

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, local public transit, civil aviation, and water traffic.

Most local travel in Hawaii is by private automobile. Motor vehicle registration increased from 324,000 in 1966 to 425,000 in 1971 and 537,000 in 1976. Vehicle miles rose during the same period from 2.57 billion to 4.31 billion. Hawaii residents purchased 39,700 new passenger cars in 1976 and scrapped or shipped out approximately 10,000. By the end of 1976, 540,700 licensed drivers had access to 3,797 miles of streets and highways throughout the State. There was a corresponding rise in the use of local bus service: revenue passengers of the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 64.6 million in 1976. Registered bicycles numbered 52,000 in 1971 and 89,000 in 1976.

Most scheduled interisland travel is now by air. As recently as 1941, interisland steamers carried 163,000 passengers, while the single airline then operating carried 49,000. Interisland steamer service was discontinued in 1949, but in 1975 hydrofoil service was initiated between Honolulu and other Island ports. In 1976, the two scheduled airlines and a number of air taxis reported 5.9 million interisland passengers, more than three times their 1966 total, while hydrofoil passengers numbered 196,000. The State has 12 commercial airports, 46 general aviation, military, or private airports, 2,902 active pilots, and 358 active civil aircraft.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 6,000 in 1976, air passengers increased during the same 17-year span from 224,000 to 3.5 million. Between 1936 and 1977, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$244). Overseas cargo received in the State in 1975 amounted to 68,000 tons by air and 8.6 million tons by ship.

Undocumented State-registered vessels as of December 31, 1976, numbered 13,130, compared with 8,803 in 1971. Median length was 17 feet, and four-fifths were stored on land. There were also 802 documented vessels in the State in 1976, more than double the 1965 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Land, Water, and Air Transportation Facilities Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, Honolulu Department of Transportation Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Similar statistics for other areas are reported in *Statistical Abstract of the United States: 1976*, Sections 21 and 22.

**Table 256.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1966 TO 1976**

Year (December 31)	Total	Paved	Unpaved
1966	3,372.96	3,193.96	179.00
1967	3,401.52	3,222.62	178.90
1968	3,442.43	3,258.53	183.90
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
ISLANDS: 1976			
Hawaii	1,433.01	1,236.51	196.50
Maui	575.75	499.70	76.05
Lanai	45.76	31.76	14.00
Molokai	124.73	110.15	14.58
Oahu	1,291.57	1,255.10	36.47
Kauai	326.42	303.31	23.11
Niihau	—	—	—

¹ Includes 284.00 miles reclassified from "paved" to "unpaved."

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

**Table 257.—FREEWAY MILEAGE AND HIGHWAY TUNNEL LENGTH, BY ISLANDS:
1955 TO 1975**

Island	Freeway mileage in use, Dec. 31 ¹			Highway tunnel length (feet) in use, Dec. 31 ²		
	1955	1965	1975	1955	1965	1975
State total	1.5	6.5	28.6	317	11,220	11,220
Oahu	1.5	6.5	28.6	—	10,903	10,903
Maui	—	—	—	317	317	317

¹ Includes only highways built to freeway standards; excludes highways built to lower standards but functionally classed as expressways or freeways. The first freeway in Hawaii was Lunalilo Freeway, between Alexander Street and South King Street, Honolulu, opened in 1954.

² Each bore counted separately. The first highway tunnel in Hawaii was one of 317 feet on Honoapiilani Highway, near Olowalu, Maui, opened in 1951.

Source: Hawaii State Department of Transportation, Highways Division, December 1976.

Table 258.—HIGHWAY BRIDGES, BY ISLAND: 1977

Island	Longest highway bridge		Highest highway bridge	
	Location	Length (feet)	Location	Height (feet)
Hawaii	Hakalau	775	Nanue, Hilo	208
Maui	Kalialinui	325	Unnamed, Hana Rd.	83
Lanai	Keomuku	25	Not available
Molokai	Manawainui	325	Manawainui	50
Oahu	Pearl City Viaduct	5,946	Kipapa	160
Kauai	Kalihiwai	798	Wahiawa, Koloa	98

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, data supplied May 1977.

Table 259.—MAXIMUM GRADES, HEIGHTS, AND TRAFFIC, FOR STREETS AND HIGHWAYS: 1976

Subject and island	Street or highway	Amount
Steepest streets and highways (percent grade):		
Hawaii	Waipio Valley Road 1/3-mile below lookout	26.0
	Kuakini Houselot Subdiv. Rd., N. Kona	23.0
	Stainback Hwy., 12 miles from Volcano Rd.	16.0
Maui	Hapapa Road	26.0
	Pulehuiki Rd., off Kula Hwy.	19.6
Lanai	Manele Road	9.4
Molokai	Pano Place	12.0
Oahu	Huali St., below Prospect St., Punchbowl	24.0
	Alencastre St., St. Louis Heights	19.0
	Tantalus Drive and Roundtop Drive	19.0
Kauai	Wilhelmina Rise	19.0
	Kuli Road, Kalaheo	25.7
	Wainiha Powerhouse Road, Haena	19.5
Highest streets and highways (feet above sea level):		
Hawaii	Road to Mauna Kea	13,631
	Saddle Road, 30½ miles from Hilo	6,630
Maui	Haleakala Road	10,000
Lanai	Lanaihale Road	3,370
Molokai	Road to Waikolu	3,600
Oahu	FAA Road to Kaala	4,020
	Palehua Road	2,700
Kauai	Kokee Road	4,120
Busiest intersections (vehicles per 24-hour period):		
Hawaii	Kamehameha Ave. and Kanoelehua Ave.	55,560
Maui	Kaahumanu Ave. and Kahului Beach Rd.	73,250
Lanai ¹	Kaumalapau Hwy. and Manele Rd.	2,530
Molokai ¹	Kam V Hwy. and Ala Malama St.	12,670
Oahu	Kalihi Interchange, H-1 Frwy. and Kalihi St.	334,260
	Kam Hwy., Puuloa Rd., Nimitz Hwy., and Lagoon Dr.	193,450
	Kapiolani Blvd., King St., and South St.	49,080
Kauai ²	Kuhio Hwy., Ahukini Rd., and Oxford St.	43,430

¹ 1974 data.

² 1975 data.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records; City and County of Honolulu, Department of Transportation Services, records; County of Hawaii, Department of Public Works, records; County of Kauai, Department of Public Works; County of Maui, Department of Public Works.

**Table 260.—SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS:
DECEMBER 31, 1976**

Type of facility and control	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	509	22	12	—	—	470	5
Under State control ¹	208	1	12	—	—	195	—
Under County control	301	21	—	—	—	275	5
Metered on-street parking spaces	4,109	595	26	—	—	3,463	25
Under State control	627	56	26	—	—	520	25
Dept. of Acctg. & General Services	410	56	26	—	—	303	25
Dept. of Transportation	217	—	—	—	—	217	—
Under County control	3,482	539	—	—	—	2,943	—
Metered off-street parking spaces	3,524	370	—	—	18	3,089	47
Under State control ¹	836	80	—	—	18	691	47
Under County control	2,688	290	—	—	—	2,398	—

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 261.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:
1966 TO 1976**

Year	Motor vehicle registration ¹			Highway fuel consumption ²		Vehicle miles of travel ³	
	Total	Passenger cars	Other motor vehicles ⁴	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1966	323,843	286,836	37,007	183,255	566	2,565.6	7,922
1967	335,326	297,766	37,560	194,368	580	2,721.1	8,114
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	476,759	416,663	60,096	289,847	608	4,057.9	8,511
1974 ⁵	487,647	423,642	64,005	279,996	574	3,919.9	8,038
1975 ⁵	501,783	434,088	67,695	296,160	590	4,146.2	8,263
1976 ⁵	536,514	462,685	73,829	308,151	574	4,314.1	8,041

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

² Includes gasoline, diesel oil, and butane gas.

³ Based on an average of 14 miles per gallon.

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

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

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

**Table 262.—VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE,
BY COUNTIES: 1975**
(Revised)

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total ¹	501,783	383,115	53,001	23,901	41,766
Passenger cars	434,088	339,647	41,615	19,194	33,632
Ambulances and hearses	98	63	14	5	16
Buses	2,275	1,706	250	158	161
Trucks	63,389	40,512	10,693	4,432	7,752
Tractor-trucks	1,878	1,132	429	112	205
Other motor vehicles	55	55	—	—	—
Other vehicles registered: ¹					
Trailers and semi-trailers	16,062	9,849	2,964	1,679	1,570
Motorcycles and motor scooters	8,569	7,103	569	203	694
Highway fuel consumption (1,000 gal.)	296,160	226,427	33,129	12,927	23,677
Per motor vehicle (gallons)	590	591	625	541	567
Vehicle miles (millions)	4,146.2	3,169.9	463.8	181.0	331.5
Per vehicle (miles)	8,263	8,274	8,751	7,572	7,937
Drivers licenses in force, Dec. 31	531,375	425,370	46,891	22,153	36,961

¹ Taxable and non-taxable. Includes vehicles operated by members of the armed forces in Hawaii but registered elsewhere.
Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records.

**Table 263.—VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE,
BY COUNTIES: 1976**

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total ¹	536,514	408,445	56,845	25,366	45,858
Passenger cars	462,685	361,447	44,258	20,163	36,817
Ambulances and hearses	83	54	12	4	13
Buses	2,548	1,872	246	175	255
Trucks	69,288	43,912	11,920	4,905	8,551
Tractor-trucks	1,856	1,106	409	119	222
Other motor vehicles	54	54	—	—	—
Other vehicles registered: ¹					
Trailers and semi-trailers	16,290	9,803	3,064	1,816	1,607
Motorcycles and motor scooters	9,230	7,649	653	217	711
Highway fuel consumption (1,000 gal.)	308,151	232,171	35,734	13,954	26,292
Per motor vehicle (gallons)	574	568	629	550	573
Vehicle miles (millions)	4,314.1	3,250.4	500.3	195.4	368.1
Per vehicle (miles)	8,041	7,958	8,801	7,702	8,027
Drivers licenses in force, Dec. 31	540,720	429,216	49,150	22,636	39,718

¹ Taxable and non-taxable. Includes vehicles operated by members of the armed forces in Hawaii but registered elsewhere. Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records.

Table 264.—TAXIS, BY COUNTY: 1970 TO 1976

Year (Dec. 31)	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui			
					County total	Lanai	Maui	Molo-kai
1970	1,567	1,434	57	28	48	2	42	4
1973	1,847	1,680	56	26	85	2	77	6
1974	1,802	1,612	55	24	111	2	101	8
1975	1,683	1,487	55	31	110
1976	1,799	1,589	62	45	103	2	98	3

Source: County departments of finance, records.

Table 265.—REGISTERED BICYCLES, BY COUNTIES: 1970 TO 1976

Year	State total ¹	City and County of Honolulu	County of Hawaii	County of Kauai ²	County of Maui ³
1970	34,530	28,749	2,489	3,292
1971	52,485	44,159	2,735	2,141	3,450
1972	79,188	68,620	3,766	2,729	4,073
1973	91,052	79,177	3,947	3,049	4,879
1974	107,826	91,504	6,118	4,034	6,170
1975	99,910	85,976	4,927	3,693	5,314
1976	89,018	78,220	3,781	2,890	4,127

¹ Excludes Kauai before 1971.

² Records before 1971 lost in fire.

³ Includes Maui (3,719 in 1976), Molokai (219), and Lanai (189).

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

Table 266.—AUTOMOBILES AVAILABLE AND MEANS OF TRANSPORTATION TO WORK: 1960 AND 1970

Number of automobiles available	Households		Means of transportation to work	Workers	
	1970	1960		1970	1960
All households	203,089	153,012	All workers ¹	327,310	248,406
None	22,170	25,871	Private automobile, driver	213,521	} 156,992
1	93,854	88,320	Private automobile, passenger	44,493	
2	69,343	32,577	Bus	19,470	20,039
3 or more	17,722	6,244	Walked only	33,003	22,214
			Other means	11,296	10,173
Percent two or more	42.9	25.4	Worked at home	5,527	32,843

¹ Includes not reported (6,145 in 1960).

Source: *U.S. Census of Housing: 1960*, Final Report HC(1)-13, table 6; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 64; *U.S. Census of Housing: 1970*, Final Report HC(1)-B13, table 36; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 50.

**Table 267.—COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE REGISTRATION:
1963 TO 1976**

Year	Number of passenger cars			Out-shipments of automobiles and auto parts (tons) ²
	Net increase ¹	New registrations	Scrapped or shipped out	
1963	12,336	19,442	7,106	14,693
1964	16,827	23,898	7,071	18,024
1965	19,310	27,431	8,121	11,676
1966	13,277	28,502	15,225	11,861
1967	10,930	28,608	17,678	8,662
1968	17,258	33,917	16,659	9,260
1969	17,189	39,148	21,959	9,212
1970	26,042	36,627	10,585	11,050
1971	16,950	35,984	19,034	16,157
1972	16,974	37,484	20,510	14,394
1973	24,484	41,919	17,435	16,420
1974	6,979	30,932	23,953	31,423
1975	10,446	33,693	23,247	21,396
1976	28,597	38,006	9,409	(NA)

NA Not available.

¹ From previous registration year.

² Excludes parts before 1965.

Source: Net increase from Hawaii State Department of Transportation, Land Transportation Facilities Division, records; new registrations from R.L. Polk & Co. data in the Federal Reserve Bank of San Francisco, *Western Economic Indicators* (monthly), and Motor Vehicle Manufacturers Association, *Motor Vehicle Facts & Figures '77* (1977), p. 22. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual); vehicles scrapped or shipped out computed as residual.

Table 268.—NEW MOTOR VEHICLE REGISTRATIONS, BY KIND OF VEHICLE AND COUNTIES: 1976

Kind, origin, and make of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Passenger cars	39,731	31,175	3,914	1,441	3,201
Domestic	23,553	17,869	2,537	983	2,164
Buick	1,359	1,227	36	13	83
Chevrolet	4,949	3,760	521	237	431
Dodge	3,300	1,979	633	273	415
Ford	5,967	4,844	489	161	473
Mercury	1,004	860	94	21	29
Oldsmobile	1,403	1,233	79	11	80
Plymouth	2,578	1,759	336	168	315
Pontiac	1,128	1,051	45	8	24
Other makes	1,865	1,156	304	91	314
Foreign	16,178	13,306	1,377	458	1,037
Datsun	3,473	2,641	179	173	480
Subaru	1,143	1,083	24	2	34
Toyota	5,992	4,849	868	112	163
Volkswagen	2,678	2,237	125	114	202
Other makes	2,892	2,496	181	57	158
Trucks	5,893	3,830	1,056	403	604
Domestic	4,240	2,742	763	280	455
Foreign	1,653	1,088	293	123	149

Source: Motor Vehicle Registrations — Hawaii, A Division of Cardinal Mailing Services, Ltd., monthly tabulations.

**Table 269.—MOTOR VEHICLE DEATHS AND TRAFFIC DEATHS, INJURIES, AND MAJOR ACCIDENTS:
1966 TO 1976**

Year	Motor vehicle deaths ¹	Traffic deaths	Traffic injuries	Major traffic accidents ²
1966	130	116	8,051	10,225
1967	150	138	8,707	11,529
1968	166	147	10,082	13,989
1969	148	133	10,603	16,174
1970	163	153	11,743	18,172
1971	170	154	10,934	18,048
1972	164	146	11,141	18,259
1973	146	136	11,860	19,544
1974	123	129	10,022	14,855
1975	138	146	10,554	13,895
1976	(NA)	149	11,667	14,860

NA Not available.

¹ Traffic and non-traffic deaths combined, on a place of occurrence basis (except 1974 and 1975, which are on a place of residence basis). Non-traffic motor vehicle deaths includes those occurring on military bases and private property.

² Traffic accidents with damage of \$300 or more (\$100 or more before July 1, 1974) or causing injury or death.

Source: Motor vehicle deaths from U.S. Department of Health, Education, and Welfare, *Vital Statistics of the United States* (annual, 1966 to 1973) and Hawaii State Department of Health, *Statistical Report, 1974*, p. 25, and records. Traffic deaths, injuries, and accidents from the Hawaii State Department of Transportation, Highways Division, *Major Traffic Accidents* (annual), and records.

Table 270.—BUS SERVICE, FOR OAHU: 1970 TO 1976
(Service provided by Honolulu Rapid Transit Co., Ltd., through 1970 and by Mass Transit Lines beginning in 1971.)

Year	Buses, Dec. 31	Bus mileage ¹	Passengers								
			Total	Adults	Students	Revenue transfers	Stadium express	Chartered service ²	Senior citizens	School subsidy	Free transfers
1970 ³	141	4,611,357	30,434,906	20,667,713	2,866,354	—	—	159,480	—	—	6,741,359
1971 ⁴	108	2,986,724	19,413,259	12,845,695	1,855,745	—	—	—	1,994,747	41,658	2,675,414
1972 ⁵	143	4,964,044	31,031,764	16,572,443	5,459,399	93,225	—	21,935	3,614,840	81,108	5,188,814
1973 ⁶	315	7,973,393	36,741,009	18,791,719	7,044,095	293,682	—	31,653	4,163,482	77,926	6,338,452
1974 ⁷	333	11,670,774	50,519,626	25,348,211	10,418,417	107,035	—	35,593	5,521,982	87,236	9,001,152
1975	350	13,328,501	58,295,732	28,466,844	12,691,968	—	7,106	48,079	7,033,193	95,488	9,953,054
1976	350	15,547,127	64,585,334	31,371,327	14,365,046	—	12,327	46,874	7,329,002	115,932	11,344,826

¹ Includes mileage for regular public bus lines, school subsidies, and chartered services.

² Under HRT, chartered services were provided for both public and private groups, including special events, excursions and field trips. Under MTL, service is provided for intercity functions.

³ Passenger total excludes 2,277,502 zone fares; total revenue passengers (adult, student, and chartered) numbered 23,693,547. Under HRT, service was limited largely to Honolulu and Halawa. Service was suspended during a one-day strike in August 1970.

⁴ Bus service by HRT was terminated by a strike that began January 1, 1971 and is still in progress. MTL commenced service on March 1, 1971, with routes extending from Kalihi to Hawaii Kai.

⁵ Service provided from Pearl Harbor to Hawaii Kai; extended to Windward Oahu and North Shore on August 13, 1972.

⁶ Service extended to Waianae coast in April 1973.

⁷ Islandwide service after March 15, 1974, when MTL began operation of Leeward Bus Company lines.

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

**Table 271.—STEAM RAILROAD MILEAGE AND PASSENGERS:
1970 TO 1976**

Calendar year	Miles of track	Passengers
1970 ¹	6	} 341,882
1971	6	
1972 ²	6	(NA)
1973 ³	6	35,079
1974	6	62,619
1975	6	70,974
1976	6	80,362

NA Not available.

¹ The Lahaina, Kaanapali & Pacific Railroad 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 Railroad, records.

**Table 272.—INTERISLAND AND TRANSPACIFIC REVENUE PASSENGERS, BY MODE OF TRAVEL:
1966 TO 1976**

Year	Interisland passengers		Transpacific passengers				
	Surface arrivals ¹	Air arrivals ²	Surface ³		Air ⁴		
			Arrivals	Departures	Arrivals	Departures	Through
1966	—	1,754,970	29,612	24,899	1,000,687	973,158	151,634
1967	—	2,117,557	28,830	24,046	1,285,210	1,252,700	162,119
1968	—	2,347,949	26,603	22,496	1,358,335	1,307,447	183,864
1969	—	2,724,622	24,089	21,339	1,766,720	1,769,087	270,340
1970	—	2,992,777	13,267	13,699	2,190,809	2,158,577	893,890
1971	—	3,380,031	8,943	8,024	2,296,119	2,304,570	729,237
1972	—	4,093,338	10,725	8,820	2,540,472	2,550,199	733,362
1973	—	4,809,097	9,742	7,585	2,866,003	2,913,446	870,378
1974	—	5,174,914	5,756	5,975	3,009,769	2,964,992	885,122
1975	71,807	5,321,616	5,795	5,284	3,181,580	3,134,774	956,576
1976	196,366	5,873,138	5,829	5,987	3,496,645	3,432,908	816,915

¹ Scheduled interisland passenger service was discontinued in 1949 and resumed in June 1975.

² Includes air taxis in all years and nonrevenue passengers beginning in 1970.

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

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

Source: Hawaii State Department of Transportation, records.

Table 273.—AIRPORTS AND HELIPORTS, BY CONTROL: JUNE 30, 1977

Type	All facilities ¹	State		Military	Private ¹
		Commercial	General aviation		
Airports	56	11	3	6	36
Helicopters	18	8	—	(NA)	10

NA Not available.

¹ Data for private airports and heliports are estimates.

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

Table 274.—PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1960 TO 1976

Year	Active pilots, Dec. 31 ¹	U.S. active civil aircraft, Dec. 31		Aircraft operations ²		
		Air carrier	General aviation	Honolulu International Airport	Gen. Lyman Field, Hilo	Kahului Airport
1960	778	24	77	254,750	34,548	47,503
1965	1,340	23	146	288,288	44,559	64,603
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	(NA)	(NA)	(NA)	320,565	52,679	90,455

NA Not available.

¹ Data for 1971 and 1973-1975 include active pilots in American Samoa, Canton Island, Wake Island, and Guam, as well as Hawaii.

² An aircraft operation is an aircraft arrival or departure.

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

Table 275.—AIRCRAFT OPERATIONS, BY TYPE, FOR SPECIFIED AIRPORTS: 1976

Airport	All operations	Air carrier	Air taxi	General aviation	Military
Honolulu Int. Airport	320,565	108,404	60,614	113,952	37,595
Gen. Lyman Field	52,679	19,613	2,842	19,325	10,899
Kahului Airport	90,455	37,568	23,036	19,098	10,753
Lihue Airport	58,865	24,346	20,094	10,692	3,733
Ke-ahole Airport	58,425	13,937	14,090	17,867	12,531

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

**Table 276.—CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES:
1965 TO 1975**

Subject	1965	1974	1975
Number of airlines ¹	2	2	2
Aircraft revenue departures ² (1,000)	58.4	74.5	75.0
Aircraft revenue miles ² (1,000)	6,661	9,192	9,154
Average airborne speed ² (miles per hour)	194	327	325
Average available seats per aircraft ²	52.1	114.4	115.8
Revenue passengers: ²			
Enplanements ³ (1,000)	1,286	4,675	4,767
Load factor (percent)	61.0	65.4	65.3
Revenue ton-miles (1,000):			
Freight plus express	2,432	5,687	5,874
Mail	335	1,182	1,234
Number of employees	1,452	2,209	2,299
Operating revenues (\$1,000)	20,439	87,496	93,888
Operating profit (\$1,000)	1,911	6,967	1,506
Average passenger revenues per revenue passenger-mile ²	8.8	12.2	13.1
Average freight revenues per revenue ton-mile ²	0.57	0.72	0.85

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

²Scheduled service only.

³Originations for 1965.

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

Table 277.—AIR CARGO AND AIRMAIL: 1970 TO 1976
(In thousands of pounds)

Calendar year	Overseas air cargo		Overseas airmail		Interisland ¹	
	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 ²	67,131	116,591	17,915	24,883	51,389	14,332
1972 ³	55,908	108,178	15,665	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

¹ Cargo totals include air freight and air express.

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, Air Transportation Facilities Division, tabular releases and records.

Table 278.—PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1976

Airport	Passengers ¹		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	3,496,645	3,432,908	136,017	118,478	39,407	
Honolulu	3,390,023	3,288,657	129,507	94,568	(NA)	(NA)
Hilo (Lyman)	101,351	140,854	6,510	23,910	(NA)	(NA)
Kahului	5,271	3,397	—	—	(NA)	(NA)
Other airports	—	—	—	—	(NA)	(NA)
INTERISLAND						
Total	5,873,138	5,873,138	86,818	86,818	19,024	19,024
Honolulu	2,333,640	2,353,284	29,458	50,591	3,992	14,622
Hilo (Lyman)	568,601	518,842	12,300	22,007	4,942	1,355
Upolu	1,279	1,142	—	6	—	—
Waimea	24,507	19,545	816	990	16	81
Ke-ahole	489,763	504,793	5,567	3,762	1,512	459
Kahului	1,261,818	1,277,190	21,313	5,690	4,851	1,530
Hana	9,402	9,957	5	1	—	—
Kaanapali	40,825	41,439	789	57	—	—
Molokai	80,413	79,181	1,273	809	3,243	79
Kalaupapa	3,826	3,779	268	29	22	7
Lanai	22,386	22,181	1,237	130	154	36
Lihue	1,036,678	1,041,763	13,784	2,742	3,181	855
Other	192	42	6,645	—	—	—

NA Not available.

¹ Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (816,915 through Honolulu International Airport; not reported for General Lyman Field).

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

**Table 279.—AIR FARES AND FLIGHT TIME FOR SPECIFIED INTERISLAND AND TRANSPACIFIC FLIGHTS:
1967 TO 1977**

Subject	Jan. 1, 1967	Jan. 1, 1976	Jan. 1, 1977	Subject	Jan. 1, 1967	Jan. 1, 1976	Jan. 1, 1977
HAWAIIAN AIR LINES				PAN AMERICAN WORLD AIRWAYS—Con.			
Honolulu-Hilo:				Economy fare (weekends)¹			
Fare ¹	20.10	28.38	30.00	Economy fare (weekends) ¹	110.03	142.39	145.06
Fare	19.14	25.93	27.78	Fare	110.00	139.00	142.00
Tax	0.96	2.07	2.22	Tax	0.03	3.00	3.06
Security charge	—	0.38	—	Security charge	—	0.39	—
Aircraft	DC-9-30	DC-9-50	DC-9-50	Economy fare (weekdays)¹			
Flight time ²	0:40	0:40	0:40	Economy fare (weekdays) ¹	110.03	126.39	129.05
Honolulu-Maui/Kauai:				Fare	110.00	123.00	126.00
Fare ¹	13.20	21.38	23.00	Tax	0.03	3.00	3.05
Fare	12.57	19.44	21.30	Security charge	—	0.39	—
Tax	0.63	1.56	1.70	Thrift fare (weekends)¹ ..			
Security charge	—	0.38	—	Thrift fare (weekends) ¹ ..	100.03	134.39	137.05
PAN AMERICAN WORLD AIRWAYS (HONOLULU-SAN FRANCISCO)				Fare	100.00	131.00	134.00
First Class fare ¹	150.05	204.42	208.08	Tax	0.03	3.00	3.05
Fare	150.00	201.00	205.00	Security charge	—	0.39	—
Tax	0.05	3.00	3.08	Thrift fare (weekdays)¹ ..			
Security charge	—	0.42	—	Thrift fare (weekdays) ¹ ..	100.03	119.38	122.04
				Fare	100.00	116.00	119.00
				Tax	0.03	3.00	3.04
				Security charge	—	0.38	—
				Aircraft	B-707	B-747	B-747
				Flight time ²	4:55	4:58	4:58

¹ Total one-way fare, including taxes and other charges. In dollars.

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

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

Table 280.—STATE COMMERCIAL HARBORS: 1977

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	104	321
Kawaihae	40	35	1,500	1,450	1,015	23	71
Maui:							
Kahului	35	35	2,400	2,050	2,317	146	169
Molokai:							
Kaunakakai	23	23	1,500	600	687	5	288
Oahu:							
Honolulu:							
Main	} 40	{ 35	3,300	1,520	} 17,855	2,027	3,585
Kapalama			3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	60	104
Port Allen	35	35	1,500	1,200	1,324	24	33

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, *Hawaii State Commercial Harbors* (Undated leaflet) and revisions supplied May 1977.

TABLE 281.—DOCUMENTED AND NUMBERED REGISTERED VESSELS: 1970 TO 1976

Year	Documented vessels ¹	Numbered vessels ²
1970	553	8,042
1971	597	8,803
1972	621	10,250
1973	692	12,049
1974	707	11,843
1975	797	12,956
1976	802	13,130

¹Vessels 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. Data are as of June 30, 1970 to 1973, August 22, 1974, September 1, 1975 and December 1976.

²Non-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. Data are as of December 31, years.

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

Table 282.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1976

Subject	Number	Subject	Number
Certificates outstanding	13,130	Type of vessel: ¹	
Length:		Cabin motorboat	1,404
Under 16 feet	6,082	Open motorboat	5,168
16 to less than 26 feet	5,868	Runabout	3,175
26 to less than 40 feet	980	Sail/inboard	413
40 to 65 feet	154	Sail/outboard	649
Over 65 feet	8	Sail only	1,697
Dealers or manufacturers	38	Motor vessel over 65 feet	8
		Other	578
Hull materials: ¹		Uses:	
Wood	3,359	Pleasure	11,893
Steel	29	Commercial fishing	760
Aluminum	416	Charter fishing	11
Plastic	8,937	Commercial passenger	26
Other	351	Other commercial	35
Propulsion: ¹		Livery	55
Inboard	793	Dealers or manufacturers	38
Outboard	7,935	Youth group	22
Inboard/outboard	1,378	Government	224
Sail/inboard	429	Other	66
Sail/outboard	590	Island kept: ¹	
Sail only	1,736	Hawaii	1,382
Other	231	Kauai	973
Type of storage: ¹		Lanai	57
On water	2,547	Maui	696
On land	10,545	Molokai	219
		Oahu	9,765

¹ Excludes dealers and manufacturers registrations (38).

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

Table 283.—SHIP ARRIVALS AT THE PORT OF HONOLULU: 1966 TO 1976

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1966	1,941	14,654,173	2,877	1,219,665
1967	1,684	13,820,896	2,652	1,422,467
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

¹ Tonnage estimated.

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

Table 284.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1975

(Excludes domestic fishing craft)

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels		18 feet and less	19 feet and more
		Pass. and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker		
All spec. harbors ...	20,703	11,402	255	5,381	3,472	193	(NA)	(NA)
Hilo	663	127	24	277	221	14	569	94
Kawaihae	299	12	5	161	121	—	283	16
Kahului	859	192	16	348	268	35	758	101
Kaunakakai	1,122	—	—	591	528	3	1,086	36
Barbers Point	870	—	103	700	10	57	766	104
Honolulu	8,237	4,108	97	2,403	1,559	70	7,435	802
Nawiliwili	507	132	4	203	159	9	484	23
Kalaupapa	3	—	—	1	2	—	3	—
Port Allen	175	16	—	106	53	—	(NA)	(NA)
Kaunalapau	540	—	—	266	274	—	540	—
Pearl Harbor	4,524	4,376	6	120	17	5	(NA)	(NA)
Other ports	2,904	2,439	—	205	260	—	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1975, Part 4 (1976)*, pp. 103-104.

Table 285.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1975

Year	Passengers ¹			Freight (1,000 short tons) ²			
	Hilo Harbor	Honolulu Harbor ³	Kahului Harbor	Barbers Point Harbor	Hilo Harbor	Honolulu Harbor	Kahului Harbor
1970	4,457	690,906	—	2,561.6	1,141.2	8,078.1	1,083.4
1971	2,148	518,603	—	2,677.5	1,064.4	7,390.0	1,067.9
1972	658	796,694	—	3,420.4	1,108.1	7,960.4	1,297.8
1973	—	989,100	—	3,944.9	1,041.6	8,188.5	1,042.8
1974	9,600	987,475	9,600	4,360.2	928.6	7,556.9	982.1
1975	13,613	1,073,125	11,296	5,185.7	1,053.9	7,935.2	1,109.5

¹Total arrivals and departures for transpacific, interisland, and local travel.

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

³Most of the increase in passenger traffic appears to be a result of excursion travel between Honolulu Harbor or Kewalo Basin and Pearl Harbor. For separate statistics on this category, see the next page.

Source: U.S. Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual).

Table 286.—PASSENGER ARRIVALS AND DEPARTURES FOR HONOLULU HARBOR: 1969 TO 1975

Year	All passengers	To or from foreign countries		To or from other states		Interisland and local travel ¹	
		Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
1969	604,482	23,500	21,258	14,028	13,746	265,204	266,746
1970	690,906	21,189	19,745	4,825	7,046	319,094	319,007
1971	518,603	25,165	20,520	6,749	6,773	229,730	229,666
1972	796,694	24,996	15,907	6,353	5,087	372,176	372,175
1973	989,100	21,544	14,863	4	68	476,311	476,310
1974	987,475	12,831	11,078	—	—	481,783	481,783
1975	1,073,125	11,414	9,270	2,587	2,698	521,191	525,965

¹Mostly between Kewalo Basin and Pearl Harbor.

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

Table 287.—OVERSEAS AND INTERISLAND SHIPPING: 1965 TO 1975

(In revenue tons of 2,000 lb.)

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1965	5,785,111	3,408,059	2,377,052	3,213,134	1,512,810	1,700,324
1966	6,850,718	4,050,678	2,800,040	3,380,431	1,686,898	1,693,533
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

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 288.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1975
(Short tons)

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports	Coastwise ²		Internal receipts	Local
				Receipts	Shipments		
Hilo	1,053,879	29,605	45,542	621,063	357,390	279	—
Sugar	219,210	—	45,542	48	173,620	—	—
Kawaihae	279,687	—	16,980	60,094	202,582	31	—
Kahului	1,109,485	16,355	31	582,049	510,943	107	—
Sugar	243,193	—	—	34	243,159	—	—
Kaunakakai	371,340	—	—	45,722	325,608	10	—
Sand, gravel, crushed rock	213,682	—	—	—	213,682	—	—
Barbers Point	5,185,659	3,090,514	18,203	671,792	1,405,150	—	—
Crude petroleum	2,203,048	2,106,010	—	97,038	—	—	—
Gasoline	235,528	78,307	181	9,138	147,902	—	—
Distillate fuel oil	430,061	174,079	17,940	18,475	219,567	—	—
Residual fuel oil	1,934,654	584,621	—	546,240	803,793	—	—
Honolulu	7,935,183	1,584,356	61,812	4,119,554	2,157,583	165	11,713
Fresh fruits and tree nuts	366,327	1,058	203	325,839	39,227	—	—
Crude petroleum	217,773	217,773	—	—	—	—	—
Sand, gravel, crushed rock	251,774	42,208	—	201,904	7,662	—	—
Prep. fruit and veg. n.e.c.	490,571	1,280	3,243	75,143	410,905	—	—
Molasses	393,264	—	—	162,111	223,433	—	7,720
Groceries	240,913	—	—	118,094	122,819	—	—
Gasoline	353,164	17,374	9,359	282,425	44,006	—	—
Kerosene	952,283	810,634	1,551	140,098	—	—	—
Distillate fuel oil	208,896	78,176	5,538	120,815	4,367	—	—
Residual fuel oil	562,748	176,956	—	260,135	122,927	—	2,730
Fabricated metal products	239,939	11,726	345	89,872	137,996	—	—
Nawiliwili	532,978	8,493	—	189,727	334,732	26	—
Sugar	251,176	—	—	14	251,162	—	—
Other ports ³	1,060,011	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Commodities under 200,000 tons not shown separately.

²Includes both interisland and interstate traffic.

³Includes Hana (3 tons), Kalaupapa (591 tons), Port Allen (109,110 tons), Kaunapapa (261,095 tons, including 208,346 for fresh fruits and tree nuts), Pearl Harbor (276,319 tons), and other ports (412,893 tons, including 405,522 for sand, gravel, and crushed rock).

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1975, Part 4* (1976), pp. 29-37.

Table 289.—BOATING ACCIDENTS: 1970 TO 1976

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

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