

SECTION 17

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 72,000 in 1940 to 231,000 in 1960 and 440,000 in 1972. Vehicle miles rose during the same period from 716 million to 3.8 billion. By the end of 1972, 511,000 licensed drivers had access to 3,726 miles of streets and highways throughout the State. There was a corresponding decline in the use of local bus service: revenue passengers of the Honolulu Rapid Transit Company dropped from 93 million in 1944 to 22.2 million in 1972.

All 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. In 1972, two scheduled airlines and a number of air taxis reported 4.1 million interisland passengers, ten times their 1950 total.

Similar growth is evident in transpacific travel. Although surface passengers dropped from 95,000 in 1940 to 17,000 in 1971, air passengers increased during the same 31-year span from 639 to 5.3 million. Between 1936 and 1973, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$206). Overseas cargo received in the State in 1971 amounted to 54,000 tons by air and 7.1 million tons by ship.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors, and Airports Divisions. Other sources include the U.S. Bureau of Public Roads, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, and individual transportation companies. Similar statistics for other areas are reported in *Statistical Abstract of the United States: 1972*, Sections 21 and 22.

Table 194.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 1923 TO 1972

Date and surface	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1923: Sept. 1	1,479	553	272			474	180
Paved ¹	565	184	69			202	110
Unpaved ²	914	369	203			272	70
1938: Dec. 31 ³	2,040.4	610.7	545.2	(NA)	(NA)	650.0	234.5
Paved	1,367.2	400.0	232.0	(NA)	(NA)	562.6	172.6
Unpaved	673.2	210.7	313.2	(NA)	(NA)	87.4	61.9
1958: Dec. 31	2,967.45	1,158.24	600.58			920.81	287.82
Paved	2,392.61	872.53	399.49			861.99	258.60
Unpaved	574.84	285.71	201.09			58.82	29.22
1971: Dec. 31	3,584.71	1,380.32	519.92	62.59	89.14	1,212.23	320.51
Paved	3,114.27	1,138.52	408.41	31.21	68.92	1,172.89	294.32
Unpaved	470.44	241.80	111.51	31.38	20.22	39.34	26.19
1972: Dec. 31	3,725.92	1,312.70	644.84	62.59	89.14	1,288.23	328.42
Paved	3,128.68	1,032.77	477.00	31.09	68.92	1,229.60	289.30
Unpaved	597.24	279.93	167.84	31.50	20.22	58.63	39.12

NA Not available.

¹Concrete, asphalt or oiled macadam, or water-bound.

²Sub-based, coral, or other unpaved.

³"Public and semi-public."

Source: Anon., *Hawaii: An Integral Part of the United States* . . . (c. 1923), p. 18; Hawaii Territorial Highway Department and U.S. Bureau of Public Roads, *A Road Inventory of the Territory of Hawaii* (1939), pp. 2-3; Hawaii State Highway Department, "Mileages of Existing Roads, Streets and Highways (as of December 31, 1958)" (unpublished table); Hawaii State Department of Transportation, Highways Division, records.

**Table 195.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:
1900 TO 1972**

Year	Motor vehicle registration ¹			Fuel consumption per vehicle (gallons)	Vehicle miles	
	Total	Passenger cars	Other motor vehicles ²		Total (millions)	Per vehicle
1900	4	—	—	—	—	—
1905	80	—	—	—	—	—
1910	861	—	—	—	—	—
1915	3,781	—	—	—	—	—
1922	15,336	—	—	—	—	—
1925	28,001	—	—	—	—	—
1930	45,118	—	—	—	—	—
1935	50,422	40,772	9,650	654	461.5	9,153
1940	71,596	58,541	13,055	714	715.6	9,996
1945	70,618	55,672	14,946	638	630.4	8,932
1950	137,917	110,622	27,295	642	1,240.3	8,988
1955	180,755	153,451	27,304	621	1,571.1	8,694
1960	230,791	199,829	30,962	616	1,989.6	8,624
1961	244,898	212,650	32,248	602	2,063.7	8,428
1962	257,215	225,086	32,129	595	2,142.9	8,330
1963	270,176	237,422	32,754	580	2,192.3	8,120
1964	288,452	254,249	34,203	574	2,316.7	8,036
1965	309,331	273,559	35,772	566	2,449.8	7,924
1966	323,843	286,836	37,007	566	2,565.6	7,922
1967	335,326	297,766	37,560	580	2,721.1	8,114
1968	353,888	315,024	38,864	592	2,934.4	8,292
1969	373,541	332,213	41,328	605	3,162.8	8,467
1970	404,463	358,255	46,208	602	3,408.9	8,428
1971	425,210	375,205	50,005	615	3,660.7	8,609
1972	439,993	388,658	51,335	610	3,757.7	8,540

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

²Ambulances and hearses, buses, trucks, and tractor-trucks.

Source: Hawaii State Department of Transportation, Highways Division, *Annual Traffic Summary, Island of Oahu, 1959*, tables II, III, VI and VII, and records; Robert C. Schmitt, "Automobile Ownership in Hawaii Before 1931: Dates and Data," *Hawaii Historical Review*, Vol. II, No. 10, January 1968, pp. 426-432.

Table 196.—VEHICLE REGISTRATION AND USE, DRIVERS LICENSES IN FORCE, AND STREET AND HIGHWAY MILEAGE, BY COUNTIES: 1972

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered	439,993	341,973	44,515	20,115	33,390
Passenger cars	388,658	308,675	35,805	16,597	27,581
Ambulances and hearses	68	39	15	4	10
Buses	1,112	732	130	111	139
Trucks	48,541	31,519	8,198	3,300	5,524
Tractor-trucks	1,614	1,008	367	103	136
Other vehicles	—	—	—	—	—
Other vehicles registered:					
Trailers, semi-trailers	13,342	8,407	2,281	1,301	1,353
Motorcycles, motor scooters	10,490	8,742	697	411	640
Bicycles	79,188	68,620	3,766	2,729	4,073
Fuel consumption per motor vehicle (gallons)	610	609	660	583	566
Vehicle miles (in millions)	3,757.7	2,917.4	411.5	164.2	264.6
Miles per motor vehicle	8,540	8,531	9,243	8,165	7,925
Drivers licenses in force; Dec. 31	510,518	419,310	39,653	18,870	32,685
Mileage in public streets and highways, Dec. 31	3,725.92	1,288.23	1,312.70	328.42	796.57
De facto population per motor vehicle ¹	1.93	2.00	1.66	1.76	1.67
Motor vehicles per mile of public street or highway	118	265	34	61	42

¹Based on provisional estimates for July 1, 1972 published in the Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1972* (Statistical Report 95, May 2, 1973).

Source: Hawaii State Department of Transportation, Highways Division, records; each County Department of Finance, records; Honolulu Police Department, records.

Table 197.—TRUCKS: 1972

Subject	Number
Number of trucks	48,000
Excluding panels and pickups	13,000
Truck-miles (millions)	463
Excluding panels and pickups	129
Average miles per truck	9,600
Excluding panels and pickups	10,100
Used for personal transportation (percent)	37.6
Pickup, panel, multistop, or walk-in (percent)	73.5
Light-heavy or heavy-heavy (percent)	8.8
Over 4 years old (percent)	59.3
Purchased new (percent)	55.9
In fleet of 20 trucks or more (percent)	20.6
Single-unit, two-axle (percent)	91.2
Local operation (percent)	84.6
Gasoline operation (percent)	86.7
Maintained by owner or owner's repair shop (percent)	43.4

Source: U.S. Bureau of the Census, *Census of Transportation: 1972*, TC72-T12, tables 1 and 2.

Table 198.—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
One	93,854	88,320	Private automobile, passenger	44,493	
Two	69,343	32,577	Bus	19,470	20,039
Three 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

¹Includes 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 199.—NEW PASSENGER CAR REGISTRATIONS, FOR OAHU: 1960 TO 1972

Calendar year	Total registrations by origin				Leading make	
	Total	Domestic makes	Foreign makes		Name	Number registered
			Number	Percent		
1960	15,857	12,773	3,084	19.4	Chevrolet	3,702
1967	24,331	17,412	6,919	28.4	Chevrolet	4,706
1968	29,044	19,560	9,484	32.7	Chevrolet	4,409
1969	33,361	22,001	11,360	34.1	Ford	4,738
1970	33,542	20,275	13,267	39.6	Toyota	4,836
1971	32,109	16,308	15,801	49.2	Toyota	6,040
1972	32,450	17,842	14,608	45.0	Toyota ¹	5,246

¹Other makes with 1,000 or more new passenger car registrations in 1972 were: Datsun, 4,271; Chevrolet, 4,102; Volkswagen, 3,058; Ford, 2,852; Plymouth, 2,796; Dodge, 2,183; Pontiac, 1,562; Mercury, 1,129; and Buick, 1,087.

Source: Motor Vehicle Registrations—Hawaii, a Division of Cardinal Services, Ltd., tabular releases.

Table 200.—TRAFFIC VOLUMES, SIGNALIZED INTERSECTIONS, AND PARKING SPACES AND METERS, FOR OAHU: 1940 TO 1972

Year	Busiest intersection ¹		Number of signalized intersections, Dec. 31 ²	City and County public offstreet parking spaces, Dec. 31 ³	Parking meters in operation, Dec. 31 ⁴
	Location	Number of vehicles entering			
1940 ⁵	King, Dillingham, Liliha	28,175	27	—	—
1950 ⁶	King, Dillingham, Liliha	58,846	66	—	—
1960	Vineyard Blvd., Nuuanu Ave..	48,274	132	1,739	4,701
1970	Ala Moana Blvd., Piikoi St.	66,876	239	3,810	5,533
1972	Ala Moana Blvd., Piikoi St.	73,468	281	4,002	5,678

¹Based on 24-hour data for streets and highways under State jurisdiction. There are also numerous intersections under City and County jurisdiction, some of which may be busier than those listed.

²The first traffic light on Oahu was installed at Nuuanu Avenue and School Street, April 24, 1936.

³The first City and County offstreet parking facility was opened at Beretania and Smith Streets, December 19, 1952.

⁴The first City and County parking meters were put into operation in downtown Honolulu, February 1, 1952.

⁵Data for the busiest intersection refer to 1938.

⁶Data for the busiest intersection refer to 1953.

Source: Hawaii State Department of Planning and Economic Development, *Transportation Statistics for Hawaii, 1965* (Statistical Report 35, August 16, 1965), p. 7; Hawaii State Department of Transportation, Highways Division, records; City and County of Honolulu, Department of Traffic, records.

Table 201.—MOTOR VEHICLE DEATHS AND TRAFFIC DEATHS, INJURIES, AND MAJOR ACCIDENTS: 1917 TO 1972

Year	Motor vehicle deaths ¹	Year	Motor vehicle deaths ¹	Traffic deaths	Traffic injuries	Major traffic accidents ²
1917	22	1945	161	107	—	—
1918	24	1946	70	—	—	—
1919	27	1947	58	—	—	—
1920	41	1948	75	—	—	—
1921	46	1949	56	—	—	—
1922	48	1950	65	61	2,112	6,599
1923	51	1951	67	—	—	—
1924	67	1952	58	—	—	—
		1953	56	—	—	—
1925	57	1954	52	—	—	—
1926	62					
1927	52	1955	50	—	—	—
1928	83	1956	61	—	—	—
1929	73	1957	76	—	—	—
1930	86	1958	60	—	—	—
1931	92	1959	96	78	4,176	6,202
1932	86	1960	117	96	4,754	7,254
1933	78	1961	98	81	5,273	7,785
1934	87	1962	95	85	5,525	8,104
		1963	101	86	5,726	7,862
1935	74	1964	109	97	7,023	8,720
1936	81					
1937	76	1965	111	99	7,493	9,495
1938	80	1966	131	116	8,051	10,225
1939	59	1967	149	138	8,707	11,529
1940	63	1968	169	147	10,082	13,989
1941	92	1969	153	133	10,603	16,174
1942	112	1970	165	153	11,743	18,172
1943	109	1971	172	154	10,934	18,048
1944	157	1972	156	146	11,141	18,259

¹Traffic and non-traffic deaths combined. Non-traffic motor vehicle deaths include those occurring on military bases or private property.

²Traffic accidents with damage of \$100 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, *Major Traffic Accidents, Summary and Analysis, State of Hawaii* (annual) and records; Hawaii State Department of Health, records.

Table 202.—BUS, STREET CAR, AND RAILWAY REVENUE PASSENGERS: 1891 TO 1972

Year	Bus or street-car (Honolulu) ¹	Steam railway ²		
		All railroads	Oahu Rwy. & Land Co.	Other railroads
1891	(NA)	(NA)	103,644	(NA)
1895	(NA)	(NA)	70,354	(NA)
1900	(NA)	(NA)	278,872	(NA)
1905	6,494,936	(NA)	424,379	(NA)
1910	8,979,874	(NA)	617,719	(NA)
1915	11,822,269	1,344,905	996,944	347,961
1920 ³	16,926,617	2,760,585	2,033,756	726,829
1925	17,436,122	1,463,053	919,513	543,540
1930	14,505,045	591,069	322,685	268,384
1935	12,712,052	619,488	370,646	248,842
1940	23,390,745	354,159	331,587	22,572
1945	85,245,013	2,039,550	1,937,825	101,725
1950 ³	41,787,045	—	—	—
1955	29,658,374	—	—	—
1960	29,083,700	—	—	—
1961	26,116,687	—	—	—
1962	24,530,398	—	—	—
1963	22,922,296	—	—	—
1964	22,945,470	—	—	—
1965	23,190,704	—	—	—
1966	23,694,206	—	—	—
1967	18,301,341	—	—	—
1968	23,514,205	—	—	—
1969	24,079,233	—	—	—
1970	23,693,547	} 341,882	—	341,882
1971 ³	17,861,774		—	(NA)
1972	22,206,175	(NA)	—	(NA)

NA Not available.

¹Calendar year data for the Honolulu Rapid Transit Co., Ltd., 1905-1970, and for the Mass Transit Lines from March 1, 1971 forward. Street railway service, using mule cars, was initiated in Honolulu in 1888. From 1903 to 1970, HRT (which commenced operations in 1901) provided the only large scale public transit service in Honolulu. This function was assumed by MTL in 1971. Data for 1972 and later years include zone revenue passengers (301,986 in 1972) and school subsidy passengers (81,108) but exclude senior citizens carried without charge (3,614,840 in 1972) and charter passengers (21,935).

²Calendar year data for 1891-1905, years ended June 30 for 1910 and 1915, and calendar years thereafter. The Oahu Railway and Land Company, the only passenger railroad on Oahu, provided passenger service from 1890 to 1947. Other companies operated on the Neighbor Islands, offering passenger service from 1879 to 1946, and from May 10, 1970 to October 10, 1972. Total track mileage in the State was 209 in 1910, 325 in 1920, 374 in 1930, 323 in 1940, 59 in 1950, and 6 in 1970.

³Passenger volumes affected by major strikes.

Source: Hawaii State Department of Planning and Economic Development, *Passenger Statistics of Hawaii* (Statistical Report 75, August 25, 1970); City and County of Honolulu, Mass Transit Services, records; Lahaina, Kaanapali & Pacific Railroad, records.

Table 203.—CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1930 TO 1970

Subject	1930	1935	1940	1945	1950	1955	1960	1965	1970
Total capacity: available ton-miles ¹	(NA)	(NA)	(NA)	(NA)	9,503	16,146	30,659	34,151	85,535
Total traffic: revenue ton-miles ¹	(NA)	(NA)	405	2,786	5,241	8,762	17,685	20,189	39,866
Revenue load factor, schedule service (percent)	(NA)	(NA)	(NA)	(NA)	54.7	53.5	55.6	58.9	46.6
Passenger revenue ton-miles ¹	105	171	391	2,162	(NA)	7,031	14,227	17,363	35,514
Revenue passenger load factor (percent)	(NA)	35.3	65.5	93.7	60.2	58.0	58.7	61.0	46.2
Freight plus express revenue ton-miles ¹	(NA)	(NA)	9	496	622	1,651	2,996	2,432	3,314
Mail revenue ton-miles ¹	(NA)	(NA)	2	25	55	59	431	335	1,038
Revenue passenger originations ²	10	15	29	160	404	591	857	1,286	2,643
Aircraft revenue departures ¹	(NA)	(NA)	(NA)	(NA)	28	41	49	58	72
Aircraft revenue hours ¹	(NA)	(NA)	(NA)	(NA)	24	29	32	34	28
Aircraft revenue miles ¹	(NA)	(NA)	444	1,208	3,720	4,606	5,614	6,661	8,147
Average on-line passenger trip length (miles)	111	120	142	142	128	132	149	152	134
Average available seats per aircraft	(NA)	(NA)	14.1	24.0	24.8	32.5	42.8	52.1	101.4
Average airborne speed (miles per hour)	(NA)	(NA)	(NA)	(NA)	152	161	177	194	287
Total number of employees	(NA)	(NA)	(NA)	244	591	771	1,270	1,452	1,943
Operating revenues (\$1,000)	(NA)	(NA)	500	2,316	4,340	7,115	15,217	20,439	44,391
Operating profit or loss (\$1,000)	(NA)	(NA)	55	715	-108	-221	-251	1,911	469
Operating expense per revenue ton-mile (cents)	(NA)	(NA)	110	57	85	84	87	92	110
Ave. passenger revenue per rev. pass-mile (cents)	(NA)	(NA)	10.52	7.93	6.86	7.28	8.77	8.75	11.26
Ave. freight revenues per revenue ton-mile (cents)	(NA)	(NA)	178	69	52	46	53	57	70

NA Not available.

¹In thousands.

²In thousands. Refers to enplanements rather than originations for 1970.

Source: Civil Aeronautics Board, *1971 Edition Handbook of Airline Statistics* (1972).

Table 204.—AIRLINE AND SHIP REVENUE PASSENGERS: 1860 TO 1972

Year	Ship passengers			Airline passengers			
	Inter-island: arrivals ¹	Transpacific ²		Inter-island: arrivals ³	Transpacific ⁴		
		Arrivals	Departures		Arrivals	Departures	Through
1860	38,000	685	663	—	—	—	—
1866	(NA)	905	681	—	—	—	—
1870	(NA)	1,448	1,047	—	—	—	—
1875	(NA)	850	654	—	—	—	—
1880	(NA)	5,593	1,928	—	—	—	—
1885	(NA)	7,140	3,588	—	—	—	—
1890	(NA)	7,087	3,923	—	—	—	—
1895	(NA)	8,090	4,636	—	—	—	—
1899	(NA)	32,725	9,063	—	—	—	—
1905	(NA)	(NA)	(NA)	—	—	—	—
1910	62,236	15,876	13,302	—	—	—	—
1915	67,787	12,665	13,555	—	—	—	—
1920	95,237	13,766	16,404	—	—	—	—
1925	103,003	31,877	24,672	—	—	—	—
1930	143,806	36,000	34,000	10,356	—	—	—
1935	112,091	37,096	40,328	13,355	—	—	—
1940	158,328	50,401	44,181	28,624	639		
1945	13,217	(NA)	(NA)	170,437	(NA)		
1950	—	17,821	17,822	438,938	44,815	48,188	25,735
1955	—	26,353	23,739	619,486	114,104	117,319	59,128
1960	—	43,862	37,041	955,610	367,513	373,672	44,404
1961	—	35,700	32,402	939,336	422,657	443,686	59,729
1962	—	36,781	30,144	979,756	508,025	501,499	74,552
1963	—	35,136	27,624	1,144,265	595,350	593,917	106,473
1964	—	30,738	25,439	1,340,996	706,821	694,711	114,727
1965	—	29,868	24,122	1,538,392	833,415	828,967	131,873
1966	—	29,612	24,899	1,754,970	1,000,687	973,158	151,634
1967	—	28,830	24,046	2,117,557	1,285,210	1,252,700	162,119
1968	—	26,603	22,496	2,347,949	1,358,335	1,307,447	183,864
1969	—	24,089	21,339	2,724,622	1,766,720	1,769,087	270,340
1970	—	13,267	13,699	2,992,777	2,190,809	2,158,577	893,890
1971	—	8,943	8,024	3,380,031	2,296,119	2,304,570	729,237
1972	—	(NA)	(NA)	4,093,338	2,540,472	2,550,199	733,362

NA Not available.

¹Calendar year 1860, years ended June 30, 1910-1935, and calendar years thereafter. The 1860 figure is an estimate based on 1861 data for Honolulu. Except for limited accommodations aboard freighters, scheduled interisland passenger service was discontinued in January 1949.

²For the Port of Honolulu only. Calendar years 1860 to 1899, years ended June 30, 1911 (for 1910) and 1915 to 1925, calendar year 1930, and years ended June 30, 1935 and thereafter. Data exclude through passengers.

³Calendar years. Includes air taxis. Includes nonrevenue passengers beginning in 1970. Service began in 1929.

⁴Calendar year data for all airports. Includes nonrevenue passengers beginning in 1970. Treatment of through passengers was apparently changed after 1959 and again after 1969. Scheduled service began in Honolulu in 1936 and Hilo in 1967.

Source: Hawaii State Department of Planning and Economic Development, *Passenger Statistics of Hawaii* (Statistical Report 75, August 25, 1970), as corrected; Hawaii State Department of Transportation, records.

Table 205.—AIR FARES AND FLIGHT TIMES FOR SPECIFIED INTER-ISLAND AND TRANSPACIFIC FLIGHTS: 1930 TO 1973

Year (as of Jan. 1)	Honolulu-Hilo by Hawaiian Airlines				Honolulu-San Francisco by Pan American World Airways			
	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²
1930	S-38	30.00	60.00	1:40	—	—	—	—
1935	S-38	30.00	45.00	1:40	—	—	—	—
1940	S-43	23.00	41.40	1:25	B-314	278.00	556.00	17:30
1945	DC-3	20.70	37.26	1:20	B-314	319.70	575.00	17:30
1950	DC-3	15.53	31.05	1:20	B-377	184.00	331.20	9:25
1955	CV-340	16.50	33.00	1:02	B-377	137.50	275.00	9:25
1960	CV-340	19.36	38.72	1:02	B-707	133.08	266.16	4:55
1965	Viscount	20.10	40.19	0:53	B-707	100.03	200.06	4:55
1970	DC-9	25.20	50.40	0:42	B-707	85.03	170.05	4:55
1971	DC-9	26.00	52.00	0:42	B-747	88.28	176.56	4:55
1972	DC-9	26.00	52.00	0:42	B-747	101.32	202.64	5:02
1973	DC-9	26.00	52.00	0:41	B-747	103.04	206.08	5:02

¹Least expensive regular fare, including tax, in dollars.

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

Source: Hawaii State Department of Planning and Economic Development, *Chronology of Transpacific and Interisland Airline Fares and Flight Times, 1929-1971* (memorandum, February 19, 1971), as revised.

Table 206.—AIR CARGO AND AIR MAIL: 1947 TO 1972
(In thousands of pounds)

Year ¹	Overseas air cargo ²			Overseas air mail ²			Inter-Island ³	
	Outgoing	Incoming	Through	Outgoing	Incoming	Through	Air cargo	Air mail
1947	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	23,883	433
1948 ⁴		3,329			2,110		23,469	513
1949 ⁵	997	1,577	1,775	1,253	1,249	881	20,770	663
1950 ⁵	1,144	1,935	1,389	1,214	1,230	1,121	19,532	863
1951	835	879	2,596	887	981	1,393	24,421	709
1952	778	839	2,121	1,084	1,009	942	24,924	682
1953	821	934	1,834	1,196	1,080	1,105	24,526	719
1954	808	908	1,968	1,243	1,190	1,685	23,262	736
1955	857	1,417	3,178	1,603	1,590	4,143	24,143	748
1956	1,122	1,532	4,666	1,697	1,881	3,879	22,867	788
1957	1,453	2,143	10,081	1,811	2,152	3,394	21,597	850
1958	1,544	2,480	5,453	2,017	2,382	3,258	23,365	857
1959	1,787	4,055	7,710	2,191	2,871	4,563	22,385	936
1960	9,898	12,092	(NA)	7,955	8,702	(NA)	25,333	1,036
1961	10,902	14,028	6,170	12,992	15,767	1,060	26,207	1,279
1962	16,497	20,705	8,099	15,202	16,954	962	29,427	1,429
1963	14,840	17,082	4,996	15,388	17,193	723	32,634	1,698
1964	19,611	22,826	9,218	14,824	16,812	46	40,298	2,062
1965 ⁶	31,732	40,985	11,948	26,208	27,700	230	39,565	4,897
1966	43,490	57,907	13,877	64,356	67,036	128	38,767	11,736
1967	65,156	80,198	11,515	117,969	121,386	78	41,978	12,039
1968	66,960	83,986	21,075	117,929	121,096	2,534	38,215	12,236
1969	42,391	77,760	23,666	80,405	81,051	1,335	44,150	12,534
1970	37,553	54,285	(NA)	21,362	18,109	(NA)	52,139	14,141
1971 ⁷	67,131	116,591	(NA)	17,915	24,883	(NA)	51,389	14,332
1972 ⁸	55,908	108,178	(NA)	16,665	22,739	(NA)	59,900	14,774

NA Not available.

¹Calendar 1947; fiscal years ended June 30, 1948 to 1960; calendar years, 1961 and later.

²For traffic at Honolulu International Airport (all years) and General Lyman Field, Hilo (beginning in 1967). Comparability of these data varies significantly from year to year, as a result of fluctuations in completeness of reporting, inclusion of through traffic in outgoing and incoming totals, and other reasons. Major disruptions in classification procedures or coverage appear to have occurred in 1960 and, for air mail data, after 1968.

³All airports. Cargo totals include air freight and air express.

⁴Overseas cargo and mail data are combined totals for outgoing, incoming, and through traffic.

⁵Data reflect shipping strike of May 1, 1949-October 24, 1949.

⁶Data reflect the airlifting of all interisland third- and fourth-class mail beginning in October 1965.

⁷Data reflect the shipping strike of July 1, 1971-October 6, 1971.

⁸Data reflect the shipping strikes of January 17-February 19 and October 25-December 7, 1972.

Source: Hawaii Aeronautics Commission, *Annual Report* for 1948-1960; Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 207.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1970 TO 1972

Characteristic	1970	1971	1972
Certificates outstanding	8,042	8,803	10,250
Length: ¹			
Under 16 feet	4,051	4,352	5,118
16 to less than 26 feet	3,333	3,626	4,191
26 to less than 40 feet	561	654	730
40 feet and over	97	94	132
Hull materials:			
Wood	3,514	3,580	3,866
Steel	23	14	23
Aluminum	162	176	241
Plastic	4,280	4,880	5,918
Other	63	153	202
Type of vessel:			
Cabin motorboat	842	915	1,008
Open motorboat	3,301	3,477	4,201
Runabout	2,433	2,530	2,827
Sail/inboard	199	241	280
Sail/outboard	325	414	405
Sail only	907	970	1,183
Other	35	256	346
Uses:			
Pleasure	7,439	8,108	9,424
Commercial fishing	319	364	430
Other	284	331	396
Place kept:			
Moored on water: Oahu	1,641	1,803	1,823
Rest of State	399	392	452
Stored on land: Oahu	4,408	4,908	5,854
Rest of State	1,594	1,700	2,042
Not reported	—	—	79

¹Excludes boats assigned to dealers or manufacturers (77 in 1971, 79 in 1972).

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

Table 208.—SHIP ARRIVALS AND GROSS TONNAGE, 1824 TO 1969 AND CARGO TONS, 1910 TO 1971

Calendar year	Overseas vessel arrivals ¹		Calendar year	Overseas vessel arrivals ¹	
	Number	Tonnage (1,000)		Number	Tonnage (1,000)
1824	105	(NA)	1860 ²	286	39
1830	133	(NA)	1870	239	118
1840	78	(NA)	1880	217	138
1850	467	137	1890	252	213

Year ended June 30	Overseas vessel arrivals ¹		Interisland vessel arrivals ¹		Overseas cargo (1,000 tons) ³		Interisland cargo (1,000 tons) ³	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	In	Out	In	Out
1901	559	853	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1910	373	1,239	(NA)	(NA)	(NA)	(NA)	414	414
1920	839	4,530	(NA)	(NA)	(NA)	(NA)	393	393
1930	903	7,607	1,365	1,638	(NA)	(NA)	355	355
1940	872	7,236	2,622	1,917	(NA)	(NA)	235	235
1950	861	7,281	2,210	1,059	2,520	2,046	617	589
1960	1,411	12,305	2,272	1,061	3,773	2,095	974	976
1961	1,518	12,699	2,460	1,143	4,830	2,496	1,170	1,173
1962	1,818	13,094	2,522	1,150	4,988	2,678	1,224	1,232
1963	1,799	12,487	2,550	1,119	4,566	2,603	1,240	1,219
1964	2,064	13,103	2,446	1,275	5,185	2,732	1,334	1,372
1965	1,945	12,992	2,551	1,125	5,840	2,922	1,427	1,354
1966	1,941	14,654	2,877	1,220	6,165	3,031	1,600	1,511
1967	1,684	13,821	2,652	1,422	6,830	3,051	2,424	1,990
1968	1,774	15,277	2,474	1,414	7,818	3,105	1,651	1,505
1969 ⁴	1,903	15,954	2,961	2,458	7,186	2,225	1,970	1,971
1970 ⁴	1,933	(NA)	3,321	(NA)	7,465	2,146	1,861	2,394
1971 ⁴	1,879	(NA)	3,356	(NA)	7,097	2,345	2,091	2,099
1972	1,547	(NA)	3,096	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Port of Honolulu only. Data before 1901 exclude national vessels; such as warships and government survey vessels.

²Tonnage total excludes 179 whaling vessels, included in the number of arrivals.

³State and private piers on all Islands. Data from 1910-1940 are limited to freight carried by Interisland Steam Navigation Co.

⁴Cargo data are for calendar years.

Source: *The Friend*, May 1, 1844, p. 49; *The Polynesian*, February 1, 1851; Collector General of Customs, *Custom House Statistics* for 1860, 1870, and 1880, and *Report* for 1890; *Report of the Governor of Hawaii* for 1902 and 1910; Territorial Planning Board, *First Progress Report* (1939), Plate 142; Board of Harbor Commissioners, *Annual Report*, 1920-1961; Hawaii State Department of Transportation, Harbors Division, *Shipping Information*, 1962-1968 and records; Anson Chong, *Economic Development of Hawaii and the Growth of Tourism* (1963), p. 74.

Table 209.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1910 TO 1971

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
1910	—	—	—	—	252.8	1,211.0	—
1915	21,598	100,537	9,844	—	428.4	1,680.3	255.0
1920	41,524	149,862	17,860	—	316.2	2,039.0	228.3
1925	46,302	195,926	24,626	—	344.4	1,981.1	337.5
1930	43,989	207,436	31,183	—	406.7	1,926.5	442.2
1935	35,042	166,196	27,146	—	416.8	2,113.0	396.3
1940	46,604	278,260	37,122	—	528.3	3,353.8	495.7
1945	11,145	48,132	3,966	—	714.8	4,808.1	535.6
1950	525	50,660	26	—	739.9	2,812.0	630.6
1955	281	72,874	81	—	850.7	3,650.5	685.6
1960	4,047	112,298	614	—	807.8	5,041.3	638.0
1961	1,356	116,847	309	686.5	733.4	4,263.3	694.3
1962	1,157	108,750	17	469.3	835.2	4,295.2	714.6
1963	74	90,937	449	1,782.5	728.2	4,421.5	624.5
1964	1,492	213,004	13	2,248.4	874.5	4,755.7	787.3
1965	70	139,031	78	2,416.1	775.0	5,480.0	741.2
1966	4,000	160,565	1,086	2,469.7	835.0	6,180.8	895.4
1967	5,194	363,488	16	2,363.8	882.5	6,640.2	875.5
1968	9,880	535,287	1,930	2,472.5	991.1	6,828.9	957.2
1969	9,288	604,482	125	2,918.8	990.5	7,057.9	868.5
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

¹Total arrivals and departures for transpacific, interisland, and local travel. Not available before 1915.

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

³Most of the increase in passenger traffic after 1963 appears to be a result of excursion travel between Honolulu Harbor or Kewalo Basin and Pearl Harbor. For separate statistics on this category, see table 210.

Source: *Report of the Chief of Engineers, U.S. Army* for 1920-1945; U.S. Army, Corps of Engineers, *Waterborne Commerce of the United States* for 1953-1971.

Table 210.—PASSENGER ARRIVALS AND DEPARTURES FOR HONOLULU HARBOR: 1969 TO 1971

Year	All passengers	To or from foreign countries		To or from other states		Island excursions 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

¹Mostly between Kewalo Basin and Pearl Harbor.

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

Table 211.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1971

Harbor	Total inbound vessels ¹	By type of vessel ¹					By draft ¹	
		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	15,787	6,372	475	3,721	5,148	71	(NA)	(NA)
Hilo	833	91	54	230	446	12	725	108
Kawaihae	401	20	17	151	213	—	370	31
Kahului	1,027	198	48	316	453	12	938	89
Barbers Point	127	—	83	20	3	21	45	82
Honolulu	6,812	2,720	188	1,635	2,246	23	5,920	892
Nawiliwili	476	57	20	133	263	3	434	42
Kaunakakai	1,508	—	—	616	892	—	1,508	—
Port Allen	169	13	17	55	84	—	(NA)	(NA)
Kaumalapau	639	—	—	328	311	—	639	—
Pearl Harbor	3,322	3,266	48	7	1	—	(NA)	(NA)
Other Honolulu area	473	7	—	230	236	—	(NA)	(NA)

NA Not available

¹Excludes domestic fishing craft and Army and Navy vessels.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1971*, Part 4 (1972), pp. 97-98.

Table 212.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1971
(Short tons)

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports	Coastwise		Internal receipts	Local
				Receipts	Shipments		
Hilo	1,064,384	38,492	5,381	630,368	389,865	278	—
Kawaihae	355,546	—	—	92,821	262,655	70	—
Kahului	1,067,941	27,833	1,634	545,845	492,306	323	—
Barbers Point	2,677,542	1,699,517	—	863,971	114,054	—	—
Crude petroleum	1,837,914	1,644,091	—	106,201	87,622	—	—
Residual fuel oil	769,444	19,749	—	749,695	—	—	—
Honolulu	7,390,015	1,418,786	105,876	3,403,515	2,455,300	38	6,500
Fresh fruits and tree nuts	368,080	1,515	141	337,927	28,497	—	—
Prep. fruit and veg. juice, u.e.c.	716,649	1,372	40,542	122,458	552,277	—	—
Molasses	277,028	—	—	111,992	158,536	—	6,500
Gasoline	491,937	—	11,332	371,467	109,138	—	—
Kerosene	1,222,158	1,003,344	2,434	145,037	71,343	—	—
Residual fuel oil	382,094	—	8,517	273,102	100,475	—	—
Nawiliwili	460,259	11,334	—	199,108	249,795	22	—
Kaunakakai	172,647	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Port Allen	130,504	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kaumalapau	320,213	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Fresh fruits and tree nuts	254,233	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pearl Harbor	1,013,263	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Jet fuel	276,313	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Distillate fuel oil	354,817	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Residual fuel oil	289,299	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other Honolulu area ports (net)	296,515	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sand, gravel, crushed rock	271,154	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available

¹Commodities under 250,000 tons not shown separately.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1971, Part 4* (1972), pp. 32-40.