

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. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

Motor vehicle registration in Hawaii increased from 584,000 in 1978 to 818,000 in 1988. Vehicle miles rose during the same period from 4.7 billion to 7.4 billion. Hawaii residents purchased 61,000 new passenger cars and 14,000 trucks in 1988. By the end of that year, 635,000 licensed drivers had access to 4,092 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 68 million in 1978 to 74 million in 1988. Registered bicycles numbered 113,000 in 1987.

Almost all scheduled interisland travel is by air. In 1988, airlines and air taxis reported 9.0 million interisland passengers, some 22 percent more than in 1978, and carried 65,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 12 civilian heliports, 3,400 active pilots, and about 486 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1988, 6,653,000 overseas passengers arrived by air, a 10-year growth of 61 percent. Overseas air cargo received that year exceeded 123,000 tons.

Undocumented State-registered vessels as of December 31, 1988 numbered 14,000, compared with 8,000 in 1970. Median length was 17.3 feet, and four-fifths were stored on land. There were 1,600 documented vessels in the State in 1989, almost triple the 1970 total. Overseas vessels brought 5,815 passengers into the State in 1988. Receipts of cargo in 1986 included 8.5 million tons in overseas cargo and 4.2 million tons in interisland cargo.

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. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, county finance departments, Hawaii Automobile Dealers' Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1989, Sections 21 and 22.

Table 493.-- HIGHWAY DISTANCES: 1989

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd. ..	84.3	OAHU <u>1/</u>	
Hilo-Kailua, via Hamakua	91.2	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waikiki	3.2
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Waimanalo, via Nuuanu ..	13.3
Waimea-Hawi	21.4	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Kawaihae	11.5	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Waianae .	44.3
		Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard ..	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali ..	81.1
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu .	20.9	KAUAI	
Kahului-Kihei	7.9	Lihue-Haena	38.0
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
		Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	Poipu-Princeville	40.7

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

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

Table 494.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1923 TO 1988

[Excludes private thoroughfares and military roads not regularly
open to public use]

Category	1923	1938	1958	1973	1988
Total mileage ...	1,479	2,040	2,967	3,666	4,092
Paved	565	1,367	2,393	3,172	3,881
Unpaved	914	673	575	494	211

Source: Robert C. Schmitt, Historical Statistics of Hawaii
(University Press of Hawaii, 1977), p. 429; present report,
table 495.

Table 495.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,
BY ISLANDS: DECEMBER 31, 1988

[Excludes private thoroughfares and military roads not
regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	4,092.49	96.55	3,784.69	211.25
Hawaii	1,472.77	7.04	1,393.11	72.62
Maui	583.78	3.21	523.87	56.70
Lanai	45.83	-	31.83	14.00
Molokai	129.29	-	117.29	12.00
Oahu	1,469.07	86.30	1,349.33	33.44
Kauai	391.75	-	369.26	22.49
Niihau	-	-	-	-

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

Table 496.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1988

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,107	Airport Viaduct .	14,890	Nanue	208
Hawaii	254	Hakalau	775	Nanue	208
Maui	155	Kalialinui	324	Uaoa	79
Lanai	-	None .....	...	None .....	...
Molokai	13	Manawainui	325	Manawainui	50
Oahu	607	Airport Viaduct .	14,890	Kipapa	156
Kauai	78	Kalihiwai	798	Wahiawa, Koloa ..	90

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

Table 497.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1988

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

Table 498.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES,
BY ISLANDS: DECEMBER 31, 1985

Type of facility	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	580	38	18	-	-	516	8
Metered on-street parking spaces	3,630	816	-	-	-	2,814	-
Metered off-street parking spaces <u>1/</u>	3,226	277	68	-	18	2,797	66

1/ Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: Compiled by Hawaii State Department of Planning and Economic Development from 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 499.-- VEHICLE DENSITIES: 1923 TO 1988

Measure	1923	1938	1958	1973	1988
Motor vehicles per --					
1,000 persons <u>1/</u>	65.6	151.2	330.9	529.0	670.8
Mile of street or highway	13.3	30.4	68.2	130.0	199.8
Persons per <u>1/</u> --					
Motor vehicle	15.2	6.6	3.0	1.9	1.5
Mile of street or highway	202.5	201.0	206.2	245.9	297.8

1/ Based on resident population through 1938 and de facto population thereafter.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), tables 1.4 and 17.2; present report, tables 3, 494, and 500.

Table 500.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1978 TO 1988

[Taxable and non-taxable, including military
non-resident exempt vehicles]

Year	All vehicles regis- tered	Motor vehicles			
		All motor vehicles	Pas- senger vehicles <u>1/</u>	Ambu- lances, hearses, patrol wagons	Buses
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
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863
1983	(NA)	702,854	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034
1985	767,892	749,034	625,823	66	4,189
1986	790,855	771,575	642,636	60	4,158
1987	818,430	798,317	661,674	54	4,198
1988	838,327	817,609	670,877	52	4,215
		Motor vehicles -- continued			
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motor- cycles, motor scooters <u>2/</u>	Trailers and semi- trailers
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
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287
1985	106,673	1,334	342	10,607	18,858
1986	112,053	1,290	323	11,055	19,280
1987	119,338	1,220	318	11,515	20,113
1988	129,452	1,176	293	11,544	20,718

Footnotes and source on next page.

Table 500.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1978 TO 1988 -- Con.

NA Not available.

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 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, records; present report, table 502.

Table 501.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1978 TO 1988

[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
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
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983	702,854	515,002	80,090	35,365	72,397
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593
1986	771,575	556,935	89,918	40,585	84,137
1987	798,317	571,738	93,095	43,925	89,559
1988	817,609	579,998	96,360	47,235	94,016

Source: City and County of Honolulu, Department of Data Systems, records; present report, table 502.

Table 502.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:
1988 AND 1983

[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
1988					
All vehicles	838,327	591,594	100,915	49,430	96,388
Motor vehicles	817,609	579,998	96,360	47,235	94,016
Passenger vehicles <u>1/</u>	670,877	477,362	78,467	38,128	76,920
Ambulances <u>2/</u>	52	37	11	1	3
Buses	4,215	3,370	260	119	466
Trucks <u>1/</u>	129,452	89,321	16,023	8,371	15,737
Truck tractors <u>3/</u>	1,176	564	274	124	214
Truck cranes <u>4/</u>	293	110	67	30	86
Motorcycles <u>5/</u>	11,544	9,234	1,258	462	590
Trailers and semi-trailers ..	20,718	11,596	4,555	2,195	2,372
1983					
Motor vehicles	702,854	515,002	80,090	35,365	72,397
U-drive	30,442	18,580	2,891	1,478	7,493
All others	672,412	496,422	77,199	33,887	64,904

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: 1988 from City and County of Honolulu, Department of Data Systems, records; 1983 from Applied Analysis, Inc., Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii (August 1987), and records.

Table 503.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	294,052	29,237	230,214	71	12,020	22,510
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 504.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: DECEMBER 1988

Empty weight	Passenger vehicles	Buses	Trucks ^{1/}	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles	618,854	2,764	42,228	716	6,776	13,780
Under 2,000 lb.	41,875	-	19	-	6,770	10,395
2,000 to 2,999 lb.	337,963	36	9,064	9	2	521
3,000 to 3,999 lb.	194,874	68	12,501	12	1	179
4,000 to 4,999 lb.	40,483	718	9,722	12	2	187
5,000 to 5,999 lb.	2,955	895	2,564	13	0	192
6,000 to 9,999 lb.	454	440	3,883	104	1	959
10,000 lb. and over	250	607	4,475	566	-	1,347
Median weight (lb.)	2,792	5,626	3,962	14,175	<2,000	<2,000

^{1/} Vans and other trucks under 6,500 lb. in personal use are classified as passenger vehicles.

Source: Hawaii State Department of Transportation, Highways Division, Staff Services Office, Budget, Methods and Systems Staff; printouts from Honolulu Department of Data Systems. Medians calculated by Hawaii State Department of Business and Economic Development.

Table 505.-- TRUCK CHARACTERISTICS: 1972, 1977, AND 1982

[Percent]

Vehicular and operational characteristics	1972	1977	1982 ^{1/}
Major use: Personal transportation	37.6	50.0	54.3
Body type: Pickup, panel, multistop, or walk-in .	73.5	86.4	89.6
Vehicle size: Light	71.6	89.0	92.9
Annual miles: Less than 10,000	59.8	54.1	59.7
Year model: Over 4 years old	59.3	68.1	75.8
Vehicle acquisition: Purchased new	55.9	54.6	47.3
Fleet size: 1 truck	53.4	64.0	72.3
Truck type: Single-unit, 2 axles	91.2	95.7	96.6
Range of operation: Local	84.6	87.3	78.2
Fuel type: Diesel and LPG	6.2	4.6	3.7

^{1/} There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 506.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1983 TO 1988

Year	Total	Passenger cars	Motor trucks
1983	52,927	42,772	10,155
1984	63,625	48,791	14,834
1985	67,875	51,330	16,545
1986	68,060	49,680	18,380
1987	73,138	51,446	21,692
1988	78,454	56,278	22,176

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures (annual).

Table 507.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1985 TO 1988

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
1985	68,676	50,058	8,095	7,660	2,863
1986	68,379	48,497	8,535	7,896	3,451
1987	71,987	49,028	10,865	7,436	4,658
1988	74,962	49,401	11,413	8,410	5,738

Source: Hawaii Automobile Dealers' Association, 1988 HADA Yearbook, p. 10, and 1989 HADA Yearbook, p. 8.

Table 508.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE:
1987 AND 1988

Make	Total units, 1988	Passenger cars		Trucks	
		1987	1988	1987	1988
All makes	74,962	60,232	61,034	11,755	13,928
Ford	12,119	6,732	8,526	2,438	3,593
Nissan	10,405	8,063	9,080	1,907	1,325
Toyota	9,756	8,844	7,940	1,673	1,816
Chrysler/Dodge/Plymouth	7,501	5,133	5,793	1,170	1,708
Chevrolet	6,643	6,322	4,829	1,368	1,814
Honda	6,104	6,043	6,100	-	4
Mazda	2,979	2,372	2,017	1,368	962
Pontiac	2,072	1,601	2,068	-	4
Mercury	1,760	661	1,760	3	-
Buick	1,727	1,535	1,725	-	2
All others	13,896	12,926	11,196	1,828	2,700

Source: Hawaii Automobile Dealers Association, 1989 HADA Yearbook, p. 6.

Table 509.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1987 AND 1988

[Percent distributions]

Year	Total	Domestics <u>1/</u>	Imports		
			Total	Japanese <u>1/</u>	Other
1987	100.0	46.4	53.6	49.6	4.1
1988	100.0	51.7	48.3	44.2	4.1

1/ Japanese cars sold in the U.S. with U.S. nameplates are classified as domestic. Cars assembled in the U.S. with Japanese nameplates are classified as imports.

Source: Hawaii Automobile Dealers' Association, 1989 HADA Yearbook, p. 6, as corrected.

Table 510.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1983 TO 1988

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1983	574,533	428,897	64,560	29,169	51,907
1984	582,218	434,053	65,778	28,801	53,586
1985	593,952	441,278	68,177	29,188	55,309
1986	612,101	453,220	70,493	30,374	58,014
1987	628,027	463,522	72,142	31,831	60,532
1988	634,880	465,331	74,545	33,007	61,997

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

Table 511.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1988

Age	Both sexes	Male	Female
Total	634,880	344,326	290,554
15 to 19 years	37,573	21,345	16,228
20 to 24 years	60,985	32,649	28,336
25 to 34 years	162,653	84,875	77,778
35 to 44 years	149,360	78,242	71,118
45 to 54 years	87,274	46,842	40,432
55 to 64 years	73,991	40,146	33,845
65 to 74 years	47,681	29,255	18,426
75 to 84 years	14,330	10,145	4,185
85 years and over	1,033	827	206
Median age (years)	38.8	39.3	38.2

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

Table 512.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1986 TO 1988

Site	1986	1987	1988
Pali Highway at tunnels	49,242	50,611	50,453
Likeline Highway at tunnels	47,452	48,386	48,358
H-1 Freeway at Manoa-Palolo Drainage Canal 1/	122,603	(NA)	127,367
H-1 Freeway at Kapalama Drainage Canal Bridge	193,962	(NA)	191,286
Nimitz Highway at Kapalama Drainage Canal Bridge	63,626	63,040	69,040
Kalaniana'ole Highway east of Ainakoa Ave.	75,852	77,413	77,928

NA Not available.

1/ Includes Kapiolani on- and off-ramps.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 513.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1978 TO 1988

Year and county	Highway fuel consumption <u>1/</u>		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle <u>2/</u>	Total (millions)	Per vehicle <u>2/</u>
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
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
1986	357,716	464	6,970.7	9,034
1987	367,984	461	7,217.2	9,041
1988	378,988	464	7,400.8	9,052
COUNTIES: 1988				
Honolulu	260,670	452	5,096.3	8,838
Hawaii	50,972	521	955.7	9,774
Kauai	23,733	487	503.1	10,328
Maui	43,613	462	845.7	8,949

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

2/ Based on motor vehicle total by county of inspection; 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, Planning Branch, records.

Table 514.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway, elevated train, or railroad	38	38	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 and over who did not work at home ...	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 515.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1977 TO 1987, AND BY COUNTIES, 1987

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
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	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,852	108	10,941	117
1987	23,618	126	11,987	138
COUNTIES: 1987				
Honolulu	18,700	72	8,582	75
Hawaii	2,530	29	1,743	36
Kauai	882	10	530	11
Maui	1,506	15	1,132	16

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 516.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1983 TO 1988

[Average speeds, in miles per hour. Years ended September 30]

Year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arterials	Major collectors
1983	54.0	56.7	56.5	51.6	51.8
1984	54.7	56.8	56.8	52.4	53.1
1985	54.8	56.9	58.0	52.3	53.0
1986	55.1	58.4	(NA)	51.4	52.6
1987	55.0	58.4	(NA)	51.3	52.1
1988	<u>1/</u> 56.2	59.5	(NA)	52.0	52.3

NA Not available.

1/ The corresponding U.S. average was 56.3. Hawaii ranked 29th among the 48 States reporting average speeds.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 517.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1989

County	Passenger carriers <u>1/</u>			Property carriers <u>2/</u>	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	997	4,979	128,776	2,741	16,636
Hawaii	80	550	20,813	523	2,954
Maui	145	849	17,352	380	1,953
Honolulu	711	3,195	79,288	1,652	10,685
Kauai	61	385	11,323	186	1,044

1/ Includes mostly tour bus operators; excludes public transit (such as MTL, Inc.), school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office, from Hawaii State Department of Commerce and Consumer Affairs, Public Utilities Commission.

Table 518.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1987 AND 1988

[As of December 31]

Island	Taxicabs		Bicycles and mopeds	
	1987 <u>1/</u>	1988	1987	1988
State total	1,716	<u>2/</u> 1,765	111,542	113,311
Hawaii	93	95	3,675	3,780
Maui	123	123	2,739	2,472
Lanai	-	1	223	180
Molokai	-	-	238	258
Oahu	1,473	1,546	100,753	103,529
Kauai	27	(NA)	3,914	3,092

NA Not available.

1/ The figure for Kauai is incomplete.

2/ Excludes Kauai.

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

Table 519.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1980 TO 1988

[Data are for the Lahaina, Kaaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers	Calendar year	Miles of track	Passengers
1980	6	111,699	1985	6	199,759
1981	6	128,178	1986	6	215,735
1982	6	155,059	1987	6	244,555
1983	6	171,892	1988	6	285,139
1984	6	197,876			

Source: Lahaina, Kaaanapali and Pacific Rail Road, records.

Table 520.-- BUS SERVICE, FOR OAHU: 1970 TO 1988

[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>	Total passengers <u>2/</u>	Revenues <u>3/</u> (dollars)
1970 <u>4/</u>	141	4,611,357	30,434,906	4,970,000
1971 <u>5/</u>	108	2,986,724	19,413,259	1,246,351
1972	143	4,964,044	31,031,764	4,445,817
1973	315	7,973,393	36,741,009	5,254,908
1974	333	11,670,774	50,519,626	6,807,147
1975	350	13,328,501	58,295,732	7,990,505
1976	350	15,547,127	64,585,334	9,007,134
1977	350	16,242,537	66,311,882	9,629,349
1978	350	15,991,798	67,746,396	9,686,876
1979	350	15,915,000	68,765,000	9,931,000
1980	400	16,579,392	71,601,744	17,388,760
1981	400	16,748,338	73,546,802	17,991,735
1982	400	16,767,816	74,109,528	18,269,144
1983	395	16,654,568	75,051,618	18,157,876
1984	440	16,774,564	76,260,187	18,819,782
1985	440	16,938,692	74,816,485	18,952,566
1986	459	17,065,875	74,410,104	18,802,330
1987	460	16,733,510	74,066,369	18,659,459
1988	470	17,124,317	74,467,760	18,824,046

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 and handicapped) as estimated thereafter. Calendar year data.

3/ Calendar year 1970; 4-month period ended June 30, 1971; fiscal years ended June 30, 1972 to 1979; calendar years, 1980 forward. The fiscal year figure for 1980 was \$14,817,639.

4/ Passenger total excludes 2,277,502 zone fares.

5/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: HRT, Ltd., data provided by Hawaii State Department of Regulatory Agencies, Public Utilities Division; MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 521.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU:
1986 TO 1988

[Calendar year data for City and County of Honolulu bus system]

Fare category	1986	1987	1988
All passengers	74,410,104	74,066,369	74,467,760
Adults, full fare	42,296,391	42,489,644	43,182,518
Students	12,185,244	11,820,592	11,533,291
School subsidy	368,135	352,692	311,027
Stadium express	10,861	10,152	10,309
Senior citizens and handicapped	14,151,242	14,103,035	14,197,265
Chartered service	17,261	10,674	4,967
Free transfers	5,380,970	5,279,580	5,228,383

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

Table 522.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1989

[In dollars]

Effective date	Cash fares <u>1/</u>		Monthly passes	
	Adult	School	Adult	School
March 1, 1971 .....	.25	.15	...	...
March 2, 1971 .....	.25	.10	...	...
June 9, 1972 <u>2/</u> .....	.25, .50	.10, .25	...	...
March 15, 1974 .....	.25	.10	...	...
November 1, 1979 .....	.50	.25	15.00	7.50
June 18, 1984 <u>3/</u> .....	.60	.25	15.00	7.50

1/ In addition, there have been special fares for children, handicapped persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated.

3/ Current fares as of September 1, 1989.

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

Table 523.-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS (SIC 751)
ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987

Subject	State total <u>1/</u>		Counties (SIC 751)			
	SIC 751	SIC 7514	Hono-lulu	Hawaii	Kauai	Maui
No. of establishments ..	101	77	48	19	11	23
Receipts (mil. dol.) ...	243.3	231.1	134.5	23.5	23.9	61.4

1/ Most of the receipts for SIC 751 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Hawaii, SC87-A-12 (July 1989), tables 1a, 4a, 7, and 8a.

Table 524.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1988

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	7	7	6	2	1	11
Hawaii	2	2	1	-	-	6
Maui	1	1	-	1	-	1
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	1
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private helicopters (not available).

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

Table 525.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1978 TO 1988

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahalui Airport	Lihue Airport	Molokai Airport
1978	379,106	52,677	91,033	125,291	74,583	32,801
1979	412,739	51,703	92,235	127,477	71,033	72,024
1980	375,408	49,969	66,944	111,573	62,829	67,761
1981	339,359	53,274	57,488	102,760	59,404	61,876
1982	308,728	47,964	51,889	112,428	65,305	69,142
1983	333,038	54,470	66,581	124,288	71,739	54,882
1984	343,818	62,543	83,320	142,311	100,992	53,513
1985	357,511	61,225	93,879	157,231	131,755	56,048
1986	368,049	61,514	81,467	174,560	143,905	52,268
1987	385,275	80,123	67,497	165,920	134,495	50,829
1988	377,919	85,267	56,584	173,053	122,268	50,456

Source follows next table.

Table 526.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1988

[An FAA directive dated December 8, 1987 requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	377,919	185,282	60,628	91,971	40,038
Gen. Lyman	85,267	16,882	17,905	36,709	13,771
Kahalui	173,053	61,990	60,385	43,792	6,886
Lihue	122,268	34,169	71,133	8,468	8,498
Keahole	56,584	20,733	17,509	11,710	6,632
Molokai	50,456	7	39,962	8,473	2,014

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

Table 527.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS
AND ENPLANED PASSENGERS: 1986 AND 1987

Subject	Rank <u>1/</u>		Number	
	1986	1987	1986	1987
Total aircraft operations	21	16	367,938	385,260
Air carrier operations	19	17	191,890	216,044
Total enplaned passengers <u>2/</u> ...	17	17	7,352,027	7,773,253

1/ Among all FAA-operated airport traffic control towers in the United States.

2/ For large scheduled certificated air carriers, both scheduled and unscheduled operations.

Source: FAA Statistical Handbook of Aviation for 1986 (pp. 30 and 97) and 1987 (pp. 31 and 97).

Table 528.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING
HAWAII: 1986 TO 1989

[As of June 30. Includes both scheduled and nonscheduled services]

Service	1986 <u>1/</u>	1987 <u>2/</u>	1988 <u>2/</u>	1989 <u>2/</u>
All air carriers <u>3/</u>	32	33	34	44
Transpacific	30	27	27	32
Domestic	18	14	12	17
Foreign	12	13	15	15
Interisland	4	8	9	17
Passenger carriers	3	8	7	13
Cargo and mail only	1	-	2	4

1/ Excludes commuter lines and other air taxi service.

2/ Includes commuter lines and other air taxi service.

3/ Unduplicated totals. In 1989, five air carriers provided both transpacific and interisland service.

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

Table 529.-- CIVIL FLYING: 1984 TO 1987

Item	1984	1985	1986	1987
Aircraft facilities, Dec. 31	51	50	51	54
Airports	37	36	34	35
Heliports	14	14	17	19
Public aircraft facilities, Dec. 31 ...	14	16	18	18
Paved and lighted facilities, Dec. 31 .	12	12	12	12
Large aircraft in operation, Dec.	38	49	54	57
Aloha Airlines, Inc.	9	8	11	10
Hawaiian Airlines, Inc.	18	21	24	29
Mid Pacific Airlines, Inc.	11	20	19	18
General aviation: <u>1/</u>				
Active civil aircraft, Dec.	463	348	366	486
Standard error	143	109	118	140
Hours flown (1,000)	206	137	182	163
Standard error (1,000)	95	56	81	75
Active personnel, Dec. 31:				
Pilots, except instructors	3,187	3,256	3,327	3,373
Flight instructors	303	267	246	271
Nonpilot airmen <u>2/</u>	3,191	2,498	2,609	2,778

1/ Aircraft based in Hawaii. Data based on samples with specified standard errors.

2/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 530.-- OVERSEAS AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1978 TO 1988

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

Year	Overseas passengers <u>1/</u>			Inter- island passenger arrivals
	Arrivals	Departures	Through	
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
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687
1984 ..	5,263,213	5,261,373	727,947	7,632,239
1985 ..	5,317,862	5,293,528	858,501	7,878,598
1986 ..	6,041,078	6,083,508	841,241	8,340,048
1987 ..	6,265,211	6,317,747	1,109,850	8,802,594
1988 ..	6,653,346	6,713,621	1,421,707	8,964,878

1/ Includes West Coast, Canada, Europe, and the
Central and South Pacific.

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

Table 531.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND,
BY AIRPORT: 1988

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	6,713,621	6,653,346	142,391	123,587	13,882	15,514
Honolulu	6,125,170	6,018,891	136,648	113,150	13,831	15,510
General Lyman ...	-	-	-	-	-	-
Kahului	473,528	498,793	2,394	7,624	51	4
Keahole	74,772	84,978	3,229	2,545	-	-
Lihue	40,151	50,684	120	267	-	-
INTERISLAND						
Total	8,964,928	8,964,928	65,102	65,102	9,424	9,424
Honolulu	3,993,250	4,018,523	41,772	21,351	5,444	3,804
General Lyman ...	593,138	613,412	15,382	9,721	1,074	1,341
Waimea-Kohala ...	9,311	7,803	-	-	-	-
Keahole	845,864	817,935	2,801	6,337	737	1,126
Kahului	1,714,848	1,732,064	3,335	16,826	1,358	2,068
Hana	11,377	11,630	-	-	-	-
Molokai	165,038	166,965	319	380	57	7
Kalaupapa	7,131	6,547	2	12	-	-
Lanai	48,085	47,411	15	106	8	1
Lihue	1,318,869	1,310,823	1,404	10,059	683	1,075
Other airports <u>2/</u>	258,017	231,815	72	310	63	2

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,421,707, all through Honolulu International Airport).

2/ Princeville and Waikoloa.

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

Table 532.-- AIR CARGO AND AIRMAIL: 1978 TO 1988

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
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
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024
1984	196,215	153,654	23,356	29,497	111,472	16,282
1985	180,470	150,295	21,657	22,119	101,700	16,072
1986	200,255	184,894	22,842	23,725	114,657	16,913
1987	234,098	212,717	23,560	29,004	122,481	17,561
1988	284,783	247,174	27,764	31,028	130,203	18,847

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

Table 533.-- HELICOPTER TOURS: 1977 TO 1989

Subject	1977	1982	1985	1987	1988	1989
Companies	9	14	25	36	36	36
Aircraft	15	26	48	71	74	74

Source: Hawaii Helicopter Operators Association, records.

Table 534.-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: APRIL 23-29, 1989

[Data for the 539 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo	75	53	22
Osaka	21	21	-
Hong Kong	14	7	7
Manila	12	12	-
Singapore	10	10	-
Sydney	41	12	29
Auckland	19	5	14
Melbourne	21	21	-
Guam	17	17	-
Seattle	21	-	21
Portland	21	21	-
San Francisco	83	55	28
Los Angeles	143	92	51
Denver	16	14	2
Dallas/Fort Worth	28	-	28
Chicago	56	49	7
Atlanta	21	21	-
New York	42	42	-
All others	117	87	30

Source: Greeters of Hawaii, Jiffisked ... April 2-30, 1989.
 Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 535.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1987

[Year ended December 31, 1987. 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)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Los Angeles	2,568	20	1,040	3	2,674,043
Honolulu-Kahului	100	30	778	660	78,011
Honolulu-San Francisco	2,399	52	617	12	1,492,656
Honolulu-Lihue	102	63	564	824	58,589
Honolulu-Kona	169	109	380	742	65,371
Honolulu-New York	4,971	168	274	16	1,372,910
Honolulu-Seattle	2,678	259	199	54	550,478
Honolulu-Chicago	4,251	299	176	36	754,214
Honolulu-Las Vegas	2,762	407	128	102	357,893
Honolulu-Washington	4,828	590	87	80	427,247
Honolulu-Boston	5,095	696	74	96	383,467

1/ Includes all cities in Hawaii included in top U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, records.

Table 536.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS
BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1989

[Updated to October 11, 1989]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time ^{1/} (hours, min.)
	First class	Coach, weekend	Coach weekday	
1980: Jan. 1	302.12	209.08	199.08	5:02
June 1	319.13	221.09	211.08	5:02
Aug. 1	351.14	243.10	233.09	5:02
Oct. 1	365.11	252.08	252.08	5:02
1981: Jan. 20 ...	384.12	265.08	265.08	5:02
Mar. 31 ...	415.12	286.09	286.09	5:02
June 17 ...	425.13	296.09	296.09	5:02
Oct. 1	392.12	280.08	280.08	5:00
1982: Mar. 1	412.12	219.07	219.07	5:00
Apr. 1	412.12	310.09	310.09	5:00
June 1	412.12	328.10	328.10	5:00
Sept. 1 ...	415.16	331.13	331.13	5:00
1983: June 15 ...	415.16	353.14	353.14	5:00
1984: Sept.	415.00	353.14	353.14	5:00
Oct.	415.00	353.00	353.00	5:02
Dec.	454.00	364.00	364.00	5:02
1986: Nov. 14 ...	576.00	459.00	459.00	5:03
1987: Apr. 11 ...	588.00	469.00	469.00	5:00
June 5	598.00	479.00	479.00	5:00
June 30 ...	605.00	486.00	486.00	5:00
Aug. 7	613.00	494.00	494.00	5:00
1989: Feb. 4	718.00	514.00	514.00	5:06
June 3	733.00	524.00	524.00	5:05

^{1/} Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally.

Source: United Airlines, records.

Table 537.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO,
AND SEATTLE, FOR MAJOR AIRLINES: AUGUST 3, 1989

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	775	733	809
Coach (unrestricted)	457	433	476
United Airlines, round-trip:			
First class	1,550	1,466	1,618
Coach (unrestricted)	914	866	952
Major carriers, lowest round-trip:			
United Airlines <u>1/</u>	398	398	438
Lowest carrier	298	378	438
Highest carrier	398	398	438
Average	380	396	438

1/ Coach fare, restricted. Requires 14-day advance notice, departure only on Tuesday, Wednesday, or Thursday, and 30-day maximum stay. No one-way fare available.

Source: United Airlines, records; Sunday Star-Bulletin & Advertiser, August 6, 1989, p. F-6.

Table 538.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1982 TO 1989

[Updated to October 2, 1989]

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7
FARES <u>2/</u>						
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28	52.95	38.95	52.95	38.95	52.95	38.95
July 1	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1	46.95	38.95	46.95	38.95	46.95	38.95
1987: Mar. 1	48.95	46.95	48.95	46.95	48.95	46.95
1988: Oct. 31	41.95	39.90	41.95	39.90	41.95	39.90
1989: Feb. 1	41.95	41.95	41.95	41.95	41.95	41.95
May 8	44.95	44.95	44.95	44.95	44.95	44.95
Aug. 1	44.95	44.95	44.95	44.95	44.95	44.95
FLIGHT TIMES <u>3/</u>						
1982-1984	26	34	27	34	40	60
1985-1987	25	33	26	33	40	58
1988-1989	27	44	27	41	41	<u>4/</u> 155

1/ DC-9-50 and DC-9-80 from May 1981 through 1985; DC-9-15, DC-9-50, and DC-9-80 thereafter.

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

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

4/ Includes three stopovers (Molokai, Kapulua, and Kahului).

Source: Hawaiian Airlines, records.

Table 539.-- STATE COMMERCIAL HARBORS: 1989

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	2,787	122	496
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	3,019	124	703
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	} 45	{ 40	3,300	1,520	} 28,007	1,734	7,812
Kapalama			3,400	1,000			
Barbers Point .			2,100	1,800			
Barbers Point .	42	38			-	-	-
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,291	66	291
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 17, 1989.

Table 540.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1988

Subject	Number	Subject	Number
Certificates outstanding .	14,250	Type of vessel:	
Length:		Cabin motorboat	2,069
Under 16 feet	5,758	Open motorboat	5,201
16 to less than 20 feet	4,155	Runabout	2,867
20 to less than 40 feet	4,124	Sail/inboard	459
Over 40 feet	213	Sail/outboard	564
Median (feet)	17.3	Sail only	1,299
Hull material:		Motor vessel over 65 feet .	5
Wood	1,518	Other	1,786
Fiberglass	10,909	Uses:	
Metal	527	Pleasure	12,163
Inflatable	1,062	Commercial fishing	1,131
Other	234	Charter fishing	25
Propulsion:		Commercial passenger	239
Inboard	1,006	Other commercial	61
Outboard	8,357	Livery	248
Inboard/outboard	2,093	Dealer or manufacturer ...	38
Sail/inboard	597	Youth group	37
Sail/outboard	623	Government	249
Sail only	1,063	Other	59
Manual	248	Island kept:	
Other	263	Hawaii	1,972
Type of storage:		Kauai	1,111
On water	2,588	Lanai	53
On land	11,662	Maui	1,303
		Molokai	187
		Oahu	9,624

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

Table 541.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1984 TO 1989

Category	1984	1985	1986	1987	1988	1989
Documented <u>1/</u>	1,203	1,306	1,348	1,389	1,380	1,600
Numbered <u>2/</u>	13,122	13,443	14,052	14,008	14,250	...

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. As of December 31, 1978 and June 30 thereafter.

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. All data as of December 31.

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

Table 542.-- BOATING ACCIDENTS: 1985 TO 1988

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1985	41	2	5	10	50	417.3
1986	54	3	3	14	69	293.0
1987	62	1	2	18	76	720.2
1988	31	4	5	11	41	209.6

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, Reportable Boating Accident Statistics for the State of Hawaii for Period 1986 thru 1988 (Revised) and records.

Table 543.-- HARBOR DEPTHS AND VESSEL ARRIVALS, BY DRAFT: 1987

[Excludes domestic fishing craft]

Harbor	Controlling depth (feet)		Inbound vessels, by draft		
	Entrance channel	Basin	Total	18 feet and less	19 feet and more
Hilo .....	...	34.0	915	854	61
Kawaihae	42.0	36.0	556	533	23
Hana .....	...	...	-	-	-
Kahului .....	...	34.0	1,388	1,350	38
Kaunakakai .....	...	...	664	(NA)	(NA)
Kalaupapa .....	...	...	7	7	-
Honolulu	45.0	40.0	<u>1/</u> 5,898	5,239	659
Barbers Point ..	42.0	38.0	438	333	105
Nawiliwili	41.0	33.0	723	706	17
Port Allen .....	...	...	65	(NA)	(NA)

NA Not available.

1/ By type of vessel: self propelled, 3,108 (953 passenger and dry cargo, 70 tanker, 2,085 towboat or tugboat); non-self propelled, 2,790 (2,175 dry cargo, 615 tanker).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1987, Part 4 (1989), pp. 31-36 and 112-113.

Table 544.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1979 TO 1989

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085
1985	1,749	9,398,179	2,412	4,480,660
1986	1,825	9,450,373	2,697	4,913,219
1987	2,080	9,974,948	2,848	5,200,667
1988	2,014	10,548,893	3,172	(NA)
1989	2,024	11,219,662	3,101	(NA)

NA Not available.

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

Table 545.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND
DEPARTURES, FOR HONOLULU HARBOR: 1984 TO 1989

[Fiscal years ended June 30]

Type of passenger	1984	1985	1986	1987	1988	1989
Overseas:						
In	9,492	5,337	6,537	8,681	5,815	15,993
Out	5,906	5,276	6,190	8,103	5,350	16,716
Interisland:						
In	58,571	72,665	84,943	71,049	77,731	78,710
Out	59,293	74,304	82,895	69,337	71,804	78,711

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

Table 546.-- OVERSEAS AND INTERISLAND SHIPPING: 1982 TO 1987

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444
1984 ...	11,506,043	8,972,870	2,533,173	8,973,092	4,530,456	4,442,636
1985 ...	11,647,021	9,098,694	2,548,327	7,839,743	3,836,113	4,003,630
1986 ...	10,521,866	8,451,641	2,070,225	8,464,107	4,241,904	4,222,203
1987 ...	12,379,815	9,767,966	2,611,849	10,358,749	5,071,134	5,287,615

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual) and printouts, as tabulated by the Hawaii State Department of Transportation, Harbors Division.

Table 547.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1983 TO 1987

Harbor	1983	1984	1985	1986	1987
FREIGHT <u>1/</u> (SHORT TONS)					
Hilo	1,522,442	1,570,528	1,318,518	1,198,692	1,365,768
Kawaihae	441,458	545,508	526,639	592,018	871,202
Kahului	1,842,568	1,889,204	1,516,509	1,626,650	2,035,247
Honolulu	8,039,850	8,469,971	7,986,133	8,603,760	9,736,688
Barbers Point	7,051,230	6,564,687	6,751,709	5,629,312	7,135,064
Nawiliwili	1,008,699	944,770	933,477	745,396	916,422
PASSENGERS <u>2/</u>					
Honolulu	688,689	741,922	1,102,398	708,268	154,082

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

2/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1987, Part 4 (1989), pp. 31-36.

Table 548.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1987

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Hilo	1,365,768	60,825	16,237	9,335	104,251	895,809	279,311
Petro. & coal prod. NEC .	241,989	-	-	-	-	241,989	-
Fabricated metal products	250,431	1,388	-	-	-	126,863	122,175
Kawaihae	871,202	42,505	29,849	2,937	287,121	297,353	211,437
Sugar	287,121	-	-	-	287,121	-	-
Fabricated metal products	188,161	715	-	38	-	98,525	88,921
Kahului	2,035,247	41,096	9,371	15,122	254,323	1,202,270	513,065
Sugar	255,196	-	-	-	254,323	-	873
Petro. & coal prod. NEC .	284,689	-	-	-	-	280,174	4,515
Fabricated metal products	309,143	2	5	18	-	187,892	121,226
Motor vehicles, parts, and equipment	191,518	2,234	3	32	-	126,399	62,850
Kaunapali	243,504	-	-	1,004	-	52,450	190,050
Fresh fruits	188,732	-	-	-	-	101	188,631
Barbers Point	7,135,064	2,812,968	323,911	3,331,927	329,242	44,891	292,125
Crude petroleum	5,319,708	2,365,264	-	2,954,444	-	-	-
Distillate fuel oil	440,152	24,438	82,890	159,950	130,752	4,718	37,404
Residual fuel oil	1,046,392	409,449	227,057	179,253	81,287	21,340	128,006
Honolulu	9,736,688	683,679	226,639	2,749,993	900,041	1,797,864	3,157,369
Fresh fruits	322,282	1,570	30	17,583	82,620	218,730	1,749
Crude petroleum	221,091	134,133	-	86,958	-	-	-
Meat, fresh, chilled, frozen	162,573	6,879	1,728	129,608	24,358	-	-
Vegetables & prep. NEC ..	196,503	3,606	238	111,434	6,663	43,478	31,084
Prepared fruit & vege- table juice NEC	457,342	3,761	3,936	6,296	308,104	133,652	1,593
Animal feeds	150,770	26,606	416	64,797	-	4,914	54,037

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Continued on next page.

Table 548.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1987 - Con.

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Honolulu - Con.							
Sugar	184,150	101	344	1,581	181,073	830	221
Molasses	180,167	-	7,817	-	122,916	49,434	-
Alcoholic beverages	216,895	6,792	780	168,564	771	155	39,833
Lumber	260,126	127	3,089	188,151	1,361	2,613	64,785
Gasoline	233,702	24,310	9,843	60,079	6,489	16,760	109,093
Jet fuel	387,158	117,161	-	198,662	-	32,603	38,732
Distillate fuel oil	266,341	5,234	71,736	58,169	19,298	37,407	74,497
Residual fuel oil	393,243	-	4,729	485	3,948	128,006	42,242
Petro. & coal prod. NEC .	650,977	3	-	23,631	4,639	24,742	597,962
Fabricated metal product	1,179,151	7,549	787	74,773	1,492	484,345	610,205
Motor vehicles, parts, equipment	693,177	44,942	232	91,971	37,128	142,666	376,238
Pearl Harbor	136,124	-	-	2,073	3,564	24,268	106,219
Nawiliwili	908,588	-	-	5,524	127,294	534,704	241,066
Fabricated metal products	268,973	-	-	32	-	135,026	133,915
Kalaupapa	1,533	-	-	1,191	342	-	-
Kaunakakai	211,166	-	-	1,150	134,488	75,528	-
Port Allen	85,846	-	-	-	-	85,846	-

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NA Not available.

1/ Includes internal shipments and local traffic, not separately shown. Such movements amounted to 221,103 tons, all at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1987, Part 4 (May 1989), pp. 31-37, and unpublished printouts.