

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 703,000 in 1983 to 880,000 in 1993. Vehicle miles rose during the decade ending in 1992 from 6.0 billion to 8.1 billion. In 1992 over 72,000 new passenger cars and 11,000 trucks were registered. By the end of that year, 717,000 licensed drivers had access to over 4,100 miles of streets and highways throughout the State. Bus passengers carried by the City and County of Honolulu bus system increased from 74 million in 1982 to 78.4 million in 1992.

Almost all scheduled interisland travel is by air. In 1993, airlines and air taxis reported 9.3 million interisland passengers, some 33 percent more than in 1983, and carried 74,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,300 active pilots, and about 500 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1993, 6,925,000 overseas passengers arrived by air, a 10-year growth of 45 percent. Overseas air cargo received that year weighed 128,000 tons.

Undocumented State-registered vessels as of December 31, 1993 numbered 13,832, 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: 1993*, Sections 21 and 22.

Table 18.1-- HIGHWAY DISTANCES: 1993

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 18.2-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1991

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

Excludes	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 18.3-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1992

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

Island	Total mileage	Paved		Unpaved
		Freeways ^{1/}	Other	
State total	4,105.94	96.82	3,811.12	198.00
Hawaii ^{2/}	1,433.10	6.56	1,367.17	59.37
Maui ^{2/}	621.90	3.21	561.99	56.70
Lanai	46.68	-	32.68	14.00
Molokai	129.33	-	117.33	12.00
Oahu	1,471.47	87.05	1,350.98	33.44
Kauai	403.46	-	380.97	22.49
Niihau	-	-	-	-

^{1/} Classified as interstate and freeways and expressways.

^{2/} Significant changes since 1991 are due to reinventories of roads.

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

Table 18.4-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1992

Island	Number of bridges ^{1/}	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 18.5-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1992

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
H-3: Inbound ^{1/}	4,890
Outbound ^{1/}	5,165
Middle Street.....	393
Structure No. 8, Waiawa Interchange.....	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

^{1/} Not yet open to public.

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

**Table 18.6-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1983 TO 1993**

[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
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
1993	903,550	880,152	693,283	48	4,032
		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
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
1993	165,209	757	283	16,540	23,398

Footnotes and source on next page.

**Table 18.6-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1983 TO 1993 -- 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 18.7-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1983 TO 1993**

[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
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
1993	880,152	604,602	111,138	54,068	110,344

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

**Table 18.8-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1990 TO 1993**

[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 18.8-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1990 TO 1993 -- Con.**

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
1993					
All vehicles.....	903,550	617,847	116,024	56,606	113,073
Motor vehicles.....	880,152	604,602	111,138	54,068	110,344
Passenger vehicles <u>1/</u>	693,283	483,237	84,507	39,409	86,130
Ambulances.....	48	34	9	0	5
Buses.....	4,032	3,316	212	58	446
Trucks <u>1/</u>	165,209	105,477	24,072	13,747	21,913
Truck tractors.....	757	330	184	86	157
Truck cranes.....	283	120	31	22	110
Motorcycles <u>2/</u>	16,540	12,088	2,123	746	1,583
Trailers and semi-trailers.....	23,398	13,245	4,886	2,538	2,729

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 18.9-- 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 18.10-- NEW PASSENGER CARS AND MOTOR TRUCKS
REGISTERED: 1987 TO 1992**

Year	Total	Passenger cars	Motor trucks
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
1992	78,617	55,394	23,223

Source: R.L. Polk and Co., cited in American Automobile Manufacturers Association, *AAMA Motor Vehicle Facts and Figures* (annual).

**Table 18.11-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1988 TO 1993**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1988	74,962	49,401	11,413	8,410	5,738
1989	85,425	52,855	13,733	11,362	7,475
1990	102,821	57,524	19,737	14,527	11,033
1991	98,698	52,002	21,054	14,389	11,253
1992	83,357	47,082	17,503	10,928	7,844
1993	79,168	45,833	16,918	10,111	6,306

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

**Table 18.12-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY
NAMEPLATE: 1992 AND 1993**

Nameplate ^{1/}	1992: Total		1993			
	Rank	Number	Total		Retail	Fleet ^{2/}
			Rank	Number		
All nameplates .....	...	83,357	...	79,168	44,925	34,243
Ford	1	17,818	1	19,438	7,222	12,216
Chevrolet	2	16,363	2	7,409	3,447	3,962
Toyota	3	6,877	3	7,136	6,218	918
Nissan	4	5,585	4	6,989	3,742	3,247
Honda	5	5,575	5	5,289	5,289	0
Pontiac	6	4,163	6	3,909	481	3,428
All others .....	...	26,976	...	28,998	18,526	10,472

^{1/} Shown separately for first six in 1993.

^{2/} "Program" cars sold to car rental companies through local and mainland dealers.

Source: Hawaii Automobile Dealers Association, *HADA Yearbooks for 1993 and 1994*.

Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY PLACE OF MANUFACTURE: 1992 AND 1993

Year and place of manufacture	Cars and trucks	Cars			Trucks (all retail)
		Total	Retail	Fleet	
1992, total.....	83,357	72,392	33,901	38,491	10,965
Domestic	54,535	47,369	14,142	33,227	7,166
Imports	28,822	25,023	19,759	5,264	3,799
Percent imports	34.6	34.6	58.3	13.7	34.6
1993, total.....	79,168	70,735	36,816	33,919	8,433
Domestic	50,329	44,935	15,858	29,077	5,394
Imports	28,839	25,800	20,958	4,842	3,039
Percent imports	36.4	36.5	57.0	14.3	36.0

Source: Hawaii Automobile Dealers Association, *1993 HADA Yearbooks*, for 1993 and 1994.

Table 18.14-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1987 TO 1992

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
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
1992	716,545	510,901	89,436	39,947	76,261

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

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1992**

Age	Both sexes	Male	Female
Total.....	716,545	385,639	330,906
15 to 19 years.....	37,969	20,725	17,244
20 to 24 years.....	66,674	36,073	30,601
25 to 34 years.....	170,064	89,246	80,818
35 to 44 years.....	173,986	90,817	83,169
45 to 54 years.....	115,421	61,938	53,483
55 to 64 years.....	74,144	39,675	34,469
65 to 74 years.....	57,280	33,116	24,164
75 to 84 years.....	19,210	12,721	6,489
85 years and over.....	1,797	1,328	469
Median age (years)	39.8	40.2	39.4

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

**Table 18.16-- MOTOR VEHICLE-MILES OF TRAVEL PER MILE OF
HIGHWAY, 1970 TO 1991, AND BY COUNTIES, 1991**

[1,000]

Year	Vehicle-miles per highway mile	County	Vehicle-miles per highway mile
1970	966	State, 1991	1,985
1975	1,108	Hawaii	772
1980	1,424	Maui	1,312
1985	1,661	Honolulu	3,680
1990	1,967	Kauai	1,477
1991	1,985		

Source: Calculated from data supplied by Hawaii State Department of Transportation, Highways Division.

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1982 TO 1992**

Year and county	Highway fuel consumption ^{1/}		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle ^{2/}	Total (millions)	Per vehicle ^{2/}
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
1992	405,963	457	8,065.5	9,070
COUNTIES: 1992				
Honolulu	272,706	448	5,384.4	8,846
Hawaii.....	60,630	531	1,113.8	9,746
Kauai	23,642	421	579.0	10,316
Maui.....	48,985	445	988.3	8,971

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 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1990 TO 1992

Site	1990	1991	1992
Pali Highway at tunnels	50,590	61,046	58,384
Likelike Highway at tunnels	54,296	60,217	59,678
H-1 Freeway at Manoa-Palolo Drainage Canal ^{1/}	123,621	123,915	129,811
H-1 Freeway at Kapalama Drainage Canal Bridge	193,983	208,530	209,922
Nimitz Highway at Kapalama Drainage Canal Bridge.....	73,188	81,593	76,555
Kalaniana'ole Highway east of Ainako'a Ave.	80,135	77,703	73,944

^{1/} Includes Kapiolani on- and off-ramps.

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

Table 18.19-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1987 TO 1992

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

Year	Statewide	Urban interstate	Rural	
			Arterials ^{1/}	Major collectors
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	55.0	57.0	52.0	52.1
1992	^{2/} 56.2	57.8	53.4	55.5

^{1/} Other than freeways and expressways.

^{2/} The corresponding U.S. average was 56.7. Hawaii ranked 36th among the 50 states.

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

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1981 TO 1991, AND BY COUNTIES, 1991

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
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
1991	21,826	119	12,792	135
COUNTIES: 1991				
Honolulu	16,037	51	8,548	54
Hawaii.....	3,390	38	2,298	46
Kauai	726	10	556	11
Maui.....	1,673	20	1,390	24

1/ Through 1990, includes traffic accidents with damage of \$300 or more or causing injury or death. Effective 1991, includes only accidents with damage of \$1,000 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 18.21-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1993**

[As of December 31]

Island	Taxicabs <u>1/</u>	Bicycles and mopeds <u>2/</u>
Hawaii.....	97	6,039
Maui.....	178	3,424
Lanai.....	-	67
Molokai.....	4	106
Oahu.....	1,683	100,572
Kauai.....	-	<u>3/ 1,834</u>

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.

3/ 1992 total.

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

Table 18.22-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1993

[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
September 8, 1993.....	44.73	45.99	49.49	56.99

Source: Information provided by listed companies.

**Table 18.23-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987**

Subject	State total ^{1/}		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 18.24-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
JULY 1992**

County	Passenger carriers ^{1/}			Property carriers ^{2/}	
	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 18.25-- PUBLIC TRANSIT, FOR OAHU: 1983 TO 1993

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

Year	Number of buses, Dec. 31	Bus mileage ^{1/}	Total passengers ^{2/}	Revenues (dollars)
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
1992	475	18,437,228	78,416,523	19,534,923
1993	495	18,507,642	79,343,403	20,751,058

^{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 18.26-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1991 TO 1993

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

Fare category	1991	1992	1993
All passengers	76,540,997	78,416,523	79,343,403
Adults, full fare.....	45,539,491	46,773,053	47,953,391
Students	11,021,547	11,174,889	11,074,425
School subsidy	191,298	201,451	235,487
Stadium express.....	7,551	8,365	8,608
Senior citizens and handicapped	14,642,226	15,002,787	15,356,463
Free transfers.....	5,138,884	5,255,978	4,715,029
Average bus speed (m.p.h.).....	15.0	14.8	14.8

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

Table 18.27-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1994

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	School	Adult	School
March 1, 1971 .....	.25	.15	...	...
March 2, 1971 .....	.25	.10	...	...
June 9, 1972 2/.....	.25, .50	.10, .25	...	...
March 15, 1974 .....	.25	.10	...	...
November 1, 1979.....	.50	.25	15.00	7.50
June 18, 1984.....	.60	.25	15.00	7.50
October 1, 1993 3/.....	.85	.25	20.00	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 March 23, 1994.

Source: Oahu Transit Service, Inc. (The Bus), records.

**Table 18.28-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1983 TO 1993**

[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
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	1992	6	385,261
1987	6	244,555	1993	6	388,484
1988	6	285,139			

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

**Table 18.29-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1992**

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State <u>3/</u>		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 helicopters (not available).

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provided regular air service.

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

**Table 18.30-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1990 AND 1991**

Subject	Rank <u>1/</u>		Number	
	1990	1991	1990	1991
Total aircraft operations.....	17	16	407,093	403,570
Air carrier operations	22	21	194,455	196,047
Total enplaned passengers <u>2/</u>	15	15	9,002,217	8,772,316

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 18.31-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1983 TO 1993**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport ^{1/}	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
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
1992	403,628	91,055	63,939	178,752	103,686	35,662
1993	358,505	92,297	59,904	172,265	70,910	39,057

^{1/} Formerly General Lyman Field; new name became effective July 1, 1989.
Source follows next table.

**Table 18.32-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT
MAJOR STATE-OWNED AIRPORTS: 1993**

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxi, 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 ...	358,505	185,959	53,742	96,504	22,300
Hilo International	92,297	20,779	34,886	23,999	12,633
Kahului	172,265	51,648	77,212	37,097	6,308
Lihue.....	70,910	20,139	33,751	7,053	9,967
Keahole	59,904	25,353	10,697	18,326	5,528
Molokai	39,057	100	26,512	9,465	2,980

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

Table 18.33-- 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 18.34-- CIVIL FLYING: 1988 TO 1991

Item	1988	1989	1990	1991
Aircraft facilities, Dec. 31.....	54	53	50	48
Airports	35	34	34	33
Heliports.....	19	19	16	15
Public aircraft facilities, Dec. 31	18	17	16	17
Paved and lighted facilities, Dec. 31	12	12	12	12
Large aircraft in operation, Dec.	51	51	52	56
Aloha Airlines	12	13	17	19
Hawaiian Airlines	31	31	35	29
Mid Pacific Airlines.....	8	7	-	8
General aviation: <u>1/</u>				
Active civil aircraft, Dec.....	600	519	561	484
Hours flown (1,000)	426	290	278	259
Active personnel, Dec. 31:				
Pilots, except instructors.....	3,598	3,814	3,505	3,339
Flight instructors	293	284	309	350
Nonpilot airmen <u>2/</u>	3,008	3,185	3,306	3,492

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1991, 27.9 percent for aircraft and 34.1 percent for hours).

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 18.35-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR ARRIVING FLIGHTS: 1989 TO 1993

Year	Total	Westbound and southbound	Eastbound and northbound
1989	11,005,765	7,241,987	3,763,778
1990	11,779,602	7,367,305	4,412,297
1991	11,851,900	7,157,210	4,694,690
1992	11,424,600	6,362,440	5,062,160
1993	10,752,580	5,882,450	4,870,130

Source: Hawaii Visitors Bureau, records.

Table 18.36-- OVERSEAS AND INTER-ISLAND AIR PASSENGER MOVEMENTS: 1983 TO 1993

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

Year	Overseas passengers ^{1/}			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1983	4,760,459	4,714,389	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	1,020,464	9,368,576
1992	7,248,645	7,087,463	1,318,044	9,568,434
1993	6,924,571	6,907,236	1,298,684	9,345,320

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

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

Table 18.37-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1993

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total.....	6,907,236	6,924,571	153,651	127,758	26,162	56,485
Honolulu	6,147,034	6,102,968	141,643	117,274	26,162	56,485
Hilo	86	86	-	-	-	-
Kahului	610,124	666,067	5,581	7,004	-	-
Keahole	145,980	150,796	6,269	3,300	-	-
Lihue.....	4,012	4,654	158	180	-	-
INTERISLAND						
Total.....	9,345,320	9,345,320	73,527	73,527	13,203	13,203
Honolulu	4,251,863	4,261,404	46,928	24,749	8,163	5,014
Hilo	785,043	802,227	15,044	10,322	1,164	1,983
Upolu	-	-	-	-	-	-
Waimea- Kohala	1,128	1,205	1	2	-	-
Keahole	952,901	929,385	4,062	7,934	1,009	1,659
Kahului	2,044,021	2,037,827	4,999	17,738	1,937	2,878
Hana.....	8,987	8,854	-	2	-	-
Kapalua	156,712	150,651	190	504	1	1
Molokai.....	139,012	141,032	149	382	85	14
Kalaupapa	6,878	6,431	-	10	-	-
Lanai.....	71,220	71,375	33	468	23	3
Lihue.....	911,993	918,968	2,121	11,416	821	1,651
Princeville <u>2/</u>	15,562	15,961	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,298,684, passing through Honolulu International Airport).

2/ Privately owned.

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

Table 18.38-- AIR CARGO AND AIRMAIL: 1983 TO 1993

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
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
1992	305,224	305,658	39,268	66,052	153,912	25,594
1993	307,302	255,516	52,324	112,970	147,054	26,406

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

Table 18.39-- HELICOPTER TOURS: 1977 TO 1993

Subject	1977	1982	1987	1990	1991	1992	1993
Companies	9	14	36	37	33	31	27
Aircraft	15	26	71	78	90	91	87

Source: Hawaii Helicopter Operators Association, records.

Table 18.40-- 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* [tm] January 1993. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.41-- 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			3,400	1,000			
Barbers Point			2,100	1,800			
Barbers Point	42	38	2,100	1,800	1,600	-	1,280
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 18.42--SMALL CRAFT MOORING FACILITIES CAPACITY,
BY ISLANDS: 1993**

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	1,695	61	510	49	2,948	1,512
Hawaii.....	251	4	120	3	-	200
Maui	46	1	144	5	-	50
Lanai	27	4	2	0	-	-
Molokai.....	2	0	27	7	-	-
Oahu	1,287	38	181	17	2,948	1,211
Kauai.....	82	14	36	17	-	51

1/ As of December 31, 1993. At that time, 2,088 vessels were moored (1,634 at catwalks and piers, 454 at other moorage), and valid applications on file numbered 2,224.

2/ As of December 31, 1993. Totals for 20 organizations controlling moorage.

3/ Includes moorings (82), ramps (16), and dry storage (1,414).

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly), and records.

**Table 18.43-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1993**

[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 ^{1/}				
Total.....	627	311	316	20 ₂	2 ₂ / 25	3 ₃ / 913	4 ₄ / 138
Hawaii.....	70	57	13	8	24	156	115
Maui.....	52	22	30	2	24	170	48
Molokini.....	1	1	-	-	7	182	30
Kahoolawe....	1	1	-	-	7	120	20
Lanai.....	14	8	6	-	8	91	13
Molokai.....	18	11	7	1	25	213	138
Oahu.....	324	152	172	5	25	913	71
Kauai.....	48	28	20	4	25	174	80
Niihau.....	-	-	-	-	-	-	-
Lehua.....	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 15, 1993.

**Table 18.44-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1993**

Subject	Number	Subject	Number
Certificates outstanding	13,832	Type of vessel:	
Length:		Cabin motorboat	2,223
Under 16 feet.....	5,509	Open motorboat.....	5,139
16 to less than 26 feet.....	6,835	Runabout	2,775
26 to less than 40 feet.....	1,309	Sail/inboard.....	533
40 to 65 feet.....	166	Sail/outboard.....	527
Over 65 feet.....	13	Sail only	900
Median (feet).....	18.1	Motor vessel over 65 feet.....	8
Hull material:		Other	1,727
Wood	959	Uses:	
Fiberglass	10,964	Pleasure.....	12,175
Metal.....	569	Commercial fishing	726
Inflatable.....	1,095	Charter fishing.....	24
Other	245	Commercial passenger	238
Propulsion:		Other commercial.....	74
Inboard	5,114	Livery	230
Outboard	3,957	Dealer or manufacturer.....	21
Inboard/outboard	2,056	Youth group	49
Sail/inboard.....	533	Government.....	241
Sail/outboard	527	Other	54
Sail only	800	Island kept:	
Manual.....	288	Hawaii	1,994
Other	557	Kauai.....	1,473
Type of storage:		Lanai	53
On water.....	2,336	Maui	1,345
On land.....	11,496	Molokai.....	166
		Oahu	8,801

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

Table 18.45-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1988 TO 1993

Category	1988	1989	1990	1991	1992	1993
Documented <u>1/</u>	1,380	1,600	1,700	1,775	(NA)	(NA)
Numbered <u>2/</u>	14,250	13,501	14,081	13,592	13,973	13,832

NA Not available.

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. Series discontinued after 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 18.46-- BOATING ACCIDENTS: 1988 TO 1993

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non fatally		
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
1992	19	(NA)	3	5	(NA)	472.4
1993	19	3	3	4	25	219.4

NA Not available.

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 Accidents Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, *Recreational Boating Accident Statistics 1991 through 1993*.

Table 18.47-- 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 18.48-- 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 18.49-- 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 18.50-- 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 18.51-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1985 TO 1989

Harbor	1985	1986	1987	1988	1989
FREIGHT 1/ (SHORT TONS)					
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
PASSENGERS 2/					
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 18.52-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES ESTABLISHMENTS: 1987 AND 1991

[Includes only establishments with payroll]

1987 SIC code	Kind of business	No. of establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees, Mar. 12
1987					
42	Motor freight transportation, 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
1991					
42	Trucking and warehousing	268	(NA)	104,937	4,320
44	Water transportation	56	(NA)	(D)	(D)
47	Transportation services	597	(NA)	163,792	7,581

D Withheld to avoid disclosure.

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 1991, Hawaii*, CBP-91-13 (December 1993), table 1a.