

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 413,000 in 1970 to 506,000 in 1975 and 611,000 in 1979. Vehicle miles rose during the same period from 3.4 billion to 4.8 billion. Hawaii residents purchased 48,000 new passenger cars in 1979 and scrapped or shipped out approximately 21,000. By the end of 1979, 543,000 licensed drivers had access to 3,874 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 68.8 million in 1979. Registered bicycles numbered 108,000 in 1974 and 78,000 in 1979.

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 1979, the two scheduled airlines and a number of air taxis reported 7.6 million interisland passengers, almost three times their 1969 total, and carried 59,000 tons of cargo. The State has 10 commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,972 active pilots, and 18 active civil aircraft operated by air carriers.

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, 1979 numbered 13,678, compared with 8,042 in 1970. Median length was 18 feet, and four-fifths were stored on land. There were also 996 documented vessels in the State in 1979, almost double the 1970 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: 1979, Sections 22 and 23.

Table 340.-- MILEAGE OF STREETS AND HIGHWAYS, PAVED
AND UNPAVED: 1969 TO 1979

Year (December 31)	Total	Paved	Unpaved
1969	3,511.60	3,325.60	186.00
1970 ^{1/}	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	3,862.43	3,540.67	321.76
1979 ^{2/}	3,874.39	3,552.63	321.76
ISLANDS: 1979			
Hawaii (1978) ...	1,450.92	1,291.23	159.69
Maui	588.52	511.77	76.75
Lanai	45.79	31.79	14.00
Molokai	126.01	114.01	12.00
Oahu	1,328.94	1,292.46	36.48
Kauai	334.21	311.37	22.84
Niihau	-	-	-

^{1/} Includes 284.00 miles reclassified from "paved" to "unpaved".

^{2/} 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 Highways, records.

Table 341.-- 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 342.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1979

(Taxable and non-taxable, including military non-resident exempt vehicles. Data for 1970-1978 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
1970	424,409	412,930	355,577	114	1,136
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
Motor vehicles -- continued					
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters <u>2/</u>	Trailers and semi-trailers
1970	38,029	965	6,346	10,763	11,479
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

Footnotes and source on next page.

Table 342.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1979
 -- 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 (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) 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, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 343.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
 1970 TO 1979

(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
1970	412,930	325,834	39,223	18,175	29,698
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	563,964	424,892	60,374	26,920	59,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911

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

Table 344.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:
1970 TO 1979

(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
1970	355,577	285,384	31,293	14,842	24,058
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

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 (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) for comparability with their earlier treatment.

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

Table 345.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1979
 (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	626,841	461,840	71,071	31,370	62,560
Motor vehicles	610,570	452,449	67,718	29,492	60,911
Passenger vehicles <u>1/</u>	510,353	388,788	51,159	22,790	47,616
Ambulances <u>2/</u>	91	66	13	6	6
Buses	3,267	2,392	329	174	372
Trucks <u>1/</u>	84,578	51,698	14,953	6,057	11,870
Truck tractors <u>3/</u>	1,784	986	457	128	213
Truck cranes <u>4/</u>	511	224	132	46	109
Motorcycles <u>5/</u>	9,986	8,295	675	291	725
Trailers and semi-trailers ..	16,271	9,391	3,353'	1,878	1,649

1/ The data for passenger cars have been adjusted to exclude vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles beginning in 1979.

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, as revised by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 346.— INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977

[Figures do not include government-owned vehicles, ambulances, buses, motor homes, farm tractors, open jeep models, unpowered trailer units, and trucks reported to have been junked or wrecked prior to 1977.]

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Total trucks	70.0	100.0
Major use:		
Personal transportation	35.0	50.0
Construction	10.1	14.4
Agriculture	8.2	11.7
Retail and wholesale trade	6.4	9.1
Services	5.5	7.9
Other	4.9	7.0
Body type:		
Pickup	48.4	69.1
Panel or small van	11.2	16.0
Platform	5.1	7.3
Other	5.2	7.4
Vehicle size: <u>1/</u>		
Light (10,000 pounds or fewer)	62.3	89.0
Medium (10,001 to 19,500 pounds)	2.7	3.9
Light-heavy (19,501 to 26,000 pounds) ..	2.1	3.0
Heavy-heavy (26,001 pounds or more)	3.0	4.3
Vehicle acquisition:		
Purchased new	38.2	54.6
Purchased used	29.3	41.9
Leased and not reported	2.4	3.4
Year model:		
1 to 4 years old	22.3	31.9
5 to 8 years old	24.0	34.3
Over 8 years old and not reported	23.7	33.9
Annual miles traveled: <u>2/</u>		
Fewer than 5,000	17.1	24.4
5,000 to 9,999	20.8	29.7
10,000 to 19,999	27.3	39.0
20,000 or more	4.9	7.0
Fuel type:		
Gasoline	66.8	95.4
Diesel	2.9	4.1
LPG or other .....	.3	0.4

Table 346.-- INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977 -- Con.

[Figures do not include government-owned vehicles, ambulances, buses, motor homes, farm tractors, open jeep models, unpowered trailer units, and trucks reported to have been junked or wrecked prior to 1977.]

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Miles per gallon:		
8.9 or fewer	7.1	10.1
9 to 11.9	11.0	15.7
12 to 14.9	18.1	25.9
15 to 19.9	14.3	20.4
20 or more	13.5	19.3
Not reported	5.9	8.4

1/ Gross vehicle weight.

2/ Annual miles traveled were imputed if not reported.

Source: U.S. Department of Commerce, Bureau of the Census, 1977 Census of Transportation: Truck Inventory and Use Survey, Hawaii, TC77-T-12 (September 1979).

Table 347.-- TAXIS IN OPERATION, BY ISLANDS: 1978 AND 1979

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	1,771	63	99	1	3	1,563	42
1979	1,922	66	101	1	3	1,706	45

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

Table 348-- HAWAII DRIVERS LICENSES IN FORCE: 1969 TO 1979

(As of December 31)

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1969 1/	462,502	...	...	...	...
1970	501,177	418,413	35,642	17,378	29,744
1971 1/	523,935	...	...	...	...
1972 1/	510,000	...	...	...	...
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	542,905	418,532	53,706	25,593	45,074

1/ Not available by counties.

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

Table 349.-- REGISTERED BICYCLES, BY ISLANDS: 1978 AND 1979

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	81,377	2,899	2,493	182	137	73,426	2,240
1979	77,979	3,223	2,266	127	112	70,362	1,889

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

Table 350.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE
REGISTRATION: 1971 TO 1979

Year	Number of passenger vehicles <u>1/</u>			Out-shipments of automob- iles and auto parts (tons)
	Net increase since pre- vious year	New cars registered	Scrapped or shipped out	
1971 ..	19,154	35,984	16,830	16,157
1972 ..	24,847	37,484	12,637	14,394
1973 ..	31,115	41,919	10,804	16,420
1974 ..	11,102	30,932	19,830	31,423
1975 ..	11,794	33,693	21,899	21,396
1976 ..	29,017	38,006	8,989	18,627
1977 ..	28,942	44,482	15,540	24,846
1978 ..	19,610	44,383	24,773	(NA)
1979 ..	26,851	48,154	21,303	(NA)

NA Not available.

1/ Revised from The State of Hawaii Data Book 1979,
table 284.

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 data for 1979 from Cardinal Mailing Services, Ltd. 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 351.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, DOMESTIC
AND FOREIGN, BY COUNTIES: 1979

Kind, origin and make of vehicle	State total <u>1/</u>	City and County of Honolulu	County of Hawaii	County of Maui	County of Kauai <u>1/</u>
Passenger cars	48,154	36,245	5,109	6,163	637
Domestic <u>2/</u>	24,798	18,801	2,597	3,004	396
Buick	1,701	1,397	119	148	37
Chevrolet	5,582	4,278	473	678	153
Dodge	1,821	1,255	324	229	13
Ford	6,465	5,391	459	534	81
Mercury	2,289	1,478	391	389	31
Oldsmobile	1,362	955	132	255	20
Plymouth	1,352	1,008	140	201	3
Pontiac	1,504	1,324	72	82	26
Other makes <u>3/</u>	2,722	1,715	487	488	32
Foreign <u>2/</u>	23,356	17,444	2,512	3,159	241
Datsun	5,667	3,460	750	1,410	47
Honda	2,809	2,403	137	236	33
Mazda	2,861	2,382	272	178	29
Toyota	5,710	4,318	934	411	47
Volkswagen	3,367	2,553	204	557	53
Other makes <u>3/</u>	2,942	2,328	215	367	32
Trucks	6,663	3,909	1,316	1,319	119
Domestic <u>2/</u>	4,704	2,824	923	890	67
Chevrolet	1,721	1,080	332	277	32
Ford	1,686	1,039	298	330	19
Other makes <u>3/</u>	1,297	705	293	283	16
Foreign <u>2/</u>	1,959	1,085	393	429	52

1/ Data for County of Kauai only available through the month of April 1980.

2/ Vehicles manufactured abroad but sold under domestic nameplates (such as Dodge Colt or Ford Fiesta) are included in the domestic subtotals.

3/ Under 1,000 statewide sales.

Source: Motor Vehicle Registrations -- Hawaii, a Division of Cardinal Mailing Services, Ltd., records.

Table 352.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1969 TO 1979

Year and county	Highway fuel consumption <u>1/</u>		Vehicle miles of travel <u>2/</u>	
	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1969	225,917	605	3,162.8	8,467
1970	243,482	602	3,408.9	8,428
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
COUNTIES: 1979				
City and Co. of Honolulu ..	249,257	555	3,489.6	7,764
Hawaii County	41,692	617	583.7	8,637
Kauai County	15,963	535	223.5	7,493
Maui County	33,077	545	463.1	7,633

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

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

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

Table 353.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA:
OCTOBER 1977 TO SEPTEMBER 1978

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	54.1	56.3	52.6	52.0
Median speed (miles per hour)	53.9	56.1	52.3	51.8
85th percent speed (miles per hour) ...	59.6	62.4	58.8	58.5
Percent exceeding --				
55 miles per hour	39	54	32	30
60 miles per hour	18	22	12	11
65 miles per hour	3	6	4	4

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1978, p. 49.

Table 354.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND
TRAFFIC DEATHS: 1970 TO 1979

Year	Major traffic accidents ^{1/}		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
1979	19,158	183	13,963	205
COUNTIES: 1979				
Honolulu	14,350	105	10,181	118
Hawaii	2,125	35	1,726	38
Kauai	808	11	570	15
Maui	1,875	32	1,486	34

^{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, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 355.-- BUS SERVICE, FOR OAHU: 1970 TO 1979

(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

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 for 1979. 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: City and County of Honolulu, Department of Transportation Services, records.

Table 356.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU:
1977 TO 1979

(Calendar year data for City and County of Honolulu bus system.)

Fare category	1977	1978	1979 <u>1/</u>
All passengers	66,311,882	67,746,396	68,865,260
Adults, full fare	32,223,015	32,873,747	33,007,200
Students	14,899,375	15,370,817	15,815,950
School subsidy	76,532	62,610	75,172
Stadium express	11,575	14,824	15,795
Senior citizens	7,337,243	7,461,545	7,564,150
Chartered service	34,428	22,651	9,293
Free transfers	11,729,714	11,940,202	12,377,700

1/ Monthly pass program implemented November 1; figures are estimates.

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

Table 357.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1980

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>	(NA)	50	25

NA Not available.

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.

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

Table 358.-- 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 359.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1970 TO 1979

Calendar year	Miles of track	Passengers
1970 <u>1/</u>	6	} 341,882
1971	6	
1972 <u>2/</u>	6	(NA)
1973 <u>3/</u>	6	35,079
1974	6	62,619
1975	6	70,974
1976	6	80,362
1977 <u>4/</u>	6	85,933
1978 <u>4/</u>	6	94,115
1979	6	103,206

NA Not available.

1/ The Lahaina, Kaanapali & Pacific Rail Road commenced service on May 10, 1970. Previously, rail passenger service had been available on Maui until 1936, Hawaii until 1946, and Oahu until 1947.

2/ Service suspended October 10, 1972-June 29, 1973.

3/ Service resumed June 30, 1973.

4/ Revised.

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

Table 360.-- TRANSPACIFIC PASSENGER ARRIVALS AND DEPARTURES, BY
MODE OF TRAVEL: 1969 TO 1980

Year	Surface passengers 1/ (years ended June 30)			Air passengers 2/ (calendar years)		
	Arrivals	Departures	Through	Arrivals	Departures	Through
1969	24,089	21,339	(NA)	1,766,720	1,769,087	270,340
1970	13,267	13,699	(NA)	2,190,809	2,158,577	893,890
1971	8,943	8,024	(NA)	2,296,119	2,304,570	729,237
1972	10,725	8,820	(NA)	2,540,472	2,550,199	733,362
1973	9,742	7,585	(NA)	2,866,003	2,913,446	870,378
1974	5,756	5,975	(NA)	3,009,769	2,964,992	885,122
1975	5,795	5,284	(NA)	3,181,580	3,134,774	956,576
1976	5,829	5,987	(NA)	3,496,645	3,432,908	816,915
1977	5,940	5,476	(NA)	3,667,756	3,615,717	714,150
1978	4,763	4,151	(NA)	4,131,466	4,054,544	854,276
1979	551	318	11,536	4,245,032	4,148,645	971,452
1980	399	353	11,421	(NA)	(NA)	(NA)

NA Not available.

1/ Data limited to revenue passengers at 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/ Includes nonrevenue passengers beginning in 1970. The treatment of through passengers was apparently changed after 1969.

Source: Hawaii State Department of Transportation, Harbors Division, records (for surface passengers, 1978 and earlier years); Davies Marine Agencies, Inc., records (for surface passengers, 1979 and 1980); Hawaii State Department of Transportation, Airports Division, tabular releases and records (for air passengers).

Table 361.-- INTERISLAND PASSENGER ARRIVALS, BY
MODE OF TRAVEL: 1969 TO 1979

Calendar year	Surface arrivals <u>1/</u>	Air arrivals <u>2/</u>
1969	-	2,724,622
1970	-	2,992,777
1971	-	3,380,031
1972	-	4,093,338
1973	-	4,809,097
1974	-	5,174,914
1975	71,807	5,321,616
1976	196,366	5,873,138
1977	270,128	6,413,847
1978	11,000	7,341,815
1979	-	7,578,877

1/ Revenue passengers. Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. The 1978 figure is an estimate based on the daily average for 1977.

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

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

Table 362.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: JUNE 30, 1980

Island	Airports <u>1/</u>				Heliports <u>2/</u>		
	State		Military	Semi-private	State		Semi-private
	Com-mercial	General aviation			Com-mercial	General aviation	
State total	10	4	8	3	2	1	10
Hawaii	3	1	1	1	-	-	2
Maui	2	-	-	1	-	-	2
Kahoolawe	-	-	-	-	-	-	-
Lanai	1	-	-	-	-	-	-
Molokai	2	-	-	-	-	-	-
Oahu	1	2	4	-	1	1	-
Kauai	1	1	1	1	1	-	6
Niihau	-	-	-	-	-	-	-
French Frigate Shoals	-	-	1	-	-	-	-
Kure Atoll	-	-	1	-	-	-	-

1/ Excludes private airports (about 16 on Hawaii, about 7 on Kauai, and not available for most of the other islands).

2/ Excludes military heliports (more than 20 in the State) and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided July 15, 1980.

Table 363.-- AIRCRAFT MOVEMENTS, BY TYPE OF AIRCRAFT, AT STATE OWNED AIRPORTS: 1979

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	412,739	133,653	85,177	162,055	31,854
Gen. Lyman	51,703	17,893	7,021	18,408	8,381
Kahului	127,477	41,400	35,503	44,096	6,478
Lihue	71,033	27,123	25,609	16,371	1,930
Ke-ahole	92,235	15,602	18,088	46,299	12,246
Molokai	72,024	5,137	49,146	14,779	2,962

Source: Hawaii State Department of Transportation, Airports Division.

Table 364.-- PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS:
1969 TO 1979

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	General Lyman Field, Hilo	Kahului Airport
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
1979 ..	3,972	(NA)	(NA)	412,739	51,703	127,477

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

NA Not available.

1/ Data for 1969, 1971 and 1973-1978 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 Transportaion Facilities Division, records.

Table 365.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1969 TO 1979

Subject	1969	1978	1979
Number of airlines <u>1/</u>	2	2	2
Aircraft revenue departures <u>2/</u> (1,000)	76.0	83.3	85.8
Aircraft revenue miles <u>2/</u> (1,000)	8,697	9,962	10,303
Average airborne speed <u>2/</u> (miles per hour) ..	281	323	316
Average available seats <u>2/</u> per aircraft <u>2/</u>	93.7	128.6	130.4
Revenue passengers: <u>2/</u>			
Enplanements (1,000)	2,442	6,488	6,766
Load factor (percent)	42.3	66.4	65.2
Revenue ton-miles (1,000):			
Freight plus express	2,745	3,832	2,688
Mail	920	1,083	1,090
Number of employees <u>3/</u>	2,233	2,606	2,743
Operating revenues (\$1,000)	35,753	150,543	155,010
Operating profit or loss (\$1,000)	-1,654	4,310	2,011
Average passenger revenues per revenue passenger-mile <u>2/</u> (cents)	10.1	16.0	17.2
Average freight revenues per revenue ton-mile <u>2/</u> (dollars)	0.71	1.39	1.73

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

2/ Scheduled service only.

3/ December, 1969 and 1979; September, 1978.

Source: Civil Aeronautics Board, Handbook of Airline Statistics 1973, and CAB Form 41 schedules submitted by air carriers to CAB.

Table 366.-- AIR CARGO AND AIRMAIL: 1970 TO 1979

(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
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
1979	121,702	121,205	17,497	17,577	118,555	15,364

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 367.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1979

Airport	Passengers ^{1/}		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,245,032	4,148,645	121,205	121,702	17,577	17,497
Honolulu	4,152,767	4,022,440	115,818	100,627	17,577	17,147
Gen. Lyman	92,265	126,205	5,387	21,075	-	350
INTERISLAND						
Total	7,578,877	7,578,877	118,555	118,555	15,364	15,364
Honolulu	3,141,669	3,217,841	39,554	70,738	5,120	9,555
Gen. Lyman	624,237	543,020	18,970	23,995	2,728	1,865
Upolu	1,089	1,021	-	-	-	-
Waimea-Kohala ...	13,471	11,661	379	986	-	-
Ke-ahole	618,403	660,309	8,696	4,565	1,593	713
Kahului	1,684,816	1,662,395	33,388	10,366	3,412	1,717
Hana	14,865	15,044	2	1	-	-
Kaanapali	58,901	60,058	-	-	8	-
Molokai	134,925	124,204	1,226	767	404	95
Kalaupapa	4,456	3,853	195	16	18	5
Lanai	25,641	24,833	852	120	45	31
Lihue	1,249,221	1,247,285	15,268	6,990	2,036	1,381
Other airports ..	7,183	7,353	25	11	-	-

^{1/} Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (971,452, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, tabular release and errata sheet.

Table 368.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1978

(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	10	845	317	87,425
Honolulu-Kahului	100	14	734	371	73,557
Honolulu-Los Angeles	2,569	23	549	7	1,421,096
Honolulu-Hilo	216	30	495	238	109,964
Honolulu-San Francisco	2,397	67	315	14	773,967
Honolulu-Kona	169	78	277	555	48,437
Honolulu-Seattle	2,679	180	159	38	440,066
Honolulu-New York	4,973	191	154	13	775,073
Kahului-Los Angeles	2,499	192	153	46	409,580
Honolulu-Chicago	4,251	234	125	27	535,194
Lihue-Los Angeles	2,629	312	96	81	258,467
Kahului-San Francisco	2,338	332	92	96	229,989
Honolulu-Portland	2,603	361	85	95	230,178
Honolulu-Washington	4,833	736	44	100	215,697
Honolulu-Boston	5,095	762	42	98	216,436

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, Vol. XI-4-1, Fourth Quarter 1978.

Table 369.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1978 TO 1980

Subject	Effective date of change in fare					
	May 1, 1978	Aug. 20, 1978	Apr. 16, 1979	Aug. 1, 1979	Aug. 8, 1979	Oct. 1, 1979
First class, F <u>1</u> /	206.08	212.08	225.09	235.09	247.10	270.10
Fare	203.00	209.00	222.00	232.00	244.00	267.00
Tax	3.08	3.08	3.09	3.09	3.10	3.10
Coach, weekend, YW <u>1</u> / ..	144.06	148.06	156.06	163.06	171.06	187.07
Fare	141.00	145.00	153.00	160.00	168.00	184.00
Tax	3.06	3.06	3.06	3.06	3.06	3.07
Coach, weekday, YX <u>1</u> / ..	129.05	133.05	141.05	148.06	156.06	172.06
Fare	126.00	130.00	138.00	145.00	153.00	169.00
Tax	3.05	3.05	3.05	3.06	3.06	3.06
Economy, weekend, KW <u>1</u> /	137.05	141.05	149.06	155.06	163.06	179.07
Fare	134.00	138.00	146.00	152.00	160.00	176.00
Tax	3.05	3.05	3.06	3.06	3.06	3.07
Economy, weekday, KX <u>1</u> /	121.04	126.05	134.05	140.05	148.06	164.06
Fare	118.00	123.00	131.00	137.00	145.00	161.00
Tax	3.04	3.05	3.05	3.05	3.06	3.06
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

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Table 369.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT
TIMES FOR FLIGHT BY UNITED AIRLINES BETWEEN SAN FRANCISCO
AND HONOLULU: 1978 TO 1980 -- Con.

Subject	Effective date of change in fare				
	Nov. 1, 1979	Jan. 1, 1980	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980
First class, F <u>1</u> /	280.11	302.12	319.13	351.14	365.11
Fare	277.00	299.00	316.00	348.00	365.00
Tax	3.11	3.12	3.13	3.14	0.11
Coach, weekend, YW <u>1</u> / .	194.08	209.08	221.09	243.10	252.08
Fare	191.00	206.00	218.00	240.00	252.00
Tax	3.08	3.08	3.09	3.10	0.08
Coach, weekday, YX <u>1</u> / .	184.07	199.08	211.08	233.09	252.08
Fare	181.00	196.00	208.00	230.00	252.00
Tax	3.07	3.08	3.08	3.09	0.08
Economy, weekend, KW <u>1</u> /	186.07	(3/)	(3/)	(3/)	(3/)
Fare	183.00	(3/)	(3/)	(3/)	(3/)
Tax	3.07	(3/)	(3/)	(3/)	(3/)
Economy, weekday, KX <u>1</u> /	176.07	(3/)	(3/)	(3/)	(3/)
Fare	173.00	(3/)	(3/)	(3/)	(3/)
Tax	3.07	(3/)	(3/)	(3/)	(3/)
Aircraft	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

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

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

3/ Economy fares were discontinued effective January 1, 1980.

Source: United Airlines, printed schedules and records.

Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1980

Subject	Effective date of change in fare					
	July 1, 1970	May 12, 1973	Jan. 15, 1974	Jan. 1, 1975	Feb. 1, 1976	Oct. 1, 1977
HONOLULU - HILO						
Total one-way fare <u>1/</u>	26.00	26.64	27.64	28.38	30.00	32.00
Fare	24.07	24.07	25.00	25.93	27.78	29.63
Tax	1.93	1.93	2.00	2.07	2.22	2.37
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time <u>2/</u>	0:42	0:41	0:41	0:41	0:40	0:40
HONOLULU - MAUI						
Total one-way fare <u>1/</u>	19.00	19.64	20.64	21.38	23.00	25.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15
Tax	1.41	1.41	1.48	1.56	1.70	1.85
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time <u>2/</u>	0:28	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare <u>1/</u>	19.00	19.64	20.64	21.38	23.00	25.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15
Tax	1.41	1.41	1.48	1.56	1.70	1.85
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time <u>2/</u>	0:27	0:27	0:27	0:27	0:27	0:26

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Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1980 -- Con.

Subject	Effective date of change in fare					
	Apr. 8, 1978	Feb. 15, 1979	Jun. 1, 1979	Aug. 1, 1979	Sept. 1, 1979	Nov. 1, 1979
HONOLULU - HILO						
Total one-way fare <u>1/</u>	34.00	35.00	36.00	39.00	41.00	42.00
Fare	31.48	32.41	33.33	36.11	37.96	38.89
Tax	2.52	2.59	2.67	2.89	3.04	3.11
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>	27.00	28.00	29.00	30.00	31.00	32.00
Fare	25.00	25.93	26.85	27.78	28.70	29.63
Tax	2.00	2.07	2.15	2.22	2.30	2.37
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>	27.00	28.00	29.00	30.00	31.00	32.00
Fare	25.00	25.93	26.85	27.78	28.70	29.63
Tax	2.00	2.07	2.15	2.22	2.30	2.37
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

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Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1980 -- Con

Subject	Effective date of change in fare					
	Dec. 1, 1979	Jan. 4, 1980	Mar. 1, 1980	May 2, 1980	June 1, 1980	Sept. 1, 1980
HONOLULU - HILO						
Total one-way fare <u>1/</u>	43.00	45.00	49.00	50.00	53.00	56.00
Fare	39.81	41.67	45.37	46.30	49.07	51.85
Tax	3.19	3.33	3.63	3.70	3.93	4.15
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>	33.00	34.00	38.00	39.00	41.00	44.00
Fare	30.56	31.48	35.19	36.11	37.96	40.74
Tax	2.44	2.52	2.81	2.89	3.04	3.26
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>	33.00	34.00	38.00	39.00	41.00	44.00
Fare	30.56	31.48	35.19	36.11	37.96	40.74
Tax	2.44	2.52	2.81	2.89	3.04	3.26
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

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 371.-- STATE COMMERCIAL HARBORS: 1978

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area <u>1/</u> (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 372.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1970 TO 1979

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
1979	Dec. 31	996	Dec. 31	13,678

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 373.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1979

Subject	Number	Subject	Number
Certificates outstanding ...	13,678	Type of vessel:	
Length:		Cabin motorboat	1,832
Under 16 feet	5,609	Open motorboat	5,117
16 to less than 26 feet	6,760	Runabout	3,322
26 to less than 40 feet	1,119	Sail/inboard	532
40 to 65 feet	175	Sail/outboard	684
Over 65 feet	6	Sail only	1,542
Dealers or manufacturers	9	Motor vessel over 65 feet	6
Hull materials: <u>1/</u>		Other	634
Wood	2,762	Dealers or manufacturers	9
Steel	43	Uses:	
Aluminum	461	Pleasure	12,097
Plastic	9,933	Commercial fishing	1,004
Other	470	Charter fishing	24
Propulsion: <u>1/</u>		Commercial passenger	56
Inboard	928	Other commercial	29
Outboard	7,757	Livery	100
Inboard/outboard	1,961	Dealers or manufacturers	9
Sail/inboard	543	Youth group	44
Sail/outboard	627	Government	242
Sail only	1,579	Other	73
Other	274	Island kept: <u>1/</u>	
Type of storage: <u>1/</u>		Hawaii	1,773
On water	2,780	Kauai	1,051
On land	10,889	Lanai	53
		Maui	835
		Molokai	226
		Oahu	9,731

1/ Excludes dealer and manufacturer registrations (9).

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

Table 374.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1968 TO 1979

(Years ended June 30.)

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1968	1,774	15,277,355	2,474	1,413,915
1969	1,903	15,954,257	2,961	2,458,333
1970 1/	1,933	16,053,275	3,321	2,167,733
1971 1/	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

1/ Tonnage estimated.

Source: Hawaii State Department of Transportation, Harbors Division, Shipping Information, 1968, and unpublished data for 1969 and later years.

Table 375.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1978

(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 ..	10,344	3,692	217	3,791
Hilo	672	144	14	265
Kawaihae	269	16	1	144
Kahului	975	153	14	392
Kaunakakai	647	20	-	348
Kalaupapa	7	1	-	3
Honolulu	6,017	2,684	82	1,880
Barbers Point	1,230	579	102	511
Nawiliwili	376	82	3	157
Port Allen	151	13	1	91
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 ..	2,420	224	(NA)	(NA)
Hilo	224	25	570	102
Kawaihae	104	4	252	17
Kahului	382	34	790	185
Kaunakakai	276	3	(NA)	(NA)
Kalaupapa	3	-	7	-
Honolulu	1,271	100	5,215	802
Barbers Point	2	36	1,135	95
Nawiliwili	113	21	348	28
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 1978, Part 4,
pp. 107-108.

Table 376.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:
1970 TO 1978

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
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
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
1978	3,207	-	3,879	183,721	4,441	6,384

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 1978, Part 4, pp. 30-35.

Table 377.-- 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 378.-- 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 379.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS:
1978

(In short tons.)

Harbor and commodity <u>1/</u>	Total	Foreign		Interstate <u>2/</u>
		Imports	Exports	Receipts
Hilo	1,272,734	33,870	22,316	181,714
Sugar	220,679	-	-	7
Motor vehicles	252,797	-	-	4,373
Kawaihae	502,451	460	87,424	2,584
Kahului	1,922,112	25,527	43,150	137,895
Sugar	233,011	-	6	13
Residual fuel oil	210,600	-	-	77,633
Fabricated metal products .	278,660	-	-	877
Motor vehicles	377,132	407	-	1,987
Honolulu	7,750,537	1,153,711	98,051	2,363,551
Prepared fruit juice	448,583	4,017	1,684	8,437
Molasses	256,738	-	-	-
Gasoline	1,131,780	852,100	16,255	138,354
Residual fuel oil	370,891	9,868	-	171,219
Fabricated metal products .	621,468	11,537	985	31,301
Motor vehicles	1,056,611	29,419	643	81,566
Barbers Point	6,306,580	3,870,643	133,076	1,284,031
Crude petroleum	2,311,754	1,661,527	-	650,227
Gasoline	311,750	207,914	-	-
Distillate fuel oil	598,563	479,004	2,700	-
Residual fuel oil	2,259,115	855,013	127,993	632,259
Lubricating oils, greases .	558,820	558,820	-	-
Nawiliwili	765,877	11,153	-	6,960
Sugar	212,175	212,175	-	-
Other harbors <u>3/</u>	269,995	(NA)	(NA)	(NA)

Continued on next page.

Table 379.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS:
1978 -- Con.

(In short tons.)

Harbor and commodity <u>1/</u>	Interstate <u>2/--</u> con.	Interisland <u>2/</u>		Local
	Shipments	Receipts	Shipments	
Hilo	287,308	622,637	124,889	-
Sugar	220,637	35	-	-
Motor vehicles	2,283	222,390	23,751	-
Kawaihae	167,724	153,978	90,281	-
Kahului	277,576	1,069,976	367,968	20
Sugar	232,609	264	119	-
Residual fuel oil	-	132,967	-	-
Fabricated metal products .	59	214,125	63,599	-
Motor vehicles	287	295,993	78,458	-
Honolulu	896,900	886,986	2,341,299	10,039
Prepared fruit juice	330,001	97,870	6,574	-
Molasses	152,558	104,180	-	-
Gasoline	-	6,954	110,193	7,924
Residual fuel oil	-	30,682	159,122	-
Fabricated metal products .	6,926	153,245	417,474	-
Motor vehicles	16,028	152,851	776,104	-
Barbers Point	944,204	4,370	70,256	-
Crude petroleum	-	-	-	-
Gasoline	96,561	1,290	5,985	-
Distillate fuel oil	109,376	-	7,483	-
Residual fuel oil	613,168	-	30,682	-
Lubricating oils, greases .	-	-	-	-
Nawiliwili	226,400	383,971	137,393	-
Sugar	204,837	23	7,315	-
Other harbors <u>3/</u>	(NA)	(NA)	(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.

3/ Kaunakakai (179,223), Kalaupapa (1,438), and Port Allen (89,334).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, pp. 30-37, and unpublished printouts.

Table 380.-- BOATING ACCIDENTS: 1970 TO 1979

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1970	36	1	1	2	44	82.6
1971	15	2	2	-	16	64.8
1972	37	7	9	7	43	254.1
1973	27	1	1	2	30	126.1
1974	63	5	5	3	77	353.3
1975	62	4	4	13	74	228.2
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

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