

## 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 672,000 in 1982 to 886,000 in 1992. Vehicle miles rose during the decade ending in 1991 from 5.9 billion to 8.1 billion. Hawaii residents purchased 87,000 new passenger cars and 12,000 trucks in 1991. By the end of that year, 700,000 licensed drivers had access to 4,102 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 73.5 million in 1981 to 76.5 million in 1991.

Almost all scheduled interisland travel is by air. In 1991, airlines and air taxis reported 9.4 million interisland passengers, some 39 percent more than in 1981, and carried 72,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,500 active pilots, and about 600 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1991, 7,136,000 overseas passengers arrived by air, a 10-year growth of 66 percent. Overseas air cargo received that year weighed 171,000 tons.

Undocumented State-registered vessels as of December 31, 1991 numbered 13,592, compared with 8,000 in 1970. Median length was 18.1 feet, and five-sixths were stored on land. There were 1,775 documented vessels in the State in 1991, triple the 1970 total. Overseas vessels brought 15,700 passengers into the State in 1992. Receipts of cargo in 1989 included 10.4 million tons in overseas cargo and 5.7 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. Another source of long-term trend information is What People Paid to Travel, published by the Hawaiian Historical Society in 1991. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1992, Sections 21 and 22.

Table 501.-- HIGHWAY DISTANCES: 1992

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	OAHU <u>1/</u>	
Hilo-Kailua, via Saddle Rd. ..	84.3	Honolulu-Ala Moana Center .....	1.6
Hilo-Kailua, via Hamakua .....	91.2	Honolulu-UH, via King Street ....	3.2
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-Waikiki .....	3.2
Hilo-Waimea, via Hamakua .....	55.3	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Nuuanu ..	13.3
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Kailua, via Nuuanu .....	11.6
Waimea-Hawi .....	21.4	Honolulu-Kaneohe, via Kalihi ....	10.8
Waimea-Kawaihae .....	11.5	Honolulu-Kahuku, via Kahaluu ....	36.2
Kawaihae-Hawi .....	18.0	Honolulu-Kahuku, via Wahiawa ....	46.2
Kawaihae-Kailua .....	48.4	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keahole Airport .....	6.8	Honolulu-Kaena Pt., via Waianae .	44.3
Kailua-Keauhou .....	6.9	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	KAUAI	
Wailuku-Lahaina, via Olowalu .	20.9	Lihue-Haena .....	38.0
Kahului-Kihei .....	7.9	Lihue-Wailua .....	5.9
Lahaina-Wailea .....	32.4	Lihue-Lihue Airport .....	2.0
Lahaina-Napili .....	8.9	Lihue-Poipu .....	11.9
Lahaina-Kaanapali .....	3.7	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 South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

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

Table 502.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:  
1970 TO 1991

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

Category	1970	1975	1980	1985	1990	1991
Total mileage ...	3,529	3,743	3,912	4,070	4,101	4,102
Paved .....	3,047	3,355	3,591	3,808	3,887	3,888
Unpaved .....	482	389	321	262	214	214

Source follows next table.

Table 503.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,  
BY ISLANDS: DECEMBER 31, 1991

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

Island	Total mileage	Paved		Unpaved
		Free-ways <u>1/</u>	Other	
State total .....	4,101.72	96.55	3,791.16	214.01
Hawaii <u>2/</u> .....	1,446.97	7.04	1,364.55	75.38
Maui .....	597.40	3.21	537.49	56.70
Lanai .....	46.68	-	32.68	14.00
Molokai .....	129.29	-	117.29	12.00
Oahu .....	1,467.98	86.30	1,348.24	33.44
Kauai .....	413.40	-	390.91	22.49
Niihau .....	-	-	-	-

1/ Classified as interstate and freeways and expressways.

2/ Data exclude Chain of Craters Road, closed due to volcanic eruption.

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

Table 504.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1991

Island	Number of bridges <u>1/</u>	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	700	Airport Viaduct .	14,890	Nanue .....	208
Hawaii .....	129	Hakalau .....	775	Nanue .....	208
Maui .....	93	Honokahua .....	600	Uaoa .....	79
Lanai .....	-	None .....	...	None .....	...
Molokai .....	19	Manawainui .....	360	Manawainui .....	50
Oahu .....	406	Airport Viaduct .	14,890	Kipapa .....	156
Kauai .....	53	Hanamaulu .....	1,150	Wahiawa, Koloa	90

1/ Limited to bridges under State jurisdiction and 20 feet or longer.

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

Table 505.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1991

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 506.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1982 TO 1992

[Taxable and non-taxable. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles <u>1/</u>	Ambulances, hearses, patrol wagons	Buses
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
1989 ....	876,848	855,057	695,397	54	4,203
1990 ....	911,283	889,096	718,204	55	4,308
1991 ....	920,124	897,193	717,907	54	4,309
1992 ....	908,738	885,761	703,983	53	4,282
		Motor vehicles -- continued			
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters <u>2/</u>	Trailers and semi-trailers
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
1989 ....	141,845	1,107	292	12,159	21,791
1990 ....	152,453	1,043	313	12,720	22,187
1991 ....	159,831	972	323	13,797	22,931
1992 ....	160,952	871	298	15,322	22,977

Footnotes and source on next page.

Table 506.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:  
1982 TO 1992 -- Con.

NA Not available.

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

Table 507.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:  
1982 TO 1992

[Taxable and non-taxable. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers. Also includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
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
1989 .....	855,057	599,379	103,724	51,455	100,499
1990 .....	889,096	612,742	110,834	55,927	109,593
1991 .....	897,193	613,119	113,265	57,751	113,058
1992 .....	885,761	611,513	113,080	51,165	110,003

Source: City and County of Honolulu, Department of Data Systems, records.

Table 508.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:  
1990 TO 1992

[Taxable and non-taxable. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1990 (revised)					
All vehicles .....	911,283	625,373	115,460	58,182	112,268
Motor vehicles .....	889,096	612,742	110,834	55,927	109,593
Passenger vehicles <u>1/</u> .....	718,204	497,661	88,037	44,522	87,984
Ambulances .....	55	37	10	1	7
Buses .....	4,308	3,476	258	96	478
Trucks <u>1/</u> .....	152,453	101,253	20,686	10,629	19,885
Truck tractors .....	1,043	466	244	112	221
Truck cranes .....	313	109	51	35	118
Motorcycles <u>2/</u> .....	12,720	9,740	1,548	532	900
Trailers and semi-trailers ..	22,187	12,631	4,626	2,255	2,675
1991					
All vehicles .....	920,124	626,052	118,171	60,108	115,793
Motor vehicles .....	897,193	613,119	113,265	57,751	113,058
Passenger vehicles <u>1/</u> .....	717,907	494,177	88,140	45,688	89,902
Ambulances .....	54	36	10	1	7
Buses .....	4,309	3,530	234	76	469
Trucks <u>1/</u> .....	159,831	104,573	22,757	11,277	21,224
Truck tractors .....	972	425	222	101	224
Truck cranes .....	323	114	44	30	135
Motorcycles <u>2/</u> .....	13,797	10,264	1,858	578	1,097
Trailers and semi-trailers ..	22,931	12,933	4,906	2,357	2,735

Continued on next page.

Table 508.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:  
1990 TO 1992 -- Con.

[Taxable and non-taxable. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1992					
All vehicles .....	908,738	624,390	118,128	53,624	112,596
Motor vehicles .....	885,761	611,513	113,080	51,165	110,003
Passenger vehicles <u>1/</u> .....	703,983	489,093	86,897	41,778	86,215
Ambulances .....	53	34	10	-	9
Buses .....	4,282	3,558	203	68	453
Trucks <u>1/</u> .....	160,952	107,027	23,675	8,543	21,707
Truck tractors .....	871	377	210	91	193
Truck cranes .....	298	115	33	27	123
Motorcycles <u>2/</u> .....	15,322	11,309	2,052	658	1,303
Trailers and semi-trailers ..	22,977	12,877	5,048	2,459	2,593

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

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

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

Table 509.-- TRUCK CHARACTERISTICS: 1977, 1982, AND 1987

[Percent]

Vehicular and operational characteristics	1977	1982	1987 <sup>1/</sup>
Major use: Personal transportation .....	50.0	54.3	60.5
Body type: Pickup, panel, or mini-van .....	85.1	89.1	91.2
Vehicle size: Light .....	89.0	92.9	94.6
Annual miles: Less than 10,000 .....	54.1	59.7	57.0
Year model: Over 4 years old .....	68.1	75.8	62.1
Vehicle acquisition: Purchased new .....	54.6	47.3	49.6
Fleet size: 1 truck .....	64.0	72.3	64.4
Truck type: Single-unit, 2 axles .....	95.7	96.6	96.4
Range of operation: Local .....	87.3	78.2	80.2
Fuel type: Diesel and LPG .....	4.6	3.7	5.4

<sup>1/</sup> There were 160,800 trucks in Hawaii in 1987, which traveled 1,550.5 million truck miles, or 9,600 per truck.

Source: U.S. Bureau of the Census, 1987 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC87-T-12 (March 1990), tables 1 and 2.

Table 510.-- VEHICLE DENSITIES: 1970 TO 1991

Measure	1970	1975	1980	1985	1990	1991
Motor vehicles per --						
1,000 persons <sup>1/</sup> .....	506	532	585	657	707	702
Mile of street or highway .....	115	134	158	184	219	219
Persons per <sup>1/</sup> --						
Motor vehicle .....	2.0	1.9	1.7	1.5	1.4	1.4
Mile of street or highway .....	226	252	270	280	307	311

<sup>1/</sup> Based on de facto population.

Source: Hawaii State Department of Transportation, Highways Division, records; Hawaii State Data Center population estimates.

Table 511.-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,  
BY COUNTIES: 1990

County	All occupied units	None	1	2	3 or more
State total .....	356,267	35,159	128,513	127,011	65,584
Hawaii .....	41,461	3,100	14,676	16,154	7,531
Honolulu .....	265,304	29,406	98,542	91,032	46,324
Kalawao .....	62	26	6	24	6
Kauai .....	16,295	777	4,573	6,699	4,246
Maui .....	33,145	1,850	10,716	13,102	7,477

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 4.

Table 512.-- NEW PASSENGER CARS AND MOTOR TRUCKS  
REGISTERED: 1986 TO 1991

Year	Total	Passenger cars	Motor trucks
1986 .....	68,060	49,680	18,380
1987 .....	73,138	51,446	21,692
1988 .....	78,454	56,278	22,176
1989 .....	84,485	59,893	24,592
1990 .....	97,754	71,950	25,804
1991 .....	97,267	71,924	25,343

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 513.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,  
BY COUNTIES: 1986 TO 1991

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
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
1989 .....	85,425	52,855	13,733	11,362	7,475
1990 <u>1/</u> .....	102,821	57,524	19,737	14,527	11,033
1991 .....	98,698	52,002	21,054	14,389	11,253

1/ For unknown reasons, total differs somewhat from total in tables 514 and 515.

Source: Hawaii Automobile Dealers Association, HADA Yearbook (annual), as revised.

Table 514.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY NAMEPLATE:  
1990 AND 1991

Nameplate	1990: total		1991			
	Rank	Number	Total		Retail	Fleet <u>1/</u>
			Rank	Number		
All nameplates ..	...	102,721	...	98,698	47,783	50,915
Chevrolet .....	1	19,218	1	21,436	4,584	16,852
Ford .....	3	10,265	2	17,534	7,363	10,171
Pontiac .....	2	13,858	3	9,517	713	8,804
Honda .....	5	6,200	4	6,361	6,361	-
Nissan .....	6	5,355	5	6,352	4,214	2,138
Toyota .....	4	7,056	6	6,057	5,671	386
All others .....	...	40,769	...	31,441	18,877	12,564

1/ "Program" cars sold to car rental companies through local and mainland dealers.

Source: Hawaii Automobile Dealers Association, 1992 HADA Yearbook, pp. 4 and 6, as corrected.

Table 515.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY PLACE OF MANUFACTURE: 1990 AND 1991

Year and place of manufacture	Cars and trucks	Cars			Trucks (all retail)
		Total	Retail	Fleet	
1990, total .....	102,721	87,481	39,304	48,177	15,240
Domestic .....	70,718	61,208	16,290	44,918	9,510
Imports .....	32,003	26,273	23,014	3,259	5,730
Percent .....	31.2	30.0	58.6	6.8	37.6
1991, total .....	98,698	86,616	35,701	50,915	12,082
Domestic .....	70,026	62,438	14,236	48,202	7,588
Imports .....	28,672	24,178	21,465	2,713	4,494
Percent .....	29.1	27.9	60.1	5.3	37.2

Source: Hawaii Automobile Dealers Association, 1992 HADA Yearbook, pp. 4-5.

Table 516.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1986 TO 1991

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
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
1989 .....	657,156	478,078	78,448	34,963	65,667
1990 .....	677,626	488,119	82,730	37,026	69,751
1991 .....	699,664	501,260	86,181	38,894	73,329

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

Table 517.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE  
AND SEX: DECEMBER 31, 1991

Age	Both sexes	Male	Female
Total .....	699,664	377,424	322,240
15 to 19 years .....	37,735	20,932	16,803
20 to 24 years .....	66,159	35,791	30,368
25 to 34 years .....	168,987	88,579	80,408
35 to 44 years .....	169,663	88,638	81,025
45 to 54 years .....	107,060	57,403	49,657
55 to 64 years .....	74,891	40,127	34,764
65 to 74 years .....	55,582	32,622	22,960
75 to 84 years .....	17,968	12,132	5,836
85 years and over .....	1,619	1,200	419
Median age (years) .....	39.5	39.9	39.1

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

Table 518.-- LICENSED DRIVERS PER 100 RESIDENT POPULATION,  
BY AGE AND SEX: 1991

Age	Both sexes	Males	Females
All ages, 15 years and over .....	78	83	73
15 to 24 years .....	62	62	62
25 to 44 years .....	87	89	86
45 to 64 years .....	87	97	78
65 years and over .....	58	75	43

Source: Calculated from tables 21 and 517.

Table 519.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:  
1981 TO 1991

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>
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
1989 .....	395,945	463	7,748.1	9,062
1990 .....	395,185	444	8,065.4	9,071
1991 .....	406,819	453	8,142.2	9,075
COUNTIES: 1991				
Honolulu .....	270,757	444	5,402.0	8,849
Hawaii .....	62,624	547	1,116.8	9,754
Kauai .....	24,401	413	609.7	10,317
Maui .....	49,037	434	1,013.7	8,962

NA Not available.

1/ Includes gasoline, 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 520.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU  
SURVEY SITES: 1989 TO 1991

Site	1989	1990	1991
Pali Highway at tunnels .....	51,503	50,590	61,046
Likelike Highway at tunnels .....	57,025	54,296	60,217
H-1 Freeway at Manoa-Palolo Drainage Canal <u>1/</u> .....	128,273	123,621	123,915
H-1 Freeway at Kapalama Drainage Canal Bridge .....	193,254	193,983	208,530
Nimitz Highway at Kapalama Drainage Canal Bridge .....	79,870	73,188	81,593
Kalaniana'ole Highway east of Ainakoa Ave. ....	79,275	80,135	77,703

1/ Includes Kapiolani on- and off-ramps.

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

Table 521.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1986 TO 1991  
[Average speeds, in miles per hour. Years ended September 30]

Year	State-wide	Urban inter-state	Rural	
			Arterials <u>1/</u>	Major collectors
1986 .....	55.1	58.4	51.4	52.6
1987 .....	55.0	58.4	51.3	52.1
1988 .....	56.2	59.5	52.0	52.3
1989 .....	55.7	58.2	52.4	53.1
1990 .....	56.7	58.9	53.5	54.9
1991 .....	<u>2/</u> 55.0	57.0	52.0	52.1

1/ Other than freeways and expressways.

2/ The corresponding U.S. average was 56.6. Hawaii ranked 44th among the 50 States.

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

Table 522.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1980 TO 1990, AND BY COUNTIES, 1990

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
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
1988 .....	26,039	129	12,801	149
1989 .....	26,893	127	12,834	147
1990 .....	26,633	154	14,060	176
COUNTIES: 1990				
Honolulu .....	19,753	77	9,397	88
Hawaii .....	4,015	44	2,535	47
Kauai .....	942	9	629	9
Maui .....	1,923	24	1,499	32

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 523.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:  
1991

[As of December 31]

Island	Taxicabs <u>1/</u>	Bicycles and mopeds <u>2/</u>
Hawaii .....	87	10,918
Maui .....	157	2,837
Lanai .....	2	159
Molokai .....	5	192
Oahu .....	1,702	93,466
Kauai .....	-	2,900

1/ Licensed during the calendar year. Taxicabs are licensed annually, except in Kauai County, where registration is not required.

2/ Bicycles with wheels having a diameter of 20 inches or more and all mopeds, both of which were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially; see SLH 1988, Act 264, sec. 1.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County departments of finance.

Table 524.-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY  
SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1992

[Average rates for nonresidents, including collision damage waiver insurance, reported by Avis, Hertz, National, and Alamo]

Date	Sub-compact	Compact	Mid-size	Full-size
October 18, 1989 .....	37.93	38.92	43.68	48.94
August 13, 1990 .....	39.97	46.46	49.71	57.21
August 28, 1991 .....	30.62	34.19	37.44	43.19
September 3, 1992 .....	46.49	45.96	50.71	57.96

Source: Information provided by listed companies.

Table 525.-- 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 526.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1992

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 .....	501	2,856	61,140	2,741	14,647
Hawaii .....	37	233	6,377	523	2,954
Maui .....	73	497	10,824	380	1,953
Honolulu .....	367	1,903	38,788	1,652	8,696
Kauai .....	24	223	5,151	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 527.-- PUBLIC TRANSIT, FOR OAHU: 1981 TO 1991

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Total passengers <u>2/</u>	Revenues (dollars)
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
1989 .....	475	17,525,608	74,964,453	18,843,083
1990 .....	475	18,080,500	75,648,930	18,914,500
1991 .....	475	18,308,282	76,540,997	19,283,803

1/ Estimated number of revenue vehicle miles.

2/ Estimated number of revenue passengers, including senior citizens and handicapped.

Source: City and County of Honolulu, Honolulu Public Transit Authority.

Table 528.-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1989 TO 1991

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

Fare category	1989	1990	1991
All passengers .....	74,964,453	75,648,930	76,540,997
Adults, full fare .....	43,699,952	44,508,635	45,539,491
Students .....	11,558,225	11,301,854	11,021,547
School subsidy .....	242,201	212,211	191,298
Stadium express .....	11,249	7,894	7,551
Senior citizens and handicapped .....	14,319,192	14,454,242	14,642,226
Free transfers .....	5,133,592	5,164,094	5,138,884
Average bus speed (m.p.h.)	15.0	15.0	15.0

Source: City and County of Honolulu, Honolulu Public Transit Authority.

Table 529.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1992

[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 December 7, 1992.

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

Table 530.-- STEAM RAILROAD MILEAGE AND PASSENGERS:  
1981 TO 1991

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

Calendar year	Miles of track	Passengers	Calendar year	Miles of track	Passengers
1981 ....	6	128,178	1987 ....	6	244,555
1982 ....	6	155,059	1988 ....	6	285,139
1983 ....	6	171,892	1989 ....	6	296,391
1984 ....	6	197,876	1990 ....	6	308,910
1985 ....	6	199,759	1991 ....	6	316,079
1986 ....	6	215,735			

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

Table 531.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:  
DECEMBER 31, 1991

Island	Airports <u>1/</u>				Heliports <u>2/</u>	
	State		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	7	7	6	2	-	13
Hawaii .....	2	2	1	-	-	8
Maui .....	1	1	-	1	-	-
Kahoolawe .....	-	-	-	-	-	-
Lanai .....	1	-	-	-	-	-
Molokai .....	1	1	-	-	-	-
Oahu .....	1	2	3	-	-	1
Kauai .....	1	1	1	1	-	2
Niihau .....	-	-	-	-	-	2
Kure Atoll .....	-	-	1	-	-	-

1/ Excludes private airports (not available).

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

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

Table 532.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:  
1981 TO 1991

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport <u>1/</u>	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
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
1989 .....	403,635	93,202	55,674	177,803	116,742	47,208
1990 .....	407,048	98,755	60,086	182,686	113,860	43,509
1991 .....	403,566	88,206	56,140	180,857	112,679	47,898

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

Source follows next table.

Table 533.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS  
AND ENPLANED PASSENGERS: 1989 AND 1990

Subject	Rank <u>1/</u>		Number	
	1989	1990	1989	1990
Total aircraft operations .....	16	17	403,738	407,093
Air carrier operations .....	19	22	194,354	194,455
Total enplaned passengers <u>2/</u> ...	14	15	8,943,521	9,002,217

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

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

Source: FAA Statistical Handbook of Aviation (annual).

Table 534.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1991

[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 ..	403,566	196,037	65,390	113,799	28,340
Hilo International .....	88,206	19,596	38,504	20,802	9,304
Kahului .....	180,857	51,668	74,410	49,717	5,062
Lihue .....	112,679	30,825	64,341	11,027	6,486
Keahole .....	56,140	26,478	11,069	15,265	3,328
Molokai .....	47,898	124	35,304	10,367	2,103

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

Table 535.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1989 TO 1992

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1989	1990	1991	1992
All carriers .....	44	43	43	45
Transpacific only .....	27	26	25	25
Domestic .....	12	11	10	9
Foreign .....	15	15	15	16
Transpacific and interisland .....	5	4	5	5
Interisland only .....	12	13	13	15
Passenger carriers .....	8	9	9	9
Cargo and mail only .....	4	4	4	6

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

Table 536.-- CIVIL FLYING: 1987 TO 1990

Item	1987	1988	1989	1990
Aircraft facilities, Dec. 31 .....	54	54	53	50
Airports .....	35	35	34	34
Heliports .....	19	19	19	16
Public aircraft facilities, Dec. 31 ...	18	18	17	16
Paved and lighted facilities, Dec. 31 .	12	12	12	12
Large aircraft in operation, Dec. ....	57	51	51	52
Aloha Airlines .....	10	12	13	17
Hawaiian Airlines .....	29	31	31	35
Mid Pacific Airlines .....	18	8	7	-
General aviation: <u>1/</u>				
Active civil aircraft, Dec. ....	486	600	519	561
Hours flown (1,000) .....	163	426	290	278
Active personnel, Dec. 31:				
Pilots, except instructors .....	3,373	3,598	3,814	3,505
Flight instructors .....	271	293	284	309
Nonpilot airmen <u>2/</u> .....	2,778	3,008	3,185	3,306

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

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

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

Table 537.-- OVERSEAS AND INTERISLAND AIR  
PASSENGER MOVEMENTS: 1981 TO 1991

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

Year	Overseas passengers <u>1/</u>			Inter- island passenger arrivals
	Arrivals	Departures	Through	
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	8,964,928
1989 ..	7,022,986	7,234,653	1,167,954	9,634,077
1990 ..	7,310,635	7,562,156	1,065,408	9,907,154
1991 ..	7,135,595	7,215,323	1,020,465	9,368,576

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

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

Table 538.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND,  
BY AIRPORT: 1991

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total .....	7,215,323	7,135,595	153,188	171,015	16,829	22,141
Honolulu .....	6,457,548	6,341,675	142,674	158,211	16,829	22,135
Hilo .....	-	-	218	117	-	-
Kahului .....	551,558	580,305	6,511	8,351	-	6
Keahole .....	128,630	134,006	3,515	3,068	-	-
Lihue .....	77,587	79,609	270	1,268	-	-
INTERISLAND						
Total .....	9,368,576	9,368,576	72,052	72,052	11,836	11,836
Honolulu .....	4,195,036	4,209,871	47,597	21,615	7,144	4,684
Hilo .....	709,223	730,588	14,359	10,505	1,165	1,756
Upolu .....	-	3	2	5	-	-
Waimea-Kohala ...	7,275	6,374	-	4	-	-
Keahole .....	941,346	914,795	3,209	8,478	945	1,480
Kahului .....	1,812,791	1,797,247	4,890	18,088	1,690	2,527
Hana .....	11,829	11,854	-	25	-	-
Molokai .....	159,686	156,890	367	587	69	31
Kalaupapa .....	7,421	7,440	1	25	-	-
Lanai .....	63,125	64,332	63	1,542	14	3
Lihue .....	1,270,073	1,269,480	1,411	10,699	809	1,355
Other airports <u>2/</u>	193,567	196,906	153	479	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,020,465, passing through Honolulu International Airport).

2/ Privately owned.

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

Table 539.-- AIR CARGO AND AIRMAIL: 1981 TO 1991

[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
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
1989 .....	313,402	301,674	28,258	33,542	146,960	20,706
1990 .....	295,326	337,724	32,022	38,198	145,418	22,848
1991 .....	306,376	342,032	33,658	44,281	144,104	23,673

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

Table 540.-- HELICOPTER TOURS: 1977 TO 1992

Subject	1977	1982	1987	1989	1990	1991	1992
Companies .....	9	14	36	36	37	33	31
Aircraft .....	15	26	71	74	78	90	91

Source: Hawaii Helicopter Operators Association, records.

Table 541.-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JANUARY 1993

[Data for the 643 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo .....	84	63	21
Nagoya .....	17	17	-
Osaka .....	20	20	-
Taipei .....	12	7	5
Seoul .....	28	21	7
Singapore .....	5	5	-
Hong Kong .....	-	-	-
Manila .....	20	20	-
Sydney .....	45	36	9
Auckland .....	38	24	14
Melbourne .....	9	2	7
Guam .....	21	18	3
Vancouver .....	30	30	-
Toronto .....	8	8	-
Detroit .....	21	21	-
Seattle .....	21	14	7
Portland .....	7	7	-
San Francisco .....	80	58	22
Los Angeles .....	149	99	50
Denver .....	3	-	3
Dallas/Fort Worth .....	28	21	7
Chicago .....	42	35	7
Atlanta .....	12	12	-
New York .....	-	-	-
All others .....	155	102	53

Source: Greeters of Hawaii, Jiffisked<sup>[tm]</sup> January 1993. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 542.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1984 TO 1992

[Updated to December 25, 1992. For historical data, see Robert C. Schmitt, What People Paid to Travel (Hawaiian Historical Society, 1991), pp. 40-41]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time <sup>1/</sup> (hours, min.)
	First class	Coach, weekend	Coach weekday	
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
1990: Jan. 4 ....	762.00	545.00	545.00	5:05
Feb. 14 ...	771.00	554.00	554.00	5:05
March 2 ...	777.00	560.00	560.00	5:05
Sept. 1 ...	818.00	589.00	589.00	5:05
Oct. 2 ....	852.00	613.00	613.00	5:05
Nov. 3 ....	901.00	648.00	648.00	5:05
1991: July 1 ....	895.00	642.00	642.00	5:05
Dec. 21 ...	913.00	655.00	655.00	5:05
1992: Feb. 20 ...	931.00	668.00	668.00	5:08
Mar. 3 ....	913.00	655.00	655.00	5:08
Apr. 10 ...	913.00	400.00	400.00	5:08
Jul. 3 ....	956.00	416.00	416.00	5:08
Oct. 23 ...	1,006.00	436.00	436.00	5:08
Dec. 11 ...	1,056.00	486.00	486.00	5:08
Dec. 25 ...	1,126.00	566.00	566.00	5:08

<sup>1/</sup> Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight times vary based on type of aircraft.

Source: United Airlines, records.

Table 543.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO,  
AND SEATTLE, FOR MAJOR AIRLINES: DECEMBER 25, 1992

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class .....	696	1,126	1,236
Coach (unrestricted) .....	586	566	606
United Airlines, round-trip:			
First class .....	1,392	2,252	2,472
Coach (unrestricted) .....	1,172	1,132	1,212
Major carriers, lowest round-trip:			
United Airlines <u>1/</u> .....	442	372	492
Lowest carrier .....	402	352	452
Highest carrier .....	442	372	492
Average .....	429	365	479

1/ United roudtrip restricted fares. Requires 14-day advance purchase, departure on Monday-Thursday, 60-day maximum stay. Penalties for changes or cancellations, blackout dates apply.

Source: United Airlines, records.

Table 544.-- ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1991 TO 1992

[Updated to December 18, 1992]

Effective date of change in fare	One-way fares <u>1/</u> (dollars)		
	Regular	Kamaaina	
1991: May 3 .....	69.95	54.95	
May 15 .....	62.95	54.95	
June 14 .....	65.95	54.95	
June 21 .....	65.95	57.95	
1992: February 15 .....	65.95	58.95	
February 29 .....	69.95	57.95	
July 22 .....	69.00	49.00	
August 5 .....	69.00	<u>3/</u> 59.00	
December 18 .....	74.00	<u>4/</u> 64.00	
Aircraft	Flight time between Honolulu and-- <u>2/</u>		
	Lihue	Kahului	Hilo
DC-9 .....	32	33	46
DASH-7 .....	44	42	73

1/ Fares are identical between Honolulu and each of the Neighbor Islands. "Kamaaina" fares are available only to Hawaii residents. For a complete chronology of interisland air fares, 1929 to 1990, see Robert C. Schmitt, What People Paid to Travel (Hawaiian Historical Society, January 1991), table 11, pp. 38-39.

2/ Average scheduled nonstop flight times (eastbound and westbound averaged), in minutes effective June 21, 1991.

3/ \$52.00 one day advance purchase.

4/ Friday through Sunday rate. \$54.00 on Monday-Thursday.

Source: Hawaiian Airlines, tariff records and Schedule and Planning Division.

Table 545.-- STATE COMMERCIAL HARBORS: 1992

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	1,562	23	427	
Maui:								
Kahului .....	35	35	2,400	2,050	3,019	124	850	
Molokai:								
Kaunakakai .....	23	23	1,500	600	691	10	123	
Oahu:								
Honolulu:								
Main .....	45	{	40	3,300	1,520	} 28,007	1,733	8,461
Kapalama .....			40	3,400	1,000			
Barbers Point .			38	2,100	1,800			
Kauai:								
Nawiliwili .....	40	35	1,950	1,540	1,291	66	498	
Port Allen .....	35	35	1,500	1,200	1,200	35	32	

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, December 24, 1992.

Table 546.-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS:  
1991-1992

Island	State-operated <u>1/</u>				Non-State <u>2/</u>	
	Catwalks and piers		Other moorage		Slips	Other moorage <u>3/</u>
	Total	Vacant	Total	Vacant		
State total ...	1,459	94	705	80	2,948	926
Hawaii .....	14	2	315	23	-	200
Maui .....	46	2	145	5	-	-
Lanai .....	28	3	-	-	-	-
Molokai .....	3	1	29	12	-	-
Oahu .....	1,286	79	180	29	2,948	675
Kauai .....	82	7	36	11	-	51

1/ As of December 31, 1991. At that time, 1,992 vessels were moored (1,365 at catwalks and piers, 627 at other moorage), and valid applications on file numbered 2,801.

2/ As of January 10, 1992. Totals for 20 organizations controlling moorage.

3/ Includes moorings (82), ramps (10), and dry storage (834).

Source: Hawaii State Department of Transportation, Harbors Division, Boating Branch, Small Craft Mooring Facilities Utilization Report (quarterly), and records.

Table 547.-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: 1992

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation				Greatest nominal range (naut. miles)	Highest above--	
	By control			Light-houses		Sea level (feet)	Ground (feet)
	Total	Federal	Other <u>1/</u>				
Total .	525	301	224	22	<u>2/</u> 25	<u>3/</u> 931	<u>4/</u> 138
Hawaii .....	63	50	13	7	24	156	115
Maui .....	52	27	25	4	24	170	48
Molokini ...	1	1	-	-	7	182	30
Kahoolawe .	1	1	-	-	7	120	20
Lanai .....	14	8	6	-	8	91	13
Molokai ....	18	10	8	1	25	213	138
Oahu .....	238	151	87	4	25	913	71
Kauai .....	39	22	17	6	25	174	80
Niihau .....	-	-	-	-	-	-	-
Lehua .....	1	1	-	1	7	704	10
Midway .....	25	25	-	-	4	43	(NA)
At sea .....	73	5	68	-	-	-	-

NA Not available.

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Molokai Light, Kaena Point Light, and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, April 16, 1991.

Table 548.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1991

Subject	Number	Subject	Number
Certificates outstanding .	13,592	Type of vessel:	
Length:		Cabin motorboat .....	2,430
Under 16 feet .....	5,404	Open motorboat .....	5,092
16 to less than 26 feet .....	6,666	Runabout .....	2,752
26 to less than 40 feet .....	1,314	Sail/inboard .....	549
40 to 65 feet .....	191	Sail/outboard .....	532
Over 65 feet .....	17	Sail only .....	1,032
Median (feet) .....	18.1	Motor vessel over 65 feet .	6
Hull material:		Other .....	1,199
Wood .....	1,094	Uses:	
Fiberglass .....	10,614	Pleasure .....	11,833
Metal .....	528	Commercial fishing .....	865
Inflatable .....	1,105	Charter fishing .....	24
Other .....	251	Commercial passenger .....	222
Propulsion:		Other commercial .....	61
Inboard .....	888	Livery .....	218
Outboard .....	8,058	Dealer or manufacturer ....	39
Inboard/outboard .....	2,032	Youth group .....	48
Sail/inboard .....	549	Government .....	223
Sail/outboard .....	532	Other .....	59
Sail only .....	874	Island kept:	
Manual .....	244	Hawaii .....	1,899
Other .....	415	Kauai .....	1,097
Type of storage:		Lanai .....	54
On water .....	2,417	Maui .....	1,169
On land .....	11,175	Molokai .....	149
		Oahu .....	9,224

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

Table 549.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:  
1986 TO 1991

Category	1986	1987	1988	1989	1990	1991
Documented <u>1/</u> .....	1,348	1,389	1,380	1,600	1,700	1,775
Numbered <u>2/</u> .....	14,052	14,008	14,250	13,501	14,081	13,592

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 June 30 through 1990 and December 4, 1991.

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. 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 550.-- BOATING ACCIDENTS: 1986 TO 1991

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1986 .....	54	3	3	14	69	293.0
1987 .....	62	1	2	18	76	720.2
1988 .....	31	4	5	11	41	209.6
1989 .....	40	1	1	28	48	216.8
1990 .....	21	2	3	6	25	271.7
1991 .....	19	3	5	14	19	189.5

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 Period 1988 to 1990 and Recreational Boating Accident Statistics (Reportable) 1989 to 1991.

Table 551.-- HARBOR DEPTHS AND VESSEL ARRIVALS, BY DRAFT: 1989

[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	1,445	1,278	167
Kawaihae .....	42	36	800	792	8
Kahului .....	...	34	1,766	1,630	136
Kaunakakai .....	...	...	738	738	-
Kalaupapa .....	...	...	8	8	-
Honolulu .....	45	40	<u>1/</u> 7,104	6,415	689
Barbers Point ..	42	37	558	475	83
Nawiliwili .....	41	34	1,079	966	113
Port Allen .....	...	...	100	(NA)	(NA)

NA Not available.

1/ By type of vessel: self propelled, 4,195 (1,133 passenger and dry cargo, 70 tanker, 2,992 towboat or tugboat); non-self propelled, 2,909 (2,335 dry cargo, 574 tanker).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1989, Part 4 (1991), pp. 30-36 and 111-112.

Table 552.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:  
1982 TO 1992

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
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)
1990 .....	2,159	11,752,880	3,212	(NA)
1991 .....	2,066	13,862,771	3,190	(NA)
1992 .....	2,104	14,802,598	3,207	(NA)

NA Not available.

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

Table 553.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND  
DEPARTURES, FOR HONOLULU HARBOR: 1987 TO 1992

[Fiscal years ended June 30]

Type of passenger	1987	1988	1989	1990	1991	1992
Overseas:						
In .....	8,681	5,815	15,993	9,770	17,503	15,730
Out .....	8,103	5,350	16,716	9,084	17,812	15,766
Interisland:						
In .....	71,049	77,731	78,710	67,199	67,409	72,493
Out .....	69,337	71,804	78,711	67,199	67,409	72,493

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

Table 554.-- OVERSEAS AND INTERISLAND SHIPPING: 1987 TO 1989

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1987 ...	12,379,815	9,767,966	2,611,849	10,358,749	5,071,134	5,287,615
1988 ...	13,140,832	11,019,824	2,121,008	10,844,603	5,267,754	5,576,849
1989 ...	12,139,988	10,411,122	1,728,866	11,483,387	5,653,950	5,829,437

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 555.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:  
1985 TO 1989

Harbor	1985	1986	1987	1988	1989
<b>FREIGHT <u>1/</u> (SHORT TONS)</b>					
Hilo .....	1,318,518	1,198,692	1,365,768	1,455,589	1,569,142
Kawaihae .....	526,639	592,018	871,202	654,600	732,392
Kahului .....	1,516,509	1,626,650	2,035,247	2,156,631	2,278,516
Honolulu .....	7,986,133	8,603,760	9,736,688	10,654,845	10,360,134
Barbers Point .....	6,751,709	5,629,312	7,135,064	7,511,140	7,374,418
Nawiliwili .....	933,477	745,396	916,422	875,753	1,038,452
<b>PASSENGERS <u>2/</u></b>					
Hilo .....	-	-	-	-	9,082
Kahului .....	-	-	-	-	9,083
Honolulu .....	1,102,398	708,268	154,082	825,377	626,671
Nawiliwili .....	-	-	-	-	9,082

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 1989, Part 4 (1991), pp. 30-37.

Table 556.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989

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

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Hilo .....	1,569,142	31,291	-	49,451	64,864	1,109,320	314,216
Residual fuel oil .....	214,993	-	-	214,993	-	214,993	-
Fabricated metal products	305,600	-	-	305,600	40	174,172	131,388
Kawaihae .....	732,392	10,788	1,419	12,861	82,699	432,726	191,899
Fabricated metal products	156,712	-	-	(NA)	(NA)	(NA)	(NA)
Kahului .....	2,278,516	12,888	10,514	51,190	137,387	1,598,297	468,240
Sugar .....	155,021	-	-	-	137,387	21	17,613
Fabricated metal products	433,848	382	3	790	-	283,612	149,061
Motor vehicles, parts, and equipment .....	198,881	1,990	-	102	-	124,793	71,996
Barbers Point .....	7,374,418	3,709,321	148,505	2,723,379	167,694	42,140	493,600
Crude petroleum .....	5,862,212	3,491,896	-	2,370,316	-	-	-
Residual fuel oil .....	934,406	216,959	100,606	262,435	12,498	24,338	228,191
Petro. & coal prod. NEC .	204,839	-	-	-	-	1,816	203,023
Honolulu .....	10,360,134	815,645	192,764	2,968,090	795,743	1,593,070	3,827,048
Fresh fruits .....	257,374	2,868	190	24,713	77,049	149,132	3,422
Meat, fresh, chill, froz.	167,562	7,199	2,370	129,063	2,928	2,064	23,938
Vegetables & prep. NEC ..	202,757	5,234	575	112,194	6,047	45,988	32,719
Prepared fruit & vege- table juice NEC .....	389,612	3,299	3,476	8,109	251,810	122,682	236
Molasses .....	200,351	-	26,070	-	134,605	37,903	1,773
Alcoholic beverages .....	234,427	7,127	936	181,576	561	4	44,223
Misc. food products .....	329,712	4,860	7,344	40,052	3,146	108,759	165,551
Lumber .....	243,943	563	2,251	165,799	1,594	3,506	70,230
Pulp & paper prod. NEC ..	155,626	928	400	104,185	73	1,618	48,422

Continued on next page.

Table 556.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989 -- Con.

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Honolulu - Con.							
Gasoline .....	228,628	16,610	142	40,788	30,697	4,451	135,940
Jet fuel .....	261,808	-	-	186,438	-	4,793	70,577
Distillate fuel oil .....	335,526	-	168	82,207	2,855	25,326	220,248
Residual fuel oil .....	698,293	-	38,552	-	-	169,400	335,999
Petro. & coal prod. NEC .	210,402	2	-	18,344	-	16,471	175,035
Building cement .....	434,705	257,690	278	9,442	-	11	167,284
Fabricated metal product	1,291,524	2,693	351	72,587	642	471,440	743,811
Motor vehicles, parts, equipment .....	832,710	38,729	848	135,286	45,043	184,951	427,853
Nawiliwili .....	1,038,452	7,275	-	17,744	127,277	655,619	230,537
Fabricated metal products	287,967	499	-	-	-	163,312	124,156
Kalaupapa .....	1,687	-	-	-	-	1,238	449
Kaunakakai .....	144,494	-	-	1,199	-	97,511	45,784
Port Allen .....	131,592	-	-	-	-	124,029	111

482

NA Not available.

NEC Not elsewhere classified.

1/ Includes internal and local movements, not separately shown in this table: 89,779 tons at Barbers Point and 167,774 tons at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1989, Part 4 (June 1991), pp. 30-37, and unpublished printouts.

Table 557.-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES  
ESTABLISHMENTS: 1987 AND 1990

[Includes only establishments with payroll]

1987 SIC code	Kind of business	No. of establish- ments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid em- ployees, Mar. 12
1987					
42	Motor freight transp., warehousing .....	215	192,336	66,389	3,734
44	Water transportation .....	58	147,349	44,168	1,547
47	Transportation services ...	550	241,602	83,405	5,755
1990					
42	Trucking and warehousing ..	225	(NA)	100,556	4,220
44	Water transportation .....	53	(NA)	78,696	2,937
47	Transportation services ...	596	(NA)	143,817	7,546

NA Not available.

Source: U. S. Bureau of the Census, 1987 Census of Transportation, TC87-S-1 (July 1991), table 1, and County Business Patterns 1990, Hawaii, CBP-90-13 (November 1992), table 1a.