

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 618,000 in 1980. Vehicle miles rose during the same period from 3.4 billion to 5.6 billion. Hawaii residents purchased 48,000 new passenger cars in 1979 and scrapped or shipped out approximately 28,000. By the end of 1980, 542,000 licensed drivers had access to 3,912 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 71.6 million in 1980. Registered bicycles numbered 108,000 in 1974 and 71,000 in 1980.

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 1980, the two certified airlines and a number of air taxis reported 6.7 million interisland passengers, more than two times their 1970 total, and carried 69,000 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 530 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 400 in 1980, air arrivals increased during the same 21-year span from 224,000 to 4.3 million. Overseas cargo received in the State in 1978 amounted to 68,000 tons by air and 9.1 million tons by ship.

Undocumented State-registered vessels as of December 31, 1980 numbered 13,459, compared with 8,042 in 1970. Median length was 18 feet, and four-fifths were stored on land. There were also 1,143 documented vessels in the State in 1980, more than double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions 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: 1980, Sections 22 and 23.

Table 385.-- LENGTH OF STREETS AND HIGHWAYS, FREEWAYS,
AND HIGHWAY TUNNELS, BY ISLANDS: DECEMBER 31, 1980

Island	Street and highway mileage <u>1/</u>		
	Total	Paved	Unpaved
State total	3,912.12	3,591.06	321.06
Hawaii	1,485.52	1,320.24	165.28
Maui	593.11	522.70	70.41
Lanai	45.83	31.83	14.00
Molokai	126.90	114.90	12.00
Oahu	1,322.27	1,285.67	36.60
Kauai	338.49	315.72	22.77
Niihau	-	-	-

Island	Freeway mileage <u>2/</u>	Lane- miles <u>3/</u>	Tunnel length (feet)
State total	36.27	2,406.79	11,220
Hawaii	-	855.94	-
Maui	-	360.74	317
Lanai	-	25.91	-
Molokai	-	104.55	-
Oahu	36.27	819.98	10,903
Kauai	-	239.67	-
Niihau	-	-	-

1/ Oahu data revised.

2/ Included in street and highway figures.

3/ These lane mileages are only for State routes and Federal-Aid County routes. The lane mileages for the rest of the County routes are not available.

Source: Hawaii State Department of Transportation, data provided May 14, 1981.

Table 386.-- HIGHWAY BRIDGES, BY ISLANDS: 1981

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
Hawaii ...	245	Hakalau	775	Nanue	208
Maui	143	Kalialinui	324	Uaoa	79
Lanai	-	None .....	...	None .....	...
Molokai ..	19	Manawainui	325	Manawainui	50
Oahu	588	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90
Niihau ...	-	None .....	...	None .....	...
		Oldest bridge in use			
Island	Route name	Feature intersected	Year built	Length (feet)	
Hawaii ...	Mamalahoa Hwy. ..	Puuokalepa Stream ..	1904	33	
Maui	Hana Hwy.	Mokulehua Stream ...	1908	48	
Lanai	None	None .....	...	...
Molokai ..	Maunaloa Hwy. ...	Manawainui Stream ..	1939	325	
Oahu	Waipahu St.	Waikele Stream	1905	54	
Kauai	Maluhia Road	Wailana Stream <u>1/</u> ..	1910	(<u>1/</u>)	
Niihau ...	None	None .....	...	...

1/ There are two bridges over Wailana Stream, both built in 1910: a 28-foot span over Branch No. 3 and a 46-foot span over Branch No. 4. Several former plantation bridges now owned by the State may be older but their construction dates are unknown.

Source: Hawaii State Department of Transportation, information provided February 2, 1981 and March 18, 1981.

Table 387.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS:
DECEMBER 31, 1980

Type of facility and control	State total	Ha-waii	Maui	Lanai	Molo-kai	Oahu	Kauai
Signalized intersections	586	30	14	-	-	537	5
Under State control ^{1/}	241	5	14	-	-	222	-
Under County control	345	25	-	-	-	315	5
Metered on-street parking spaces	3,442	458	-	-	-	2,984	-
Under State control	84	-	-	-	-	84	-
Dept. of Acctg. & General Services	8	-	-	-	-	8	-
Dept. of Transportation	76	-	-	-	-	76	-
Under County control	3,358	458	-	-	-	2,900	-
Metered off-street parking spaces	4,308	291	26	-	16	3,887	88
Under State control	1,587	110	26	-	16	1,347	88
Dept. of Acctg. & General Services	435	56	26	-	-	328	25
Dept. of Transportation	1,152	54	-	-	16	1,019	63
Under County control	2,721	181	-	-	-	2,540	-

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

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 388.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1980

[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	Passenger vehicles <u>1/</u>	Ambulances, 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
1980	633,846	617,571	514,669	85	3,366
		Motor vehicles -- continued			
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters <u>2/</u>	Trailers and semi-trailers
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
1980	87,542	1,725	488	9,696	16,275

Footnotes and source on next page.

Table 388.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1980
 -- 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 389.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
 1970 TO 1980

[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 1/ ...	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

1/ Corrected from 1980 edition, table 343.

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 390.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:
1970 TO 1980

[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
1980	514,669	389,576	52,682	23,561	48,850

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

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 391.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1980

[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	633,846	463,547	73,529	32,481	64,289
Motor vehicles	617,571	454,316	70,047	30,604	62,604
Passenger vehicles	514,669	389,576	52,682	23,561	48,850
Ambulances <u>1/</u>	85	63	11	7	4
Buses	3,366	2,461	333	172	400
Trucks	87,542	53,122	15,700	6,404	12,316
Truck tractors <u>2/</u>	1,725	956	421	130	218
Truck cranes <u>3/</u>	488	203	141	44	100
Motorcycles <u>4/</u>	9,696	7,935	759	286	716
Trailers and semi-trailers ..	16,275	9,231	3,482	1,877	1,685

1/ Including hearses and patrol wagons.

2/ Including tow trucks.

3/ Including miscellaneous vehicles.

4/ 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 392.-- MOTOR VEHICLE WEIGHT, BY KIND OF VEHICLE: 1979

Vehicle weight	Passenger cars	Trucks	Truck trailers	Buses	Other vehicles
Total	537,887	89,131	1,847	3,439	612
Under 2,000 lb.	52,941	70	12	4	9
2,000 to 2,999 lb.	235,367	27,063	1	117	9
3,000 to 3,999 lb.	179,034	31,158	9	83	16
4,000 to 4,999 lb.	65,218	18,434	6	994	45
5,000 to 5,999 lb.	5,036	2,913	19	442	58
6,000 to 9,999 lb.	239	4,646	265	129	192
10,000 to 14,999 lb.	16	2,525	673	348	109
15,000 to 19,999 lb.	12	1,205	536	378	83
20,000 lb. and over	24	1,117	326	944	91
Not reported	-	-	-	-	-
Median weight (lb.) <u>1/</u> ...	2,916	3,558	15,349	8,273	9,323

1/ Based on more detailed distributions.
Source follows next table.

Table 393.-- MODEL YEAR OF MOTOR VEHICLES:
1979

Model year	Percent
All vehicles	100.0
1950 or earlier	0.5
1951 to 1960	1.1
1961 to 1965	4.7
1966 to 1970	20.5
1971 to 1975	33.8
1976 to 1980	39.5
Median year	1974

Source: Hawaii State Department of Planning and Economic Development, Estimating Annual Vehicle-Miles Traveled (VMT) in the State of Hawaii (1981), table 8 and underlying data.

Table 394.-- 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 (gross vehicle weight):		
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:		
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

Continued on next page.

Table 394.-- INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977 -- Con.

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Fuel type:		
Gasoline	66.8	95.4
Diesel	2.9	4.1
LPG or other .....	.3	0.4
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

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 395.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1979 AND 1980

[As of December 31.]

Island	Taxis		Bicycles	
	1979	1980	1979	1980
State total	1,922	1,911	77,979	70,680
Hawaii	66	66	3,223	2,702
Maui	101	114	2,266	2,254
Lanai	1	2	127	140
Molokai	3	2	112	167
Oahu	1,706	1,690	70,362	64,112
Kauai	45	37	1,889	1,305
Niihau	-	-	-	-

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

Table 396.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE
REGISTRATION: 1971 TO 1980

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 ..	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	48,154	27,679	(NA)
1980 ..	4,316	(NA)	(NA)	(NA)

NA Not available.

1/ Revised from The State of Hawaii Data Book 1980,
table 350.

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 397.-- NEW PASSENGER CAR REGISTRATIONS, BY
ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF
HONOLULU: 1979 AND 1980

Origin and make of vehicle	1980	1979
Total	31,934	36,245
Domestic ^{1/}	12,334	18,801
Buick	1,218	1,397
Chevrolet	2,469	4,278
Dodge	410	1,255
Ford	3,297	5,391
Mercury	885	1,478
Oldsmobile	699	955
Plymouth	1,103	1,008
Pontiac	828	1,324
Other makes	1,425	1,715
Foreign ^{1/}	19,600	17,444
Datsun	3,881	3,460
Honda	2,678	2,403
Mazda	3,370	2,382
Subaru	1,147	616
Toyota	5,435	4,318
Volkswagen	1,680	2,553
Other makes	1,409	1,712

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

Source: Cardinal Mailing Services, Ltd., records.

Table 398-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1980

[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 ^{1/}	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627

^{1/} Revised from 1980 edition, table 348.

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

Table 399.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1970 TO 1980

Year and county	Highway fuel consumption ^{1/}		Vehicle miles of travel ^{2/}	
	Total (1,000 gallons)	Gallons per vehicle ^{3/}	Total (millions)	Per vehicle ^{3/}
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
1980	330,734	536	5,570.0	9,019

Footnotes and source follow next table.

Table 400.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
BY COUNTIES: 1980

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 ..	330,734	536	5,570.0	9,019
Honolulu	242,152	537	3,968.9	8,800
Hawaii	40,598	570	699.9	9,821
Kauai	15,634	489	331.0	10,361
Maui	32,350	511	570.2	8,999

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 401.-- ANNUAL VEHICLE-MILES TRAVELED PER VEHICLE, BY COUNTIES: 1979

Subject	State total	Hawaii	Maui	Hono- lulu	Kauai
PERCENT DISTRIBUTION					
Total	100.0	100.0	100.0	100.0	100.0
Under 3,650 miles	26.5	29.4	32.2	25.2	29.9
3,650 to 7,299 miles	25.0	22.6	21.4	26.2	19.1
7,300 to 10,949 miles	21.4	18.6	16.6	22.7	15.9
10,950 to 14,599 miles	12.2	10.8	11.4	12.7	9.9
14,600 to 18,249 miles	6.2	6.2	7.8	5.9	7.2
18,250 to 27,374 miles	5.4	7.5	8.4	4.4	11.0
27,375 miles and over	3.3	4.8	2.0	3.0	7.0
Median miles	7,081	6,977	6,686	7,105	7,530
Miles per gallon	16.2	15.2	15.8	16.1	20.0
AVERAGE MILEAGE BY VEHICLE TYPE					
Passenger car	8,862	9,443	8,404	8,726	11,360
Truck	8,891	8,678	8,047	9,016	10,581
Motorcycle	7,580	6,185	9,176	4,589	(NA)
Bus	18,120	9,702	11,603	19,950	22,018
U-drive	11,739	14,341	13,452	8,533	18,435

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Estimating Annual Vehicle-Miles Traveled (VMT) in the State of Hawaii (1981), tables 1, 3, 4, and 5. Based on a sample of data from the 1978 and 1979 safety inspection files.

Table 402.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA:
OCTOBER 1978 TO SEPTEMBER 1979

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	54.8	55.7	53.3	53.2
Median speed (miles per hour)	55.2	55.9	53.2	53.0
85th percent speed (miles per hour) ...	62.2	62.9	59.7	59.8
Percent exceeding --				
55 miles per hour	51	53	36	36
60 miles per hour	23	25	13	15
65 miles per hour	7	7	4	6

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1979, p. 142.

Table 403.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND
TRAFFIC DEATHS: 1970 TO 1980

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
1979	19,158	183	13,963	205
1980	18,301	165	13,026	184

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 404.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1980

County	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	18,301	165	13,026	184
Honolulu	13,636	102	9,465	112
Hawaii	2,111	27	1,735	29
Kauai	822	15	555	17
Maui	1,732	21	1,271	26

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 405.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1978 TO 1980

[Calendar year data for City and County of Honolulu bus system. Monthly pass program implemented November 1, 1979; figures are estimates for 1979 and 1980.]

Fare category	1978	1979	1980
All passengers	67,746,396	68,865,260	71,601,744
Adults, full fare	32,873,747	33,007,200	36,799,259
Students	15,370,817	15,815,950	16,765,875
School subsidy	62,610	75,172	150,972
Stadium express	14,824	15,795	18,162
Senior citizens	7,461,545	7,564,150	9,301,724
Chartered service	22,651	9,293	10,015
Free transfers	11,940,202	12,377,700	8,555,737

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

Table 406.-- BUS SERVICE, FOR OAHU: 1970 TO 1980

[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

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 407.-- 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>	14,817,639	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 408.-- CHARACTERISTICS OF TRAVEL TO WORK, FOR OAHU: 1976

Major mode of transportation	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 409.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1970 TO 1980

Calendar year	Miles of track	Passengers
1970 and 1971 <u>1/</u>	6	341,882
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	6	85,933
1978	6	94,115
1979	6	103,206
1980	6	111,600

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.

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

Table 410.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1980

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 April 2, 1981.

Table 411.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1970 TO 1980

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

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport
1970	300,629	52,183	77,451
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

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

Table 412.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE
OWNED AIRPORTS: 1980

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	375,408	121,528	76,273	145,215	32,392
Gen. Lyman	49,969	14,165	8,389	16,598	10,817
Kahului	111,573	40,708	28,866	34,701	7,298
Lihue	62,829	23,999	24,308	13,037	1,485
Keahole	66,944	13,895	14,953	28,354	9,742
Molokai	67,761	4,264	45,338	13,063	5,096

Source: Hawaii State Department of Transportation, Airports Division,
information provided April 2, 1981.

Table 413.-- ACTIVE PILOTS AND CIVIL AIRCRAFT: 1970 TO 1980

Year	Active pilots, Dec. 31 <u>1/</u>	U.S. active civil aircraft, Dec. 31	
		Air carrier	General aviation <u>2/</u>
1970	2,218	20	241
1971	2,409	17	249
1972	2,526	(NA)	(NA)
1973	2,786	291	
1974	2,956	16	308
1975	2,902	17	341
1976	3,037	21	365
1977	3,241	21	541
1978	3,586	18	475
1979	3,972	(NA)	530
1980	3,948	(NA)	(NA)

NA Not available.

1/ Data for 1971 and 1973-1978 include active pilots in American Samoa, Guam, and the Trust Territory as well as those in Hawaii.

2/ Data for 1977-1979 based on sample surveys with standard errors of 255 (in 1977), 262 (in 1978), and 130 (in 1979).

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

Table 414.-- TRANSPACIFIC AIRLINES SERVING HAWAII: JUNE 30, 1981

[Limited to airlines carrying revenue passengers.]

Category	Number
Total with passengers	22
Certificated airlines	17
Supplemental carriers	5

Source: Hawaii Visitors Bureau, data provided June 30, 1981.

Table 415.-- TRANSPACIFIC AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1970 TO 1980

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

Year	Transpacific passengers			Inter- island passenger arrivals <u>1/</u>
	Arrivals	Departures	Through	
1970	2,190,809	2,158,577	893,890	2,992,777
1971	2,296,119	2,304,570	729,237	3,380,031
1972	2,540,472	2,550,199	733,362	4,093,338
1973	2,866,003	2,913,446	870,378	4,809,097
1974	3,009,769	2,964,992	885,122	5,174,914
1975	3,181,580	3,134,774	956,576	5,321,616
1976	3,496,645	3,432,908	816,915	5,873,138
1977	3,667,756	3,615,717	714,150	6,413,847
1978	4,131,466	4,054,544	854,276	7,341,815
1979	4,245,032	4,148,645	971,452	7,578,877
1980	4,270,633	4,174,739	1,118,987	6,737,894

1/ Air taxi service was seriously underreported
before 1977.

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

Table 416.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1970 TO 1980

Subject	1970	1979	1980
Number of airlines <u>1/</u>	2	2	2
Aircraft revenue departures <u>2/</u> (1,000)	72.4	85.8	77.8
Aircraft revenue miles <u>2/</u> (1,000)	8,147	10,303	9,229
Average airborne speed <u>2/</u> (miles per hour) ..	287	316	318
Average available seats per aircraft <u>2/</u>	101.4	130.4	131.0
Revenue passengers: <u>2/</u>			
Enplanements (1,000)	2,643	6,766	5,981
Load factor (percent)	46.2	65.2	63.7
Revenue ton-miles (1,000):			
Freight plus express	3,314	2,688	2,544
Mail	1,038	1,090	977
Number of employees <u>3/</u>	1,943	2,743	2,689
Operating revenues (\$1,000)	44,391	155,010	180,498
Operating profit or loss (\$1,000)	469	2,011	2,944
Average passenger revenues per revenue passenger-mile <u>2/</u> (cents)	11.3	17.2	22.6
Average freight revenues per revenue ton-mile <u>2/</u> (dollars)	0.70	1.73	2.06

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

2/ Scheduled service only.

3/ December data.

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

Table 417.-- AIR CARGO AND AIRMAIL: 1970 TO 1980

[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
1980	130,586	114,673	21,105	19,581	138,008	13,576

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 418.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1980

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	-	-
Keahole	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 (1,118,987, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, data supplied April 2, 1981.

Table 419.-- 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 420.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1979 TO 1981

Subject	Effective date of change in fare					
	Apr. 16, 1979	Aug. 1, 1979	Aug. 8, 1979	Oct. 1, 1979	Nov. 1, 1979	Jan. 1 1980
First class, F <u>1</u> /	225.09	235.09	247.10	270.10	280.11	302.12
Fare	222.00	232.00	244.00	267.00	277.00	299.00
Tax	3.09	3.09	3.10	3.10	3.11	3.12
Coach, weekend, YW <u>1</u> / ..	156.06	163.06	171.06	187.07	194.08	209.08
Fare	153.00	160.00	168.00	184.00	191.00	206.00
Tax	3.06	3.06	3.06	3.07	3.08	3.08
Coach, weekday, YX <u>1</u> / ..	141.05	148.06	156.06	172.06	184.07	199.08
Fare	138.00	145.00	153.00	169.00	181.00	196.00
Tax	3.05	3.06	3.06	3.06	3.07	3.08
Economy, weekend, KW <u>1</u> /	149.06	155.06	163.06	179.07	186.07	(<u>3</u> /)
Fare	146.00	152.00	160.00	176.00	183.00	(<u>3</u> /)
Tax	3.06	3.06	3.06	3.07	3.07	(<u>3</u> /)
Economy, weekday, KX <u>1</u> /	134.05	140.05	148.06	164.06	176.07	(<u>3</u> /)
Fare	131.00	137.00	145.00	161.00	173.00	(<u>3</u> /)
Tax	3.05	3.05	3.06	3.06	3.07	(<u>3</u> /)
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 420.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHT BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1979 TO 1981 -- Con.

Subject	Effective date of change in fare					
	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981	June 17, 1981
First class, F <u>1/</u>	319.13	351.14	365.11	384.12	415.12	425.13
Fare	316.00	348.00	365.00	384.00	415.00	425.00
Tax	3.13	3.14	0.11	0.12	.12	.13
Coach, weekend, YW <u>1/</u> .	221.09	243.10	252.08	265.08	286.09	296.09
Fare	218.00	240.00	252.00	265.00	286.00	296.00
Tax	3.09	3.10	0.08	0.08	0.09	0.09
Coach, weekday, YX <u>1/</u> .	211.08	233.09	252.08	265.08	286.09	296.09
Fare	208.00	230.00	252.00	265.00	286.00	296.00
Tax	3.08	3.09	0.08	0.08	.09	.09
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time <u>2/</u>	5:02	5:02	5.02	5:02	5:02	5:02

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 421.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1979 TO 1981

Subject	Effective date of change in fare					
	Aug. 1, 1979	Sept. 1, 1979	Nov. 1, 1979	Dec. 1, 1979	Jan. 4, 1980	Mar. 1, 1980
HONOLULU - HILO						
Total one-way fare <u>1/</u>	39.00	41.00	42.00	43.00	45.00	49.00
Fare	36.11	37.96	38.89	39.81	41.67	45.37
Tax	2.89	3.04	3.11	3.19	3.33	3.63
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>	30.00	31.00	32.00	33.00	34.00	38.00
Fare	27.78	28.70	29.63	30.56	31.48	35.19
Tax	2.22	2.30	2.37	2.44	2.52	2.81
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>	30.00	31.00	32.00	33.00	34.00	38.00
Fare	27.78	28.70	29.63	30.56	31.48	35.19
Tax	2.22	2.30	2.37	2.44	2.52	2.81
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 421.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1979 TO 1981 -- Con.

Subject	Effective date of change in fare					
	May 2, 1980	June 1, 1980	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981	May 1, 1981
HONOLULU - HILO						
Total one-way fare <u>1/</u>	50.00	53.00	56.00	59.00	61.00	63.00
Fare	46.30	49.07	51.85	56.19	58.10	60.00
Tax	3.70	3.93	4.15	2.81	2.90	3.00
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>	39.00	41.00	44.00	47.00	49.00	51.00
Fare	36.11	37.96	40.74	44.76	46.67	48.57
Tax	2.89	3.04	3.26	2.24	2.33	2.43
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>	39.00	41.00	44.00	47.00	49.00	51.00
Fare	36.11	37.96	40.74	44.76	46.67	48.57
Tax	2.89	3.04	3.26	2.24	2.33	2.43
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 422.-- STATE COMMERCIAL HARBORS: 1981

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	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

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

Source: Hawaii State Department of Transportation, Harbors Division, data supplied April 24, 1981.

Table 423.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1970 TO 1980

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
1980	Dec. 31	1,143	Dec. 31	13,459

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 424.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1980

Subject	Number	Subject	Number
Certificates outstanding ...	13,459	Type of vessel: <u>1/</u>	
Length: <u>1/</u>		Cabin motorboat	1,865
Under 16 feet	5,347	Open motorboat	5,086
16 to less than 26 feet	6,779	Runabout	3,100
26 to less than 40 feet	1,092	Sail/inboard	555
40 to 65 feet	190	Sail/outboard	670
Over 65 feet	7	Sail only	1,543
Hull materials: <u>1/</u>		Motor vessel over 65 feet	7
Wood	2,544	Other	589
Steel	37	Uses:	
Aluminum	429	Pleasure	11,785
Plastic	9,961	Commercial fishing	1,038
Other	444	Charter fishing	17
Propulsion: <u>1/</u>		Commercial passenger	67
Inboard	897	Other commercial	33
Outboard	7,508	Livery	124
Inboard/outboard	2,010	Dealers or manufacturers	44
Sail/inboard	561	Youth group	42
Sail/outboard	614	Government	251
Sail only	1,572	Other	58
Other	253	Island kept: <u>1/</u>	
Type of storage: <u>1/</u>		Hawaii	1,796
On water	2,764	Kauai	1,016
On land	10,651	Lanai	49
		Maui	893
		Molokai	213
		Oahu	9,448

1/ Data exclude 44 dealer or manufacturer registrations.

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

Table 425.-- BOATING ACCIDENTS: 1975 TO 1980

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
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
1980	71	1	1	8	86	917.6

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

Table 426.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1970 TO 1980

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1970 <u>1</u> /	1,933	16,053,275	3,321	2,167,733
1971 <u>1</u> /	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

1/ Tonnage estimated.

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

Table 427.-- 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 vessel -- 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 428.-- TRANSPACIFIC AND INTERISLAND SURFACE
PASSENGER MOVEMENTS: 1970 TO 1981

[Data limited to revenue passengers.]

Year	Transpacific passengers ^{1/} (years ended June 30)			Inter- island passenger arrivals ^{2/} (calendar years)
	Arrivals	Departures	Through	
1970 ...	13,267	13,699	(NA)	-
1971 ...	8,943	8,024	(NA)	-
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	(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 Davies Marine Agencies, Inc., records; interisland passengers, 1980, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 429.-- 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 430.-- 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
To or from other countries	-	-	-
To or from other States	-	-	-
To or from U.S. territories	-	-	-
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 376 in the 1980 edition).

2/ Commercial interisland hydrofoil service was discontinued January 15, 1978. 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 431.-- OVERSEAS AND INTERISLAND SHIPPING: 1968 TO 1978

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
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 ^{1/}	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

^{1/} Revised from 1980 edition, table 378.

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 432.-- 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 <u>3/</u>	212,175	-	-	-
Other harbors <u>4/</u>	269,995	(NA)	(NA)	(NA)

Continued on next page.

Table 432.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS:
1978 -- Con.

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>4/</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/ Corrected from 1980 edition, table 379.

4/ 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.