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.

The chief source for transportation statistics is the Hawaii State Department of Transportation, its Highways, Harbors and Airports Divisions and the Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, U.S. Census of Transportation, Communications, and Utilities, Honolulu Public Transit Authority, 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 the *Statistical Abstract of the United States: 1996*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1995

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

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1993 AND 1994

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

		Pa		
Island	Total mileage	Freeways	Other	Unpaved
1993				
State total	4,105.94	96.82	3,811.12	198.00
Hawaii 1/ Maui 1/ Lanai Molokai Oahu Kauai Niihau	1,433.10 621.90 46.68 129.33 1,471.47 403.46	6.56 3.21 - - 87.05 -	1,367.17 561.99 32.68 117.33 1,350.98 380.97	59.37 56.70 14.00 12.00 33.44 22.49
State total	4,100.07	77.33	3,824.74	198.00
Hawaii 1/ Maui 1/ Lanai Molokai Oahu Kauai Niihau	1,420.89 609.24 46.59 129.26 1,485.75 408.34	- - - 77.33 -	1,361.52 552.54 32.59 117.26 1,374.98 385.85	59.37 56.70 14.00 12.00 33.44 22.49

^{1/} Significant changes from previously published data are due to reinventories of roads to reflect extensive revisions in the functional classification of highway systems.

Table 18.03-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1994

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

Category	1970	1975	1980	1985	1990	1994
Total mileage	3,529	3,743	3,912	4,070	4,101	4,100
Paved	3,047	3,355	3,591	3,808	3,887	3,902
Unpaved	482	389	321	262	214	198

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1994

		Longest br	idge	Highest bridge		
Number of Island bridges 1/		Location	Length (feet)	Location	Height (feet)	
State	714	Airport Viaduct	14,890	Nanue	208	
Hawaii Maui Lanai Molokai Oahu Kauai	129 88 - 19 427 51	Hakalau Honokahua None Manawainui Airport Viaduct Hanamaulu	775 600 360 14,890 1,150	Nanue Uaoa None Manawainui Kipapa Wahiawa, Koloa	208 79 50 156 90	

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

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1994

	Island and name of tunnel	Length (feet)
Oahu:		
Pali No. 1	I: Inbound (to Honolulu)	1,000
	Outbound (from Honolulu)	1,080
Pali No. 2	2: Inbound	500
	Outbound	497
Wilson:	Inbound	2,775
	Outbound	2,813
H-3:	Inbound 1/	4,890
	Outbound 1/	5,165
Middle St	reet	393
Structure	No. 8, Waiawa Interchange	300
Maui:		
Olowalu		318
Kauai:		
	naulepu (private road)	2,200

^{1/} Not yet open to public.

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

Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1986 TO 1996

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

			Motor vehicles				
Year	All vehicles regis- tered	All motor vehicles	Passenger vehicles 1/	Ambu- lances, hearses, patrol wagons	Buses		
1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	790,855 818,430 838,327 876,848 911,283 920,124 908,738 903,550 898,008 901,291 907,770	771,575 798,317 817,609 855,057 889,096 897,193 885,761 880,152 875,144 877,756 884,617	642,636 661,674 670,877 695,397 718,204 717,907 703,983 693,283 691,158 694,239 703,094	60 54 52 54 55 54 53 48 53 54 59	4,158 4,198 4,215 4,203 4,308 4,309 4,282 4,032 3,772 3,660 3,468		
		Motor vehicle	s continued				
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor- cycles, motor- scooters 2/	Trailers and semi- trailers		
1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	112,053 119,338 129,452 141,845 152,453 159,831 160,952 165,209 162,348 161,609 160,013	1,290 1,220 1,176 1,107 1,043 972 871 757 630 567 504	323 318 293 292 313 323 298 283 249 239 225	11,055 11,515 11,544 12,159 12,720 13,797 15,322 16,540 16,934 17,388 17,254	19,280 20,113 20,718 21,791 22,187 22,931 22,977 23,398 22,864 23,535 23,153		

^{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.

Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1986 TO 1996

[Taxable and exempt vehicles. Includes passenger cars, ambulances, buses, trucks, motorcycles and vehicles registered but subsequently scrapped or shipped out of the State. Excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	771,575 798,317 817,609 855,057 889,096 897,193 885,761 880,152 875,144 877,756 884,617	556,935 571,738 579,998 599,379 612,742 613,119 611,513 604,602 600,087 601,239 598,772	89,918 93,095 96,360 103,724 110,834 113,265 113,080 111,138 111,532 111,624 115,647	40,585 43,925 47,235 51,455 55,927 57,751 51,165 54,068 52,817 52,364 52,984	84,137 89,559 94,016 100,499 109,593 113,058 110,003 110,344 110,708 112,529 117,214

Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1995 AND 1996

[Taxable and exempt vehicles. 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
1995					
All vehicles	901,291	614,368	116,751	54,860	115,312
Motor vehicles Passenger vehicles 1/ Ambulances Buses Trucks 1/ Truck tractors Truck cranes Motorcycles 2/ Trailers and semi-trailers	877,756 694,239 54 3,660 161,609 567 239 17,388 23,535	601,239 485,281 30 2,965 100,097 244 110 12,512 13,129	111,624 84,475 12 216 24,565 121 23 2,212 5,127	52,364 37,594 - 39 13,921 65 17 728 2,496	112,529 86,889 12 440 23,026 137 89 1,936 2,783
All vehicles	907,770	611,647	120,783	55,379	119,961
Motor vehicles Passenger vehicles 1/ Ambulances Buses Trucks 1/ Truck tractors Truck cranes Motorcycles 2/ Trailers and semi-trailers	884,617 703,094 59 3,468 160,013 504 225 17,254 23,153	598,772 485,724 32 2,798 97,537 227 105 12,349 12,875	115,647 88,037 15 235 24,961 107 20 2,272 5,136	52,984 38,266 0 30 13,905 52 14 717 2,395	117,214 91,067 12 405 23,610 118 86 1,916 2,747

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

Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR COUNTIES: DECEMBER 31, 1996

[Includes vehicles registered but subsequently scrapped or shipped out of state. Excludes trailers, semi-trailers and motorcycles]

Taxation status	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total registered	867,363	586,423	113,375	52,267	115,298
Taxable vehicles Exempt vehicles Federal government State government County government Fire department Police department Consulates Disabled veterans Military non-resident Farm Horseless carriage	798,996 68,367 339 4,642 5,834 189 1,512 66 115 55,227 396 47	521,145 65,278 326 4,642 3,878 56 1,180 65 79 54,858 159 35	112,214 1,161 11 - 538 107 330 - 12 98 55 10	51,516 751 - - 505 - - 18 210 16	114,121 1,177 2 - 913 26 2 1 6 61 166

Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1990

Vehicles available	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	356,267	41,461	265,304	62	16,295	33,145
None	35,159	3,100	29,406	26	777	1,850
1	128,513	14,676	98,542	6	4,573	10,716
2	127,011	16,154	91,032	24	6,699	13,102
3	43,580	5,316	30,415	6	2,874	4,969
4	15,187	1,606	10,996	-	907	1,678
5 or more	6,817	609	4,913	-	465	830

Source: U.S. Bureau of the Census, 1990 Census of Housing, Detailed Housing Characteristics, Hawaii, 1990 CH-2-13 (August 1993), tables 14 and 67.

Table 18.11-- TRUCK CHARACTERISTICS: 1977 TO 1992

Vehicular and operational characteristics	1977	1982	1987	1992
Total trucks (1,000)			160.8	280.3
Percent	100.0	100.0	100.0	100.0
Major use: Personal transportation	50.0	54.3	60.5	61.7
Body type: Pickup, panel, or mini-van	85.1	89.1	91.2	93.8
Vehicle size: Light	89.0	92.9	94.6	95.6
Annual miles: Less than 10,000	54.1	59.7	57.0	50.0
Year model: Over 4 years old	68.1	75.8	62.1	66.8
Vehicle acquisition: Purchased new	54.6	47.3	49.6	54.3
Truck type: Single-unit, 2 axles	95.7	96.6	96.4	91.9
Range of operation: Local	87.3	78.2	80.2	79.3
Fuel type: Diesel and LPG	4.6	3.7	5.4	4.7

Source: U.S. Bureau of the Census, 1992 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC92-T-12 (December 1994), tables 1 and 2.

Table 18.12-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1988 TO 1993

Year	Total	Passenger cars	Motor trucks
1988	78,454	56,278	22,176
1989 1990	84,485 97,754	59,893 71,950	24,592 25,804
1991 1992	97,267 78,617	71,924 55,394	25,343 23,223
1993	76,216	53,943	22,273

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

Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY COUNTIES: 1991 TO 1996

Year	State total	Honolulu	Maui	Hawaii	Kauai
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
1994	83,093	46,664	18,940	10,660	6,829
1995	72,526	41,880	15,786	9,359	5,501
1996	68,765	40,425	14,497	8,527	5,316

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

Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY NAMEPLATE: 1994 TO 1996

	19	994	1995		1995 1996	
Nameplate 1/	Rank	Units	Rank	Units	Rank	Units
All nameplates		82,645		72,526		68,375
Ford	1	20,992	1	14,178	1	11,003
Chevrolet/Geo	2	9,057	2	9,348	2	7,902
Toyota	3	7,595	4	6,572	3	7,355
Nissan	5	4,854	3	7,360	4	7,160
Dodge	10	2,846	6	5,030	5	5,485
Honda	4	5,169	5	5,103	6	4,708
All others		32,132		24,935		24,762

^{1/} Shown separately for first six in 1996.

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

Table 18.15-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1995 AND 1996

			Cars		
Year and place of manufacture	Cars and trucks	Total	Retail	Rental	Trucks (all retail)
1995, total Domestic Imports Percent imports	72,526	65,994	34,551	31,443	6,532
	45,964	41,416	15,343	26,073	4,548
	26,562	24,578	19,208	5,370	1,984
	36.6	37.2	55.6	17.1	30.4
1996, total Domestic Imports Percent imports	68,765	61,240	33,955	27,285	7,525
	42,783	37,948	15,811	22,137	4,835
	25,982	23,292	18,144	5,148	2,690
	37.8	38.0	53.4	18.9	35.8

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

Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1991 TO 1996

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1991	699,664	501,260	86,181	38,894	73,329
1992	716,545	510,901	89,436	39,947	76,261
1993	734,381	522,016	92,264	41,910	78,191
1994	745,392	527,756	94,257	42,736	80,643
1995	732,508	516,780	94,048	42,041	79,639
1996	733,486	515,780	94,943	41,775	80,988

Table 18.17-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX: DECEMBER 31, 1995 AND 1996

	Both	sexes	Male		Fen	nale
Age	1995	1996	1995	1996	1995	1996
Total	732,508	733,486	390,225	389,483	342,283	344,003
15 to 19 years	38,283	37,456	20,695	20,385	17,588	17,071
20 to 24 years	61,947	59,862	32,941	31,688	29,006	28,174
25 to 34 years	161,342	157,320	84,008	81,578	77,334	75,742
35 to 44 years	174,383	173,455	90,188	89,422	84,195	84,033
45 to 54 years	134,188	139,829	71,529	74,126	62,659	65,703
55 to 64 years	75,702	76,881	40,663	41,416	35,039	35,465
65 to 74 years	60,671	60,687	33,618	33,211	27,053	27,476
75 to 84 years	23,460	25,215	14,769	15,672	8,691	9,543
85 years and over	2,532	2,781	1,814	1,985	718	796
Median age (years)	41.0	41.5	41.4	41.8	40.6	41.1

Table 18.18-- VEHICLE DENSITIES: 1970 TO 1994

Measure	1970	1975	1980	1985	1990	1994
Motor vehicles per 1,000 persons 1/ Mile of street or highway	506	532	585	657	707	680
	115	134	158	184	217	213
Persons per 1/ Motor vehicle Mile of street or highway	2.0	1.9	1.7	1.5	1.4	1.5
	226	252	270	280	307	314

^{1/} Based on DBEDT estimates of de facto population.

Table 18.19-- MOTOR VEHICLE-MILES OF TRAVEL PER MILE OF HIGHWAY, 1970 TO 1994, AND BY COUNTIES, 1994

[1,000]

Year	Vehicle-miles per highway mile	County	Vehicle-miles per highway mile
1970	966	State, 1994	1,933
1975	1,108		
1980	1,424	Hawaii	772
1985	1,661	Maui	1,266
1990	1,967	Honolulu	3,550
1994	1,933	Kauai	1,371

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

Table 18.20-- DRIVING COST, FOR HONOLULU AND SELECTED MAINLAND CITIES: 1995

[Total annual vehicle costs shown are based on a 1995 Ford Taurus GL, 6-cylinder, 4-door sedan driven 15,000 miles per year with a 4-year, 60,000-mile retention cycle. Costs include both ownership expenses of insurance, depreciation, license and registration fees and miscellaneous taxes; and operating expenses of fuel, oil, tires and maintenance]

City	Rank 1/	Annual cost (dollars)	Cost per mile (cents)
Los Angeles	1	8,375	55.8
San Francisco	7	7,152	47.7
Honolulu	8	6,832	45.5
Phoenix	9	6,772	45.1
Detroit	10	6,731	44.9
Sioux Falls	80	5,368	35.8

^{1/} Among 80 cities surveyed.

Source: Runzheimer International, cited in *The Honolulu Advertiser*, April 4, 1995, p. A1.

Table 18.21-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1984 TO 1994, AND BY COUNTIES, 1993 AND 1994

	Highway fuel c	Highway fuel consumption 1/		es of travel
Year and county	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
4004	220 404	470	C 40C 2	0.044
1984 1985	339,491 345,672	473 461	6,486.3 6,761.5	9,044 9,027
1986	,	464	,	9,02 <i>1</i> 9,034
1987	357,716	464 461	6,970.7	·
	367,984	464	7,217.2	9,041
1988	378,988	_	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
1993	409,940	468	7,945.3	9,063
1994 COUNTIES: 1993	428,558	490	7,925.2	9,056
COUNTIES. 1993				
Honolulu	273,496	456	5,296.9	8,837
Hawaii	62,088	554	1,092.0	9,742
Kauai	23,641	429	567.9	10,315
Maui	50,715	460	988.5	8,971
COUNTIES: 1994				
Honolulu	284,305	476	5,274.1	8,828
Hawaii	65,234	579	1,097.3	9,736
Kauai	25,086	462	559.9	10,315
Maui	53,933	487	993.9	8,973

^{1/} Includes gasoline, diesel oil, and butane gas.

^{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.

Table 18.22-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1992 TO 1994

Site	1992	1993	1994
Pali Highway at tunnels Likelike Highway at tunnels H-1 Freeway at Manoa-Palolo Drainage Canal 1/ H-1 Freeway at Kapalama Drainage Canal Bridge Nimitz Highway at Kapalama Drainage Canal Bridge Kalanianaole Highway east of Ainakoa Ave.	58,384	52,720	52,626
	59,678	56,497	54,170
	129,811	110,852	110,356
	209,922	226,747	222,139
	76,555	80,909	77,558
	73,944	77,292	77,875

^{1/} Includes Kapiolani on- and off-ramps prior to 1993.

Table 18.23-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1988 TO 1993

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

			Rural		
Year	Statewide	Urban interstate	Arterials 1/	Major collectors	
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	56.2	57.8	53.4	55.5	
1993	2/ 56.3	58.4	53.6	52.7	

^{1/} Other than freeways and expressways.

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

^{2/} The corresponding U.S. average was 56.9. Hawaii ranked 39th among the 50 states.

Table 18.24-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1984 TO 1994, AND BY COUNTIES, 1992 TO 1994

	Major traffic	accidents 1/	Persons injur	Persons injured or killed		
Year	Total	Fatal	Injured only	Killed		
1984	17,657	127	12,390	136		
1985	19,577	118	12,613	126		
1986	20,854	108	10,941	117		
1987	23,625	126	11,996	138		
1988	26,071	129	12,818	149		
1989	26,891	127	12,835	147		
1990	26,639	154	14,048	176		
1991	21,824	119	12,792	135		
1992	21,834	121	13,403	128		
1993	21,464	121	13,879	133		
1994	(NA)	110	(NA)	122		
COUNTIES: 1992						
Honolulu	16,617	64	9,308	66		
Hawaii	2,932	26	2,055	27		
Kauai	784	10	671	10		
Maui	1,501	21	1,369	25		
COUNTIES: 1993						
Honolulu	16,456	71	9,803	76		
Hawaii	2,857	29	2,165	31		
Kauai	680	6	553	9		
Maui	1,471	15	1,358	17		
COUNTIES: 1994						
Honolulu	(NA)	61	(NA)	65		
Hawaii	(NA)	28	(NA)	33		
Kauai	(NA)	9	(NA)	12		
Maui	(NA)	12	(NA)	12		

NA Not available.

^{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.

Table 18.25-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS: 1993 AND 1994

[As of December 31]

	Taxicabs 1/		Bicycles and mopeds 2/		
Island	1993	1993 1994		1994	
Hawaii Maui	97 178	109 178	6,039 3,424	5,623 4,554	
Lanai Molokai	- 4	- 4	67 106	53 92	
Oahu Kauai	1,683	1,808	100,572 3/ 1,834	106,491 2,403	
			,	,	

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

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

^{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.

Table 18.26-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1995

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

Date	Sub-compact	Compact	Mid-size	Full-size
October 19, 1000	27.02	38.92	42.69	49.04
October 18, 1989	37.93		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
January 20, 1995	54.23	54.98	61.23	67.23

Source: Information provided by listed companies.

Table 18.27-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS (SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1992

	State total 1/ Co				(SIC 751)	
Subject	SIC 751	SIC 7514	Honolulu	Hawaii	Kauai	Maui
No. of establishments Receipts (mil. dol.)	82 332.1	64 320.0	36 195.0	18 38.6	6 23.6	22 74.8

^{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, 1992 Census of Service Industries, Hawaii, SC92-A-12 (August 1994), tables 1a, 6, and 7a.

Table 18.28-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: SEPTEMBER 1995

	Pas	ssenger carrier	Property carriers 2/		
County	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,345	8,228	223,693	5,518	31,481
Hawaii Maui Honolulu Kauai	119 219 908 99	1,167 1,786 4,517 758	36,840 45,926 120,924 20,003	1,391 849 2,862 416	4,462 3,979 19,990 2,181

^{1/} Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

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

^{2/} Includes truckers, moving companies, etc.

Table 18.29-- PUBLIC TRANSIT, FOR OAHU: 1984 TO 1994

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

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
4004	440	40.774.504	70,000,407	40.040.700
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
1994	495	19,323,877	79,309,437	24,849,857
1994	495	19,323,877	79,309,437	

^{1/} Estimated number of vehicle miles.

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

^{2/} Estimated number of passengers, including senior citizens and handicapped.

Table 18.30-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1992 TO 1994

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

Fare category	1992	1993	1994
All passengers	78,416,523	79,343,403	79,309,437
Adults, full fare Students School subsidy Stadium express Senior citizens and handicapped Free transfers	46,773,053 11,174,889 201,451 8,365 15,002,787 5,255,978	47,953,391 11,074,425 235,487 8,608 15,356,463 4,715,029	48,012,829 11,251,311 263,596 7,428 15,990,937 3,783,336
Average bus speed (m.p.h.)	14.8	14.8	15.0

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

Table 18.31-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1995

[In dollars]

	Cash f	ares 1/	Monthly passes		
Effective date	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	.85	.25	20.00	7.50	
July 1, 1995 3/	1.00	.50	25.00	12.50	

^{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.

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

^{2/} Zone fares initiated.

^{3/} Current fares as of July 14, 1995.

Table 18.32-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1984 TO 1994

[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
1004	6	107.076	1000	6	200.010
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	1994	6	390,862
1989	6	296,391			

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

Table 18.33-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1994

		Heliports 2/				
	State 3/					
Island	Com- mercial	General aviation	Military	Semi- private	State: commercial	Semi- private
State total	9	7	6	-	-	13
Hawaii Maui Kahoolawe Lanai Molokai Oahu Kauai Niihau Kure Atoll	2 2 - 1 1 1 2	2 1 - 1 2 1	1 - - - 3 1 -		- - - - - -	8 - - - 1 2 2

^{1/} Excludes private airports (not available).

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

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

Table 18.34-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993

	Rank 1/			Number		
Subject	1991	1992	1993	1991	1992	1993
Total aircraft operations Air carrier operations Total enplaned passengers 2/	16 21 15	22 21 15	24 23 19	403,570 196,047 8,772,316	403,708 202,559 8,740,091	358,543 185,959 8,484,364

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

Table 18.35-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1984 TO 1994

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu Inter- national Airport	Hilo Inter- national Airport 1/	Kona International Airport 2/	Kahului Airport	Lihue Airport	Molokai Airport
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
1994	359,569	86,292	66,438	179,227	91,582	38,369

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

^{2/} Formerly Keahole Airport; new name became effective April 26, 1993.

Table 18.36-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1994

[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	359,569	193,615	56,067	87,986	21,901
Hilo International	86,292	21,194	36,564	20,519	8,015
Kahului	179,227	56,393	85,373	33,292	4,169
Lihue	91,582	24,133	54,199	7,674	5,576
Kona International	66,438	24,923	14,460	21,003	6,052
Molokai	38,369	1,445	25,637	8,452	2,835

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

Table 18.37-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1992 TO 1995

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

Service	1992	1993	1994	1995
All carriers Transpacific only Domestic Foreign Transpacific and interisland Interisland only Passenger carriers Cargo and mail only	45 25 9 16 5 15 9	41 24 10 14 5 12 8 4	46 28 11 17 5 13 9	44 26 12 14 4 14 11

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

Table 18.38-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR ARRIVING FLIGHTS: 1989 TO 1994

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
1994	9,946,830	5,551,880	4,394,950

Source: Hawaii Visitors Bureau, records.

Table 18.39-- CIVIL FLYING: 1990 TO 1993

Item	1990	1991	1992	1993
Aircraft facilities, Dec. 31	50	48	47	47
Airports	34	33	32	32
Heliports	16	15	15	15
Public aircraft facilities, Dec. 31	16	17	17	18
Paved and lighted facilities, Dec. 31	12	12	13	13
raved and lighted facilities, Dec. 31	12	12	13	13
Large aircraft in operation, Dec.	52	56	59	50
Aloha Airlines	17	19	21	17
Hawaiian Airlines	35	29	29	24
Mid Pacific Airlines	-	8	9	9
General aviation: 1/				
Active civil aircraft, Dec.	561	484	372	312
Hours flown (1,000)	278	259	176	140
110d13 110W11 (1,000)	210	255	170	140
Active personnel, Dec. 31:				
Pilots, except instructors	3,505	3,339	3,293	3,088
Flight instructors	309	350	388	360
Nonpilot airmen 2/	3,306	3,492	3,711	3,828
	-,	-, -	-,	

^{1/} Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1993, 29.8 percent for aircraft and 42.2 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 18.40-- OVERSEAS AND INTER-ISLAND AIR PASSENGER MOVEMENTS: 1984 TO 1994

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

	Ov			
Year	Arrivals	Departures	Through	Inter-island passenger arrivals
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
1994	7,309,894	7,478,052	956,926	9,920,709

^{1/} Includes West Coast, Canada, Europe, and the Central and South Pacific. Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1994

	Passer	igers 1/	Cargo	(tons)	Mail (Mail (tons)	
Airport	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned	
OVERSEAS							
Total	7,478,052	7,309,894	169,543	154,480	23,961	60,981	
Honolulu Hilo	6,621,058	6,387,930	157,771	144,024	23,961	60,981 -	
Kahului Keahole Lihue	710,174 146,820 -	771,304 150,660 -	4,533 7,239 -	7,016 3,440 -	- - -	- - -	
INTERISLAND							
Total	9,920,709	9,920,709	74,452	74,452	13,982	13,982	
Honolulu Hilo Upolu Waimea-Kohala Keahole Kahului Hana Kapalua Molokai Kalaupapa Lanai Lihue Princeville 2/	4,489,460 790,172 - 1,513 981,913 2,173,862 6,966 95,994 128,466 7,340 81,990 1,146,319 13,714	4,540,602 813,449 - 1,455 959,190 2,119,178 6,789 92,610 125,054 6,930 89,252 1,151,971 14,229	45,857 15,518 - 4 4,329 5,104 - 253 168 - 24 3,195	26,487 9,501 - 8 8,474 18,250 - 470 381 4 668 10,272	8,800 1,210 - - 1,038 1,991 - 1 69 - 21 852	5,162 2,077 - 1,783 3,182 - 35 29 - 16 1,698	

^{1/} Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (956,926, passing through Honolulu International Airport).

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

^{2/} Privately owned.

Table 18.42-- AIR CARGO AND AIRMAIL: 1984 TO 1994

[In thousands of pounds]

	Overseas	air cargo	Oversea	s airmail	Interi	sland
Calendar year	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
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
1994	339,086	308,962	47,921	121,964	148,904	27,964

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

Table 18.43-- HELICOPTER TOURS: 1977 TO 1994

Subject	1977	1982	1987	1991	1992	1993	1994
Companies	9	14	33	33	31	25	25
Aircraft	15	35	72	88	89	87	82

Source: Hawaii Helicopter Operators Association, records.

Table 18.44-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1994

[Data for the 652 transpacific flights scheduled to depart from Honolulu during a one-week period]

	F	lights during wee	ek
Destination	Total	Final destination	Intermediate point
Tokyo	83	64	19
Nagoya	14	14	-
Osaka	22	22	_
Fukuoka	11	11	-
Sapporo	4	4	-
Taipei	19	19	-
Seoul	27	20	7
Manila	12	12	-
Sydney	11	11	-
Auckland	13	13	-
Guam	24	19	5
Vancouver	9	9	-
Toronto	4	4	-
Seattle	21	14	7
San Francisco	74	60	14
Los Angeles	153	97	56
Las Vegas	9	9	-
Denver	14	7	7
Dallas/Fort Worth	28	21	7
Chicago	35	28	7
Atlanta	12	12	-
New York	7	7	-
All others	123	91	32

Source: Greeters of Hawaii, *Jiffisked* [1m] July 1994. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.45-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND CITIES, BY UNITED AIRLINES: 1990 TO 1995

[As of July 1. Unrestricted one-way weekday coach fares in dollars to San Francisco, Los Angeles, and Chicago]

Between Honolulu and	1990	1991	1992	1993	1994	1995
San Francisco	560	642	400	566	566	596
Los Angeles	478	560	420	586	586	716
Chicago	741	905	690	886	886	916

Source: United Airlines, Customer Relations, records.

Table 18.46-- ONE-WAY FARES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1991 TO 1996

[As of August 1. Fares are identical between Honolulu and each of the Neighbor Islands]

Category	1991 1/	1992	1993	1994	1995	1996
Regular fare Kamaaina fare: 2/	65.95	69.95	74.00	74.00	74.00	85.00
Monday - Thursday Friday - Sunday	57.95 57.95	57.95 57.95	51.00 59.00	56.00 64.00	56.00 64.00	48.00 48.00

^{1/} 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.

Source: Hawaiian Airlines, records.

^{2/} Available only to Hawaii residents.

Table 18.47-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: AUGUST 1, 1996

[Dollars. Includes taxes but does not reflect \$3.00 airport charge where applicable]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	935	1,169	1,246
		· ·	·
Coach (unrestricted)	530	1/ 530	648
United Airlines, round-trip:			
First class	1,870	2,338	2,492
Coach (unrestricted)	1,060	1,060	1,296
Major carriers, lowest round-trip: 2/			
United Airlines	352	352	398
Lowest carrier	352	352	398
Highest carrier	352	352	398
nigriest carrier	352	352	398

^{1/} For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1995, see *Data Book 1996*, table 7.26. For earlier years, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 12, pp. 40-41.

^{2/} Restrictions apply. Fares are subject to change without notice. Payment up to 21 days before travel may be required. Fare may not be available for travel on certain days of the week or holidays. Source: International Travel Service, records.

Table 18.48-- STATE COMMERCIAL HARBORS: 1995

		Harbor basin				_	je area uare feet)
Island and harbor	Harbor entrance depth (feet)	Depth (feet)	Length (feet)	Width (feet)	Piers (linear feet)	Shedded	Open
Hawaii: Hilo Kawaihae Maui: Kahului Molokai:	35 40 35	35 35 35	2,300 1,500 2,400	1,400 1,450 2,050	2,787 1,562 3,019	122 23 124	566 427 850
Kaunakakai Oahu: Honolulu: Main Kapalama	23	23 { 40 40	1,500 3,300 3,400	600 1,520 1,000	691	7.4 1,560	129 8,460
Barbers Point Kauai: Nawiliwili Port Allen	42 40 35	38 35 35	2,100 1,950 1,500	1,800 1,540 1,200	1,860 1,291 1,200	109 35	1,647 1,150 32

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

Table 18.49-- HARBOR DEPTHS: 1995

[In feet]

	Controlli	ng depth	Project depth		
Harbor	Entrance Basin		Entrance channel	Basin	
Hilo Kawaihae Kahului Honolulu Barbers Point Nawiliwili	 42 45 42 41	34 36 34 40 37 34	 40 45 42 40	35 35 35 40 38 35	

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, *Calendar Year 1995*, Part 4 (November 1996), pp. 83-97.

Table 18.50-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS: DECEMBER 31, 1994

		State-op	Nor	Non-State		
	Catwalks	and piers Other moorage				
Island	Total	Vacant	Total	Vacant	Slips	Other moorage 2/
State total	1,740	113	481	40	2,748	1,747
Hawaii Maui Lanai Molokai Oahu Kauai	251 46 28 2 1,331 82	2 - 3 - 100 74	121 144 5 27 154 30	2 - - 2 22 8	- - - - 2,748 -	375 50 10 50 1,211 51

^{1/2,068} vessels were moored (1,627 at catwalks and piers, 441 at other moorage), and valid applications on file numbered 2,072.

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

^{2/} Includes moorings (142), ramps (16), and dry storage (1,589).

Table 18.51-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: 1993

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

	Nu	mber of aid	s to navigat		Highest	above	
	By control						
Island	Total	Federal	Other 1/	Light- houses	Greatest nominal range (naut. miles)	Sea level (feet)	Ground (feet)
Total	627	311	316	20	2/ 25	3/ 913	4/ 138
Hawaii Maui Molokini Kahoolawe Lanai Molokai Oahu Kauai Niihau Lehua Midway	70 52 1 1 14 18 324 48 - 1	57 22 1 1 8 11 152 28 - 1	13 30 - - 6 7 172 20 - -	8 2 - - 1 5 4 - -	24 24 7 7 8 25 25 25 - 7 4	156 170 182 120 91 213 913 174 - 704 43	115 48 30 20 13 138 71 80 -
At sea	73	5	68	-	-	-	- (۱۷/۸)

NA Not available.

Source: 14th Coast Guard District, April 15, 1993.

^{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.

Table 18.52-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1994

Subject	Number	Subject	Number
Certificates outstanding	13,839	Type of vessel:	
ű	,	Cabin motorboat	2,195
Length:		Open motorboat	5,102
Under 16 feet	5,573	Runabout	2,653
16 to less than 26 feet	6,732	Sail/inboard	601
26 to less than 40 feet	1,336	Sail/outboard	564
40 to 65 feet	182	Sail only	789
Over 65 feet	16	Motor vessel over 65 feet	9
Median (feet)	18.0	Other	1,926
Hull material:		Uses:	
Wood	897	Pleasure	12,305
Fiberglass	11,093	Commercial fishing	580
Metal	520	Charter fishing	23
Inflatable	1,122	Commercial passenger	255
Other	207	Other commercial	76
		Livery	197
Propulsion:		Dealer or manufacturer	30
Inboard	881	Youth group	62
Outboard	8,103	Government	261
Inboard/outboard	1,979	Other	50
Sail/inboard	601		
Sail/outboard	564	Island kept:	
Sail only	789	Hawaii	1,887
Manual	207	Kauai	1,261
Other	715	Lanai	59
		Maui	1,353
Type of storage:		Molokai	156
On water	2,449	Oahu	9,123
On land	11,390		

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

Table 18.53-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1989 TO 1994

Category	1989	1990	1991	1992	1993	1994
Documented 1/	1,600	1,700	1,775	(NA)	(NA)	(NA)
Numbered 2/	13,501	14,081	13,592	13,973	13,832	13,839

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 Land and Natural Resources, *Report of Undocumented Vessel Registration* (annual).

Table 18.54-- BOATING ACCIDENTS: 1989 TO 1994

	Number of	accidents	Number o	of persons		
Year	Total	Fatal	Injured, Killed not fatally		Number of vessels involved	Amount of damage (\$1,000)
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
1994	25	3	4	9	28	256.9

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

Table 18.55-- VESSEL ARRIVALS, BY DRAFT: ANNUALLY, 1994 AND 1995

[Excludes domestic fishing craft]

		1994		1995			
Harbor	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more	
Hilo	817	793	24	835	798	37	
Kawaihae	643	643	-	705	703	2	
Kahului	1,228	1,202	26	1,238	1,211	27	
Kaunakakai	1,581	1,581	-	1,802	1,802	-	
Kalaupapa	19	19	-	31	31	-	
Honolulu	7,760	5,983	1,777	7,999	6,215	1,784	
Barbers Point	1,050	915	135	1,227	1,096	131	
Nawiliwili	607	584	23	620	593	27	
Port Allen	264	264	-	299	1/ 299	-	

^{1/ 29} feet and less.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, (annual), Part 4.

Table 18.56-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1983 TO 1994

[Years ended June 30]

	Oversea	s vessels	Interislar	nd vessels
Year	Number	Cargo tonnage	Number	Cargo tonnage
1983	1,775	4,868,930	2,662	2,322,957
1984	1,686	4,870,182	2,660	2,369,863
1985	1,749	5,071,250	2,412	1,884,925
1986	1,825	5,379,135	2,697	2,121,858
1987	2,080	5,736,005	2,848	2,135,235
1988	2,014	6,586,749	3,172	2,746,776
1989	2,024	6,877,963	3,101	2,892,709
1990	2,159	7,439,568	3,212	2,917,984
1991	2,066	6,939,735	3,190	3,962,085
1992	2,104	8,235,947	3,207	3,101,050
1993	1,918	7,462,619	2,440	2,731,645
1994	1,603	6,434,257	2,737	2,372,971

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

Table 18.57-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1989 TO 1994

[Fiscal years ended June 30]

Type of passenger	1989	1990	1991	1992	1993	1994
Overseas:						
In	15,993	9,770	17,503	15,730	14,712	14,502
Out	16,716	9,084	17,812	15,766	14,942	14,502
Interisland:						
In	78,710	67,199	67,409	72,493	61,563	68,229
Out	78,711	67,199	67,409	72,493	61,563	68,229

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

Table 18.58-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS: 1981 TO 1995

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1981 1982 1983 1984 1985 1986 1987	1,442 1,382 1,522 1,571 1,319 1,199 1,366 1,456	433 441 441 546 527 592 871 655	1,552 1,484 1,843 1,889 1,517 1,627 2,035 2,157	8,270 7,593 8,040 8,470 7,986 8,604 9,737 10,655	5,590 5,707 7,051 6,565 6,752 5,629 7,135 7,511	907 808 1,009 945 933 745 916 876
1989 1990 1991 1992 1993 1994 1995	1,569 1,690 1,556 1,588 1,469 1,455 1,354	732 887 745 790 655 736 873	2,279 2,409 2,434 2,357 2,216 2,368 2,586	10,360 11,341 11,208 11,522 10,595 11,672 11,545	7,374 8,034 9,002 8,824 9,357 9,022 8,233	1,038 959 1,005 1,143 1,283 1,151 1,130

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, Calendar Year 1990, Part 4, pp. 82-101 and 1995, Part 4, pp. 83-97.

Table 18.59-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1994

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,455	735	2,368	11,672	9,022	1,151
Foreign, except Canadian: Imports Exports	80 -	- -	23 -	1,413 301	4,255 799	5 -
Canadian: Imports Exports	7 7	- -	5 1	43 -	- -	7 -
Domestic, total Coastwise: 1/	1,362	735	2,339	9,915	3,969	1,139
Receipts Shipments Internal, total 2/	900 462 -	526 209 -	1,467 873 -	5,558 4,230 127	3,194 765 9	672 467 -

^{1/} Includes interisland and interstate.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, *Calendar Year 1994*, Part 4 (December 1995), pp. 83-99.

^{2/} Includes intraport.

Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR SPECIFIED HARBORS: 1994

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,455	987	469
Fabricated non-iron metal products	405	239	166
Food and farm products	352	134	211
Kawaihae	735	526	209
Kahului	2,368	1,495	874
Petroleum and petroleum products	297	289	8
Fabricated non-iron metal products	682	403	280
Food and farm products	640	204	436
Manufactured equipment, machinery and products	467	321	146
Kaunakakai	189	(NA)	(NA)
Honolulu	11,672	7,014	4,658
Petroleum and petroleum products	2,096	1,524	572
Lumber	275	223	52
Fabricated non-iron metal products	2,195	925	1,269
Food and farm products	2,870	1,800	1,070
Manufactured equipment, machinery and products	2,663	1,471	1,192
Vehicles and parts	924	423	502
Barbers Point	9,022	7,449	1,573
Petroleum and petroleum products	8,431	7,024	1,408
Nawiliwili	1,151	684	467
Fabricated non-iron metal products	461	260	201
Manufactured equipment, machinery and products	284	202	82
Port Allen	1	(NA)	(NA)

NA Not available.

^{1/} Includes foreign imports and coastwise receipts.

^{2/} Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1994*, Part 4 (December 1995), pp. 83-100.

Table 18.61-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1995

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,354	873	2,586	11,545	8,233	1,130
Foreign, except Canadian: Imports Exports	46 -	- -	66 -	1,891 247	3,974 751	6 -
Canadian: Imports Exports	4 -	- -	9	33 -	- -	10 -
Domestic, total Coastwise: 1/	1,304	873	2,511	9,375	3,508	1,114
Receipts Shipments Internal, total 2/	929 375 -	662 211 -	1,593 917 -	5,096 4,172 107	2,716 783 9	611 503 -

^{1/} Includes interisland and interstate.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, *Calendar Year 1995*, Part 4 (November 1996), pp. 83-97.

^{2/} Includes intraport.

Table 18.62-- WATERBORNE COMMERCE, BY COMMODITIES, FOR SPECIFIED HARBORS: 1995

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,354	979	375
Fabricated non-iron metal products	452	253	199
Food and farm products	205	112	93
Kawaihae	873	662	211
Kahului	2,586	1,668	917
Petroleum and petroleum products	434	434	-
Fabricated non-iron metal products	859	474	385
Food and farm products	546	172	374
Manufactured equipment, machinery and products	442	291	151
Kaunakakai	191	(NA)	(NA)
Honolulu	11,545	7,020	4,526
Petroleum and petroleum products	2,662	2,003	659
Lumber	215	162	53
Fabricated non-iron metal products	2,591	1,105	1,486
Food and farm products	2,347	1,510	837
Manufactured equipment, machinery and products	2,406	1,298	1,108
Vehicles and parts	839	375	464
Barbers Point	8,233	6,690	1,543
Petroleum and petroleum products	7,385	6,016	1,369
Nawiliwili	1,130	627	503
Fabricated non-iron metal products	557	286	271
Manufactured equipment, machinery and products	249	171	78
Port Allen	6	(NA)	(NA)

NA Not available.

^{1/} Includes foreign imports and coastwise receipts.

^{2/} Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1995*, Part 4 (November 1996), pp. 83-98.

Table 18.63-- TRANSPORTATION, COMMUNICATION, AND UTILITY INDUSTRIES, WITH AND WITHOUT PAYROLL: 1992

		Number of establishments			Revenue (million dollars)		
SIC code	Kind of business	Total	With payroll	Without payroll	Total	With payroll	Without payroll
41 42	Passenger transportation Motor freight transportation,	1,534	117	1,417	205	179	26
	warehousing	601	312	289	404	393	11
44	Water transportation	147	97	50	453	452	1
45pt.	Air transportation 1/	164	113	51	415	412	3
46	Pipelines, exc. natural gas	-	-	-	-	-	-
47	Transportation services	1,477	626	851	421	401	20
48	Communications	311	211	100	926	924	2
49	Electric, gas, sanitary services	90	57	33	946	944	1

^{1/} Data exclude large, certificated passenger carriers that report to the Office of Airline Statistics. Source: U.S. Bureau of the Census, 1992 Census of Transportation, Communications, and Utilities, Nonemployer Statistics Series, Summary, UC92-N-1 (March 1995), table 3.

Table 18.64-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND DESTINATION: 1993

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	11,462	24,748	(S)
Destination:			
Hawaii	10,616	22,071	700
Other states	846	2,677	(S)
California	578	1,472	3,818
Washington	32	90	256
Rest of U.S.	236	1,115	(S)
Mode of transportation:			
Single modes:	7,033	12,549	155
Truck	110	(S)	(S)
Air	(D)	(D)	(D)
Other			
Multiple modes:			
Truck and air	284	39	21
Truck and water	676	1,131	1,994
Other multiple	(S)	(S)	(S)
Other and unknown modes	1,469	(S)	(S)
Distance shipped:			
Less than 50 miles	8,848	19,890	282
50 to 1,999 miles	1,768	2,182	(S)
2,000 miles or more	847	2,676	(S)
Commodity:			
Farm products	555	387	(S)
Food or kindred products	2,882	3,015	2,837
Chemicals or allied products	969	(S)	(S)
Petroleum or coal products	2,849	12,901	(S)
Transportation equipment	531	53	-
Other commodities	3,676	(S)	(S)
_			

⁽D) Withheld to avoid disclosing data for individual companies.

⁽S) Data do not meet publication standards due to high sampling variability or other reasons.

Source: U.S. Bureau of the Census, 1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey, Hawaii, TC92-CF-12 (March 1996), pp. 3, 4, 10, 23.