	125,291

* Estimated from a sample survey with a standard error of 255.

NA Not available.

1/ Data for 1969, 1971 and 1973-1977 include active pilots in American Samoa, Guam, and the Trust Territory as well as those in Hawaii.

2/ An aircraft operation is an aircraft arrival or departure.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records; Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 295.-- AIRCRAFT OPERATIONS, BY TYPE, FOR SPECIFIED AIRPORTS: 1978

Airport	All operations	Air carrier	Air taxi	General aviation	Military
Honolulu Int. Airport ..	379,106	121,056	85,552	137,593	34,905
Gen. Lyman Field	52,677	20,448	6,582	16,884	8,763
Kahului Airport	125,291	43,052	37,441	37,119	7,679
Lihue Airport	74,583	26,841	27,583	17,449	2,710
Ke-ahole Airport	91,033	16,369	19,740	40,542	14,382
Molokai Airport <u>1/</u>	32,801	1,982	22,864	6,543	1,412

1/ FAA tower opened July 13, 1978.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, "Hawaii State Owned Airport Statistics, Calendar Year 1978" (tabular release).

Table 296.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1968 TO 1978

Subject	1968	1977	1978
Number of airlines <u>1/</u>	2	2	2
Aircraft revenue departures <u>2/</u> (1,000)	69.4	79.5	83.3
Aircraft revenue miles <u>2/</u> (1,000)	8,131	9,624	9,962
Average airborne speed <u>2/</u> (miles per hour) .	257	324	323
Average available seats per aircraft <u>2/</u>	75.8	125.8	128.6
Revenue passengers: <u>2/</u>			
Emplanements <u>3/</u> (1,000)	1,961	5,724	6,488
Load factor (percent)	51.9	65.9	66.4
Revenue ton-miles (1,000):			
Freight plus express	2,273	6,037	3,832
Mail	894	1,215	1,083
Number of employees <u>4/</u>	1,891	2,444	2,606
Operating revenues (\$1,000)	29,746	129,138	150,543
Operating profit or loss (\$1,000)	-707	990	4,310
Average passenger revenues per revenue passenger-mile <u>2/</u> (cents)	9.1	14.4	16.0
Average freight revenues per revenue ton-mile <u>2/</u> (dollars)	0.69	1.04	1.39

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

2/ Scheduled service only.

3/ Originations for 1968.

4/ December, 1968 and 1977; September, 1978

Source: Civil Aeronautics Board, Handbook of Airline Statistics 1973, and records.

Table 297.-- AIR CARGO AND AIRMAIL: 1970 TO 1978

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland <u>1/</u>	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1970	37,553	54,285	21,362	18,109	52,139	14,141
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

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 strike of January 17 - February 19 and October 25 - December 7, 1972.

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

Table 298.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1978

Airport	Passengers <u>1/</u>		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,131,466	4,054,544	135,347	139,004	37,061	
Honolulu	3,998,692	3,880,091	129,358	111,941	36,743	
Gen. Lyman	124,749	166,428	5,989	27,063	318	
Kahului	8,025	8,025	(NA)	(NA)	(NA)	
INTERISLAND						
Total	7,341,815	7,341,815	82,872	82,872	15,199	15,199
Honolulu	2,931,583	3,039,122	27,244	49,632	4,697	10,295
Gen. Lyman	663,235	538,691	12,443	15,130	2,672	1,660
Upolu	1,263	1,130	-	-	-	-
Waimea-Kohala ...	13,708	11,379	256	501	1	2
Ke-ahole	601,823	651,554	6,114	4,057	1,591	600
Kahului	1,664,373	1,649,418	22,650	9,262	3,408	1,648
Hana	13,422	12,331	-	-	-	-
Kaanapali	56,440	57,043	-	-	-	-
Molokai	144,234	132,438	955	749	423	84
Kalaupapa	5,368	4,634	151	75	21	7
Lanai	26,636	27,751	898	241	151	35
Lihue	1,212,717	1,211,240	12,139	3,220	2,235	868
Other airports ..	7,013	5,084	22	5	-	-

1/ Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (854,276).

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, "Hawaii State Owned Airport Statistics, Calendar Year 1978" (tabular release).

Table 299.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1975

[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 <u>1/</u> (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-Lihue	102	13	573	327	59,881
Honolulu-Hilo	216	19	480	158	113,312
Honolulu-Los Angeles	2,556	21	477	5	1,235,464
Honolulu-Kahului	100	23	449	434	44,944
Honolulu-San Francisco	2,397	46	290	11	711,593
Honolulu-Kona	169	75	214	516	37,583
Honolulu-Seattle	2,678	151	134	30	367,548
Honolulu-New York	4,973	200	109	14	547,454
Honolulu-Chicago	4,251	220	101	23	435,012
Kahului-Los Angeles	2,486	230	95	58	255,312
Lihue-Los Angeles	2,628	286	79	72	212,994
Honolulu-San Diego	2,614	374	62	99	165,295
Honolulu-Washington	4,833	669	36	94	177,899
Honolulu-Boston	5,095	738	32	97	167,155

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, Supplement to the Handbook of Airline Statistics, Calendar Years 1975 and 1976, pp. 109-112.

Table 300.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SAN FRANCISCO-HONOLULU FLIGHTS: 1972 TO 1979

[For Pan American World Airways unless otherwise specified]

Subject	Effective date of change in fare				
	July 25, 1972	May 12, 1973	Sept. 1, 1973	June 1, 1974	Jan. 1, 1977
First class fare <u>2/</u>	193.08	193.67	193.67	204.67	208.08
Fare	190.00	190.00	190.00	201.00	205.00
Tax	3.08	3.08	3.08	3.08	3.08
Security charge	-	0.59	0.59	0.59	-
Economy fare, weekends <u>2/</u> ..	125.04	125.63	134.64	142.64	145.06
Fare	122.00	122.00	131.00	139.00	142.00
Tax	3.04	3.04	3.05	3.05	3.06
Security charge	-	0.59	0.59	0.59	-
Economy fare, weekdays <u>2/</u> ..	110.04	110.63	119.63	126.64	129.05
Fare	107.00	107.00	116.00	123.00	126.00
Tax	3.04	3.04	3.04	3.05	3.05
Security charge	-	0.59	0.59	0.59	-
Thrift fare, weekends <u>2/</u> ...	118.04	118.63	127.63	134.64	137.05
Fare	115.00	115.00	124.00	131.00	134.00
Tax	3.04	3.04	3.04	3.05	3.05
Security charge	-	0.59	0.59	0.59	-
Thrift fare, weekdays <u>2/</u> ...	103.04	103.63	112.63	119.63	122.04
Fare	100.00	100.00	109.00	116.00	119.00
Tax	3.04	3.04	3.04	3.04	3.04
Security charge	-	0.59	0.59	0.59	-
Aircraft	B-747	B-747	B-747	B-747	B-747
Flight time <u>3/</u>	5:02	5:02	5:02	4:58	4:58

Continued on next page.

Table 300.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SAN FRANCISCO-HONOLULU FLIGHTS: 1972 TO 1979 -- Con.

[For Pan American World Airways unless otherwise specified]

Subject	Effective date of change in fare				
	June 15, 1977	Nov. 4, 1977	May 1, 1978	Aug. 17, 1978	May 7, 1979 ^{1/}
First Class fare ^{2/}	212.08	200.08	206.08	212.08	225.09
Fare	209.00	197.00	203.00	209.00	222.00
Tax	3.08	3.08	3.08	3.08	3.09
Security charge	-	-	-	-	-
Economy fare, weekends ^{2/} ..	148.06	140.05	144.06	148.06	156.06
Fare	145.00	137.00	141.00	145.00	153.00
Tax	3.06	3.05	3.06	3.06	3.06
Security charge	-	-	-	-	-
Economy fare, weekdays ^{2/} ..	132.05	125.05	129.05	133.05	141.06
Fare	129.00	122.00	126.00	130.00	138.00
Tax	3.05	3.05	3.05	3.05	3.06
Security charge	-	-	-	-	-
Thrift fare, weekends ^{2/} ...	140.05	133.05	137.06	141.05	149.06
Fare	137.00	130.00	134.00	138.00	146.00
Tax	3.05	3.05	3.06	3.05	3.06
Security charge	-	-	-	-	-
Thrift fare, weekdays ^{2/} ...	124.05	118.04	121.04	125.05	134.05
Fare	121.00	115.00	118.00	122.00	131.00
Tax	3.05	3.04	3.04	3.05	3.05
Security charge	-	-	-	-	-
Aircraft	B-747	B-747	B-747	B-747	DC-10
Flight time ^{3/}	4:58	4:58	4:58	5:02	4:55

^{1/} For Western Airlines.

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

^{3/} Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, Chronology of Airline Fares and Flight Times, 1929-1974 (Statistical Report 103, June 18, 1974); Pan American World Airways, printed schedules and records; Western Airlines, printed schedules and records.

Table 301.-- REGULAR ONE-WAY AIR FARES BETWEEN HONOLULU AND
 SELECTED MAINLAND CITIES: JUNE 1979

[Total fares, including taxes, in dollars, by United Airlines.
 These fares were effective May 28, 1979 through July 31, 1979.]

Class	Los Angeles	Denver	Chicago	New York City
First class	239.07	308.93	383.91	443.68
Coach:				
Weekend	166.04	213.77	265.91	307.20
Weekday	151.04	198.43	250.38	291.57
Economy:				
Weekend	159.04	203.54	255.56	...
Weekday	144.04	188.19	240.03	...

Source: United Airlines, District Sales Office, records.

Table 302— REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1977 TO 1979

Subject	Effective date of change in fare				
	Oct. 1, 1977	Apr. 8, 1978	Feb. 15, 1979	June 1, 1979	Aug. 1, 1979
HONOLULU-HILO					
Total one-way fare <u>1</u> /.....	32.00	34.00	35.00	36.00	39.00
Fare	29.63	31.48	32.41	33.33	36.11
Tax	2.37	2.52	2.59	2.67	2.89
Aircraft	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
HONOLULU-MAUI					
Total one-way fare <u>1</u> /.....	25.00	27.00	28.00	29.00	30.00
Fare	23.15	25.00	25.93	26.85	27.78
Tax	1.85	2.00	2.07	2.15	2.22
Aircraft	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
HONOLULU-KAUAI					
Total one-way fare <u>1</u> /.....	25.00	27.00	28.00	29.00	30.00
Fare	23.15	25.00	25.93	26.85	27.78
Tax	1.85	2.00	2.07	2.15	2.22
Aircraft	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

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.

Source: Hawaiian Airlines, printed schedules and records.

Table 303.— STATE COMMERCIAL HARBORS: 1978

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area ^{1/} (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	2,400	2,050	2,317	162	280
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	40	35	3,300	1,520	17,855	2,132	6,554
Kapalama		35	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,324	24	33

^{1/} Revised from 1978 edition, table 316.

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, data supplied March 30, 1979.

Table 304.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1978

Subject	Number	Subject	Number
Certificates outstanding	13,695	Type of vessel: <u>1/</u>	
Length:		Cabin motorboat	1,687
Under 16 feet	5,844	Open motorboat	5,186
16 to less than 26 feet	6,544	Runabout	3,431
26 to less than 40 feet	1,076	Sail/inboard	503
40 to 65 feet	172	Sail/outboard	681
Over 65 feet	8	Sail only	1,553
Dealers or manufacturers	51	Motor vessel over 65 feet	7
Hull materials: <u>1/</u>		Other	596
Wood	2,978	Uses:	
Steel	42	Pleasure	12,192
Aluminum	438	Commercial fishing	929
Plastic	9,736	Charter fishing	21
Other	450	Commercial passenger	54
Propulsion: <u>1/</u>		Other commercial	37
Inboard	876	Livery	71
Outboard	7,940	Dealers or manufacturers	51
Inboard/outboard	1,828	Youth group	46
Sail/inboard	507	Government	232
Sail/outboard	628	Other	62
Sail only	1,595	Island kept: <u>1/</u>	
Other	270	Hawaii	1,713
Type of storage: <u>1/</u>		Kauai	1,022
On water	2,686	Lanai	57
On land	10,958	Maui	834
		Molokai	242
		Oahu	9,776

1/ Excludes dealers and manufacturers (51).

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

Table 305.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1978

Year	Documented vessels <u>1/</u>		Numbered vessels <u>2/</u>	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
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

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 306.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1977 AND 1978

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1977	1,589	12,568,896	2,770	2,249,446
1978	1,651	12,676,469	1,981	1,947,893

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, records.

Table 307.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1977

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels		18 feet and less	19 feet and more
		Pass. and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker		
All spec. harbors .	12,784	5,271	236	4,394	2,569	314	(NA)	(NA)
Hilo	626	109	18	253	220	26	519	107
Kawaihae	263	12	-	146	102	3	251	12
Kahului	938	166	18	357	348	49	811	127
Kaumalapau	523	-	-	260	263	-	523	-
Kaunakakai	1,156	528	-	378	248	2	(NA)	(NA)
Kalaupapa	8	-	-	5	3	-	8	-
Honolulu	7,080	3,461	93	2,170	1,206	150	6,323	757
Barbers Point	1,249	522	102	556	5	64	1,159	90
Nawiliwili	780	458	5	177	120	20	747	33
Port Allen	161	15	-	92	54	-	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1977, Part 4, pp. 105-106.

Table 308.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1977

Subject and year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
FREIGHT TRAFFIC <u>1/</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
PASSENGERS <u>2/</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

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

2/ 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 1977, Part 4, pp. 30-35.

Table 309.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN
AND DESTINATION, FOR HONOLULU HARBOR: 1977

Category	Total	Arrivals	Departures
All passengers	303,291	138,522	164,769
To or from other countries ..	12,581	8,955	3,626
To or from other states	10,070	5,118	4,952
To or from U.S. territories .	202	202	-
Interisland	262,708	115,037	147,671
Pearl Harbor tours and other local	17,730	9,210	8,520

Source: U.S. Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, Waterborne Commerce Statistics Center, records.

Table 310.-- OVERSEAS AND INTERISLAND SHIPPING: 1967 TO 1977

[In revenue tons of 2,000 lb.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1967 ...	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968 ...	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
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 ...	12,647,133	9,545,354	3,101,779	4,542,847	2,274,346	2,268,501

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

Table 311.— FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1977
 [In short tons]

Harbor and commodity <u>1/</u>	Total	Foreign		Interstate <u>2/</u>
		Im-ports	Ex-ports <u>3/</u>	Receipts
Hilo	1,013,430	28,257	-	231,254
Sugar	202,542	-	-	-
Kawaihae	318,197	-	57,801	-
Kahului	1,301,095	26,761	-	136,290
Sugar	238,725	-	-	-
Honolulu	6,881,556	1,059,132	88,795	2,646,314
Fresh fruits and tree nuts	377,443	785	491	34,527
Prep. fruit and veg. juice	545,153	5,272	1,429	9,652
Molasses	254,641	-	-	-
Gasoline	436,456	1,064	16,276	221,916
Kerosene	831,393	750,910	6,458	74,025
Residual fuel oil	238,649	-	-	179,673
Fabricated metal products	483,235	13,906	225	36,974
Motor vehicles, parts, equip.	229,873	25,123	165	101,863
Barbers Point	6,630,994	4,795,447	-	572,669
Crude petroleum	2,488,269	2,479,742	-	8,527
Distillate fuel oil	422,311	271,406	-	-
Residual fuel oil	2,660,364	1,254,748	-	563,861
Coke, pet. asphalts, solvents	529,335	529,335	-	-
Nawiliwili	557,798	11,129	-	4,741
Sugar	228,724	-	-	-
Other harbors <u>4/</u>	532,935	(NA)	(NA)	(NA)

Continued on next page.

Table 31L-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1977 -- Con.
 [In short tons]

Harbor and commodity <u>1/</u>	Interstate -- con. <u>2/</u>	Interisland <u>2/</u>		In- ternal re- ceipts	Local
	Shipments	Re- ceipts	Ship- ments		
Hilo	326,761	355,332	71,563	263	-
Sugar	195,185	37	7,320	-	-
Kawaihae	142,277	68,839	49,239	41	-
Kahului	265,219	619,723	253,070	32	-
Sugar	238,332	274	119	-	-
Honolulu	846,886	844,463	1,347,367	471	48,128
Fresh fruits and tree nuts .	42,686	295,335	3,619	-	-
Prep. fruit and veg. juice .	422,922	97,026	8,852	-	-
Molasses	136,771	98,116	4,805	-	14,949
Gasoline	2,787	48,319	134,995	-	11,099
Kerosene	-	-	-	-	-
Residual fuel oil	536	-	58,440	-	-
Fabricated metal products ..	6,474	112,894	312,762	-	-
Motor vehicles, parts, equip.	20,595	21,284	60,843	-	-
Barbers Point	1,112,480	21,987	128,411	-	-
Crude petroleum	-	-	-	-	-
Distillate fuel oil	133,364	3,357	14,184	-	-
Residual fuel oil	841,755	-	-	-	-
Coke, pet. asphalts, solvents	-	-	-	-	-
Nawiliwili	245,649	214,805	81,412	62	-
Sugar	228,702	22	-	-	-
Other harbors <u>4/</u>	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 tons not shown.

2/ Interstate and interisland data are combined (as "coastwise") in the published reports.

3/ The leading export item in 1977 was wood chips, staves, holdings (38,601 tons, all from Kawaihae).

4/ Includes Hana (2 tons), Kaunalapau (264,525 including 215,334 in fresh fruits and tree nuts), Kaunakakai (171,722), Kalaupapa (937), Kailua (5), and Port Allen (95,744).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1977, Part 4, pp. 30-38, and unpublished printouts.

Table 312.-- BOATING ACCIDENTS: 1977 AND 1978

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured nonfatally		
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2

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