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 618,000 in 1980 to 886,000 in 1990. Vehicle miles rose during the same period from 5.6 billion to 8.1 billion. Hawaii residents purchased 87,000 new passenger cars and 15,000 trucks in 1990. By the end of that year, 678,000 licensed drivers had access to 4,101 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 72 million in 1980 to 76 million in 1990.

Almost all scheduled interisland travel is by air. In 1990, airlines and air taxis reported 9.9 million interisland passengers, some 47 percent more than in 1980, and carried 73,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,800 active pilots, and about 500 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1990, 7,311,000 overseas passengers arrived by air, a 10-year growth of 71 percent. Overseas air cargo received that year weighed 169,000 tons.

Undocumented State-registered vessels as of December 31, 1990 numbered 14,081, compared with 8,000 in 1970. Median length was 18.1 feet, and five-sixths were stored on land. There were 1,700 documented vessels in the State in 1990, triple the 1970 total. Overseas vessels brought 17,500 passengers into the State in 1991. Receipts of cargo in 1988 included 11.0 million tons in overseas cargo and 5.3 million tons in interisland cargo.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1991, Sections 21 and 22.

Table 494.-- HIGHWAY DISTANCES: 1991

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	26.1 39.3 52.4 30.7 125.2 84.3 91.2 57.9 55.3 83.7	Kaunakakai-Sheraton Hotel Kaunakakai-Maunaloa Kaunakakai-Airport Kaunakakai-Halawa Airport-Sheraton Hotel OAHU 1/ Honolulu-Ala Moana Center Honolulu-UH, via King Street Honolulu-Waikiki	19.5 16.5 7.0 27.6 11.5
Hilo-Kawaihae, via Hamakua Waimea-Hawi Waimea-Kawaihae Kawaihae-Hawi Kawaihae-Kailua Kailua-Keahole Airport Kailua-Keauhou	69.5 21.4 11.5 18.0 48.4 6.8 6.9	Honolulu-Waimanalo, via Koko Head Honolulu-Waimanalo, via Nuuanu Honolulu-Kailua, via Nuuanu Honolulu-Kaneohe, via Kalihi Honolulu-Kahuku, via Kahaluu Honolulu-Kahuku, via Wahiawa Honolulu-Kaena Pt., via Wahiawa . Honolulu-Wahiawa Honolulu-Wahiawa	13.3 11.6 10.8 36.2 46.2 42.4 44.3 20.5
Wailuku-Kahului	2.3 4.2 53.7 59.8 38.2 17.6 38.0 20.9 7.9	Honolulu-Pearl Harbor Shipyard Honolulu-Honolulu Airport Waikiki-UH, via Kapahulu Waikiki-Honolulu Airport Waimanalo-Kahuku Circle island, via Makapuu Circle island, via Nuuanu Pali KAUAI	6.5 4.8 3.2 8.0 33.0 99.1 81.1
Lahaina-Wailea	32.4 8.9 3.7 2.7 8.0	Lihue-Haena Lihue-Wailua Lihue-Lihue Airport Lihue-Poipu Lihue-Mana Lihue-Kalalau Lookout Poipu-Kalalau Lookout Poipu-Princeville	38.0 5.9 2.0 11.9 32.9 44.6 36.8 40.7

^{1/} Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakaua and Lewers.

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

Table 495.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1990

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

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

Source follows next table.

Table 496.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1990

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

		Pay		
Island	Total mileage	Free- ways <u>1</u> /	Other	Unpaved
State total	4,100.88	96.55	3,790.32	214.01
Hawaii 2/	1,450.21 592.10 45.83 129.29 1,487.15 396.30	7.04 3.21 - - 86.30 -	1,367.79 532.19 31.83 117.29 1,367.41 373.81	75.38 56.70 14.00 12.00 33.44 22.49

 $[\]frac{1}{2}$ Classified as interstate and freeways and expressways. $\frac{1}{2}$ Data exclude Chain of Craters Road, closed due to

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

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

Table 497.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1990

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

^{1/} Limited to bridges under State jurisdiction and 20 feet or longer. Source: Hawaii State Department of Transportation, Highways Division, records.

Table 498.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1990

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

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

Table 499.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1980 TO 1990

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

			Motor ve	hicles	
Year	All vehicles regis- tered	All motor vehicles	Pas- senger vehicles <u>1</u> /	Ambu- lances, hearses, patrol wagons	Buses
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	633,846 667,019 689,468 (NA) 735,458 767,892 790,855 818,430 838,327 876,848 907,950	617,571 649,350 671,513 702,854 717,171 749,034 771,575 798,317 817,609 855,057 885,755	514,669 541,932 566,060 (NA) 599,845 625,823 642,636 661,674 670,877 695,397 715,464	85 88 80 (NA) 68 66 60 54 52 54	3,366 3,577 3,863 (NA) 4,034 4,189 4,158 4,198 4,215 4,203 4,303
According to the second section of the second section of the second section of the second section of the second		Motor vehic	les contin	ued	
Year	Trucks <u>1</u> /	Truck tractors, tow trucks	Truck crane, misc.	Motor- cycles, motor scooters <u>2</u> /	Trailers and semi- trailers
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	87,542 90,954 88,410 (NA) 101,233 106,673 112,053 119,338 129,452 141,845 151,857	1,725 1,641 1,395 (NA) 1,428 1,334 1,290 1,220 1,176 1,107 1,049	488 458 388 (NA) 364 342 323 318 293 292 306	9,696 10,700 11,317 (NA) 10,199 10,607 11,055 11,515 11,544 12,159 12,720	16,275 17,669 17,955 (NA) 18,287 18,858 19,280 20,113 20,718 21,791 22,195

Footnotes and source on next page.

Table 499.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1980 TO 1990 -- Con.

NA Not available.

1/ Beginning in 1979, vans, pickups, and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

 $\frac{2}{2}$ 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 500.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1980 TO 1990

[Taxable and non-taxable. Includes passenger cars, buses, trucks, and motor-cycles 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
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	617,571 649,350 671,513 702,854 717,171 749,034 771,575 798,317 817,609 855,057 885,755	454,316 476,995 495,629 515,002 525,599 544,976 556,935 571,738 579,998 599,379 611,919	70,047 75,812 77,024 80,090 80,840 85,806 89,918 93,095 96,360 103,724 109,910	30,604 32,932 33,931 35,365 35,236 37,659 40,585 43,925 47,235 51,455 55,537	62,604 63,611 64,929 72,397 75,496 80,593 84,137 89,559 94,016 100,499 108,389

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

Table 501.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1990 AND 1983

[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					
All vehicles	907,950	624,582	114,551	57 , 795	111,022
Motor vehicles Passenger vehicles Automobiles Trucks Buses Ambulances, hearses Freight Trucks Truck tractors, tow trucks Truck cranes, misc. Motorcycles 1/ Trailers, semi-trailers	885,755 811,503 715,464 91,680 4,303 56 61,532 60,177 1,049 306 12,720 22,195	611,919 563,090 497,116 62,470 3,467 37 39,066 38,485 472 109 9,763 12,663	109,910 97,854 87,299 10,287 257 11 10,519 10,224 244 51 1,537 4,641	55,537 51,520 44,171 7,249 99 1 3,489 3,343 112 34 528 2,258	108,389 99,039 86,878 11,674 480 7 8,458 8,125 221 112 892 2,633
1983					
Motor vehicles	702,854 30,442 672,412	515,002 18,580 496,422	80,090 2,891 77,199	35,365 1,478 33,887	72,397 7,493 64,904

1/ Including motorscooters but excluding mopeds (1.5 HP or less), legal $\overline{1}$ y classified as bicycles.

Source: 1990 from City and County of Honolulu, Department of Data Systems, records; 1983 from Applied Analysis, Inc., Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii (August 1987), and records.

Table 502.-- TRUCK CHARACTERISTICS: 1977, 1982, AND 1987
[Percent]

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

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

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

Table 503.-- VEHICLE DENSITIES: 1970 TO 1990

Measure	1970	1975	1980	1985	1990
Motor vehicles per 1,000 persons 1/ Mile of street or highway Persons per 1/ Motor vehicle Mile of street or highway	115 2.0	532 134 1.9 252	585 158 1.7 270	657 184 1.5 280	705 216 1.4 306

1/ Based on de facto population.

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

Table 504.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1985 TO 1990

Year	Total	Passenger cars	Motor trucks
1985	67,875	51,330	16,545
	68,060	49,680	18,380
	73,138	51,446	21,692
	78,454	56,278	22,176
	84,485	59,893	24,592
	97,754	71,950	25,804

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

Table 505.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY COUNTIES: 1985 TO 1990

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
1985	68,676	50,058	8,095	7,660	2,863
	68,379	48,497	8,535	7,896	3,451
	71,987	49,028	10,865	7,436	4,658
	74,962	49,401	11,413	8,410	5,738
	85,425	52,855	13,733	11,362	7,475
	102,721	57,424	19,737	14,527	11,033
	87,481	47,609	17,664	12,403	9,805
	15,240	9,815	2,073	2,124	1,228

Source: Hawaii Automobile Dealers Association, <u>HADA</u> Yearbook (annual), as revised.

Table 506.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY NAMEPLATE: 1990

	Retail and fleet		Retail registrations		Fleet registrations	
Nameplate	Rank	Number <u>1</u> /	Rank	Number	Rank	Number
All nameplates	•••	102,721	•••	54,381	•••	48,340
Chevrolet	1 2 3 4 5 6	22,929 14,888 12,548 7,716 6,902 4,887 32,361	4 14 1 3 2 5	5,570 853 8,125 5,695 6,781 4,628 22,729	1 2 3 6 14 9	16,943 14,035 4,423 2,459 123 727 9,630

^{1/} Independently calculated from county data, and may differ
significantly from sum of retail registrations and fleet registrations.
 Source: Hawaii Automobile Dealers Association, 1991 HADA Yearbook,
pp. 6, 8, and 9.

Table 507.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1989 AND 1990

			Imported $1/$	
Year	Total	Domestics <u>1</u> /	Number	Percent
1989 1990	85,425 102,721	50,923 70,718	34,502 32,003	40.4 31.2

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

Source: Hawaii Automobile Dealers Association, 1991 HADA Yearbook, p. 10.

Table 508.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1985 TO 1990

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1985 1986 1987 1988 1989	593,952 612,101 628,027 634,880 657,156 677,626	441,278 453,220 463,522 465,331 478,078 488,119	68,177 70,493 72,142 74,545 78,448 82,730	29,188 30,374 31,831 33,007 34,963 37,026	55,309 58,014 60,532 61,997 65,667 69,751

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

Table 509.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX: DECEMBER 31, 1990

Age	Both sexes	Male	Female
Total	677,626	366,208	311,418
15 to 19 years	37,911 63,333 167,308 163,745 99,298 74,548 53,213 16,880 1,390	21,256 34,152 87,486 85,690 53,248 39,991 31,682 11,650 1,053	16,655 29,181 79,822 78,055 46,050 34,557 21,531 5,230 337
Median age (years)	39.3	39.7	38.8

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

Table 510.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1980 TO 1990

	Highway consumpt		Vehicle miles of travel		
Year and county	Total (1,000 gallons)	Gallons per vehicle <u>2</u> /	Total (millions)	Per vehicle <u>2</u> /	
1980	330,734	536	5,570.0	9,019	
	319,588	492	5,855.7	9,018	
	323,827	482	6,048.3	9,007	
	327,769	(NA)	(NA)	(NA)	
	339,491	473	6,486.3	9,044	
	345,672	461	6,761.5	9,027	
	357,716	464	6,970.7	9,034	
	367,984	461	7,217.2	9,041	
	378,988	464	7,400.8	9,052	
	395,945	463	7,748.1	9,062	
	395,185	444	8,065.4	9,071	
Honolulu	264,613	434	5,395.7	8,847	
	58,834	525	1,094.8	9,765	
	24,107	421	591.7	10,322	
	47,631	434	983.2	8,957	

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

NA Not available. 1/ Includes gasoline, gasohol, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

^{2/} Based on motor vehicle total by county of inspection; includes both Taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Table 511.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1988 TO 1990

Site	1988	1989	1990
Pali Highway at tunnels Likelike Highway at tunnels H-1 Freeway at Manoa-Palolo	50,453 48,358	51,503 57,025	50,590 54,296
Drainage Canal 1/ H-1 Freeway at Kapalama Drainage	127,367	128,273	123,621
Canal Bridge	191,286	193,254 79,870	193,983 73,188
Kalanianaole Highway east of Ainakoa Ave	77,928	79,275	80,135

Table 512.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1985 TO 1990 [Average speeds, in miles per hour. Years ended September 30]

			Rural		
Year	State- wide	Urban inter- state	Inter- state	Other arter- ials	Major collec- tors
1985	54.8 55.1 55.0 56.2 55.7 1/56.7	56.9 58.4 58.4 59.5 58.2 58.9	58.0 (NA) (NA) (NA) (NA) (NA)	52.3 51.4 51.3 52.0 52.4 53.5	53.0 52.6 52.1 52.3 53.1 54.9

NA Not available.

NA Not available.

1/ Includes Kapiolani on- and off-ramps.

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

^{1/} The corresponding U.S. average was 56.6. Hawaii ranked 31st among the 50 States.

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

Table 513.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1979 TO 1989, AND BY COUNTIES, 1989

	Major traffic	accidents 1/	Persons injured	or killed
Year	Total	Fatal	Injured only	Killed
1979	19,158 18,301 16,582 16,407 16,372 17,657 19,577 20,852 23,618 26,039 26,893	183 165 136 143 131 127 118 108 126 129 127	13,963 13,026 11,999 11,865 11,852 12,390 12,613 10,941 11,987 12,801 12,834	205 185 150 161 139 136 126 117 138 149 147
Honolulu Hawaii Kauai Maui	20,388 3,290 1,201 2,014	70 33 6 18	8,475 2,263 663 1,433	78 40 8 21

^{1/} Traffic accidents with damage of \$300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 514.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS: 1990

[As	of	December	31
110	~	DOCOMOGI	U-1

Island	Taxicabs <u>1</u> /	Bicycles and mopeds 2/
Hawaii Maui Lanai Molokai Oahu Kauai	110 157 2 5 1,620	5,357 861 47 80 109,834 1,272

^{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.

Table 515.-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1991

[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
	39.97	46.46	49.71	57.21
	30.62	34.19	37.44	43.19

Source: Information provided by listed companies.

^{2/} Number licensed during 1989 and 1990 for Hawaii and Oahu, and during 1990 only for Maui, Lanai, Molokai, and Kauai. 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.

Table 516.-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS (SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987

	1 1 1		Co	Counties (SIC 751)			
Subject			Hono- lulu	Hawaii	Kauai	Maui	
No. of establishments Receipts (mil. dol.)	101 243.3	77 231.1	48 134.5	19 23.5	11 23.9	23 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 517. -- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1991

	Passenger carriers <u>1</u> /			Property carriers 2/		
County	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles	
State total	355	2,465	51,864	2,510	12,360	
Hawaii	21 32 289 13	199 408 1,660 198	5,165 9,264 32,779 4,656	470 346 1,525 169	2,332 1,405 7,859 764	

¹/ Includes mostly tour bus operators; excludes public transit (such as MTL, \overline{I} nc.), school buses, taxicabs, and rental car companies.

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

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

Table 518.-- PUBLIC TRANSIT, FOR OAHU: 1980 TO 1990 [Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage <u>1</u> /	Total passengers <u>2</u> /	Revenues (dollars)
1980	400 400 400 395 440 440 459 460 470 475	16,579,392 16,748,338 16,767,816 16,654,568 16,774,564 16,938,692 17,065,875 16,733,510 17,124,317 17,525,608 18,080,500	71,601,744 73,546,802 74,109,528 75,051,618 76,260,187 74,816,485 74,410,104 74,066,369 74,467,760 74,964,453 75,648,930	17,388,760 17,991,735 18,269,144 18,157,876 18,819,782 18,952,566 18,802,330 18,659,459 18,824,046 18,843,083 18,914,500

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

 $[\]frac{1}{2}$ Estimated number of revenue vehicle miles. Estimated number of revenue passengers, including senior citizens and handicapped.

Table 519.-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1988 TO 1990

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

Fare category	1988	1989	1990
All passengers	74,467,760	74,964,453	75,648,930
Adults, full fare Students School subsidy Stadium express Senior citizens and handicapped Chartered service Free transfers	43,182,518 11,533,291 311,027 10,309 14,197,265 4,967 5,228,383	43,699,952 11,558,225 242,201 11,249 14,319,192 - 5,133,592	44,508,635 11,301,854 212,211 7,894 14,454,242 - 5,164,094
Average bus speed (m.p.h.)	15.0	15.0	15.0

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

Table 520.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1991 [In dollars]

	Cash	fares <u>1</u> /	Monthly passes		
Effective date	Adult	School	Adult	School	
March 1, 1971	.25 .25 .25, .50 .25 .50 .60	.15 .10 .10, .25 .10 .25 .25	15.00 15.00	7.50 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.

Zone fares initiated.Current fares as of July 15, 1991.

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

Table 521.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1980 TO 1990

[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
1980 1981 1982 1983 1984	6 6 6 6 6	111,699 128,178 155,059 171,892 197,876 199,759	1986 1987 1988 1989	6 6 6 6 6	215,735 244,555 285,139 296,391 308,910

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

Table 522.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1990

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

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

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

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

Table 523.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1980 TO 1990

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu Inter- national Airport	Hilo Inter- national Airport <u>l</u> /	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	375,408 339,359 308,728 333,038 343,818 357,511 368,049 385,275 377,919 403,635 407,048	49,969 53,274 47,964 54,470 62,543 61,225 61,514 80,123 85,267 93,202 98,755	66,944 57,488 51,889 66,581 83,320 93,879 81,467 67,497 56,584 55,674 60,086	111,573 102,760 112,428 124,288 142,311 157,231 174,560 165,920 173,053 177,803 182,686	62,829 59,404 65,305 71,739 100,992 131,755 143,905 134,495 122,268 116,742 113,860	67,761 61,876 69,142 54,882 53,513 56,048 52,268 50,829 50,456 47,208 43,509

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

Source: follows next table. HAWAH STATE DEPTARTMENT OF TRANSPORTATION, AIRPORTS DIVISION, RECORDS

Table 524.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS AND ENPLANED PASSENGERS: 1988 AND 1989

	Rank <u>1</u> /		Number	
Subject	1988	1989	1988	1989
Total aircraft operations Air carrier operations Total enplaned passengers 2/	23 23 15	16 19 14	376,893 184,856 8,396,313	403,738 194,354 8,943,521

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 for 1988 (pp. 24 and 82) and 1989 (pp. 2-18 and 4-33).

Table 525.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1990

[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 Hilo International Kahului Lihue Keahole Molokai	407,048 98,755 182,686 113,860 60,086 43,509	194,357 19,709 56,532 34,656 27,608	57,506 42,249 75,923 63,754 10,838 33,145	122,349 23,550 44,209 8,230 17,504 9,121	32,836 13,247 6,022 7,220 4,136 1,231

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

Table 526.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1988 TO 1991

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

Service	1988	1989	1990	1991
All carriers	34 25 10 15 2 7 5	44 27 12 15 5 12 8 4	43 26 11 15 4 13 9 4	43 25 10 15 5 13 9

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

Table 527.-- CIVIL FLYING: 1986 TO 1989

Item	1986	1987	1988	1989
Aircraft facilities, Dec. 31	51	54	54	53
Airports	34	35	35	34
Heliports	17	19	19	19
Public aircraft facilities, Dec. 31	18	18	18	17
Paved and lighted facilities, Dec. 31.	12	12	12	12
Large aircraft in operation, Dec	54	57	51	51
Aloha Airlines	11	10	12	13
Hawaiian Airlines	24	29	31	31
Mid Pacific Airlines	19	18	8	7
			-	
General aviation: 1/				
Active civil aircraft, Dec	366	486	600	519
Standard error	118	140	153	119
Hours flown (1,000)	182	163	426	290
Standard error (1,000)	81	75	133	96
A-+ 71.				
Active personnel, Dec. 31:	7 727	7 777	7 500	7 014
Pilots, except instructors	3,327 246	3,373 271	3,598 293	3,814 284
Flight instructors	1	2,778		
Nonpilot airmen $\underline{2}/\ldots$	2,609	4,//0	3,008	3,185

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

^{2/} Mechanics, parachute riggers, ground instructors, dispatchers, flight navigators, and flight engineers.
Source: U.S. Department of Transportation, Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 528.-- OVERSEAS AND INTERISLAND AIR PASSENGER MOVEMENTS: 1980 TO 1990

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

	Overse	Inter- island passenger		
Year	Arrivals	Departures	Through	arrivals
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	4,270,633 4,290,752 4,669,747 4,760,459 5,263,213 5,317,862 6,041,078 6,265,211 6,653,346 7,022,986 7,310,635	4,174,739 4,292,159 4,641,716 4,714,689 5,261,373 5,293,528 6,083,508 6,317,747 6,713,621 7,234,653 7,562,156	1,118,987 1,032,264 882,832 777,490 727,947 858,501 841,241 1,109,850 1,421,707 1,167,954 1,065,408	6,737,894 6,724,113 7,327,447 7,037,687 7,632,239 7,878,598 8,340,048 8,802,594 8,964,928 9,634,077 9,907,154

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

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

Table 529.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1990

	Passeng	ers <u>1</u> /	Cargo	(tons)	Mai1	(tons)
Airport	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS		ARRIVALS		AKRIVALS		ARRIVALS
Total	7,562,156	7,310,635	147,663	168,862	16,011	19,099
Honolulu Hilo Kahului Keahole Lihue INTERISLAND	6,837,726 - 550,169 109,947 64,314	6,549,459 - 567,073 119,265 74,838	138,797 177 5,418 3,012 259	157,376 83 7,748 2,436 1,219	16,011	19,099 - - - -
	2 22 2 2 2		50 500	70 700		17 404
Total	9,907,154	9,907,154	72,709	72,709	11,424	11,424
Honolulu Hilo Upolu Waimea-Kohala Keahole Kahului Hana Molokai Kalaupapa Lanai Lihue Other airports 2/	4,445,160 721,104 5 7,312 987,598 1,920,221 11,216 164,472 6,315 56,240 1,358,837 228,674	4,470,017 739,506 8 7,187 961,886 1,899,508 11,005 166,777 5,929 56,599 1,350,334 238,398	49,309 14,247 100 3,159 3,883 - 328 - 31 1,487 165	20,979 10,887 7 39 8,683 18,770 34 455 4 579 11,774 498	6,786 1,231 - 922 1,616 - 65 - 6 798	1,379 2,501 - 26 - 1,309

¹/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,065,408, all passing through Honolulu International Airport).

^{2/} Privately owned.

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

Table 530.-- AIR CARGO AND AIRMAIL: 1980 TO 1990
[In thousands of pounds]

	Overseas air cargo		0versea	s airmail	Interisland	
Calendar year	Out- going	In- coming	Out- going	In- coming	Air cargo: incoming	Airmail: incoming
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	130,586 151,513 155,278 174,582 196,215 180,470 200,255 234,098 284,783 313,402 295,326	114,673 101,301 105,388 136,354 153,654 150,295 184,894 212,717 247,174 301,674 337,724	21,105 22,388 21,280 23,620 23,356 21,657 22,842 23,560 27,764 28,258 32,022	19,581 19,887 25,006 28,288 29,497 22,119 23,725 29,004 31,028 33,542 38,198	138,008 132,559 114,038 109,828 111,472 101,700 114,657 122,481 130,203 146,960 145,418	13,576 14,131 15,014 16,024 16,282 16,072 16,913 17,561 18,847 20,706 22,848

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

Table 531.-- HELICOPTER TOURS: 1977 TO 1991

Subject	1977	1982	1987	1988	1989	1990	1991
Companies	9	14	36	36	36	37	33
	15	26	71	74	74	78	90

Source: Hawaii Helicopter Operators Association, records.

Table 532.-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: APRIL 1991

[Data for the 569 transpacific flights scheduled to depart from Honolulu during a one-week period]

	Flights during week						
Destination	Total	Final destination	Intermediate point				
Tokyo Osaka Taipei Manila Sydney Auckland Melbourne Guam Vancouver Seattle Portland San Francisco Los Angeles Denver Dallas/Fort Worth Chicago Atlanta New York All others	80 20 10 15 40 22 14 12 22 23 7 74 152 9 19 21 12 7	75 20 5 15 26 8 14 12 22 16 7 64 126 7 12 21 12 7 100	5 - 5 - 14 14 14 - - 7 - 10 26 2 7 - - 41				

Source: Greeters of Hawaii, <u>Jiffisked^[tm] April 1991</u>. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 533.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1981 TO 1991

[Updated to September 13, 1991. For historical data, see Robert C. Schmitt, What People Paid to Travel (Hawaiian Historical Society, 1991), pp. 40-41]

	Flight			
Effective date o	į.	Coach, weekend	Coach weekday	time 1/ (hours, min.)
1981: Jan. 20 . Mar. 31 . June 17 . Oct. 1	415.12 425.13	265.08 286.09 296.09 280.08	265.08 286.09 296.09 280.08	5:02 5:02 5:02 5:00
1982: Mar. 1 Apr. 1 June 1 Sept. 1	412.12 412.12 412.12	219.07 310.09 328.10 331.13	219.07 310.09 328.10 331.13	5:00 5:00 5:00 5:00
1983: June 15.	i i	353.14	353.14	5:00
1984: Sept Oct Dec	415.00 454.00	353.14 353.00 364.00	353.14 353.00 364.00	5:00 5:02 5:02
1986: Nov. 14. 1987: Apr. 11. June 5. June 30. Aug. 7	588.00 598.00 605.00	459.00 469.00 479.00 486.00 494.00	459.00 469.00 479.00 486.00 494.00	5:03 5:00 5:00 5:00 5:00
1989: Feb. 4 June 3		514.00 524.00	514.00 524.00	5:06 5:05
1990: Jan. 4 Feb. 14 . March 2 . Sept. 1 . Oct. 2 Nov. 3	762.00 771.00 777.00 818.00 852.00 901.00	545.00 554.00 560.00 589.00 613.00 648.00	545.00 554.00 560.00 589.00 613.00 648.00	5:05 5:05 5:05 5:05 5:05 5:05
1991: July 1	895.00	642.00	642.00	5:05

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

Table 534.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: JULY 1, 1991

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way: First class Coach (unrestricted)	946	895	987
	633	642	708
United Airlines, round-trip: First class Coach (unrestricted)	1,892	1,790	1,974
	1,266	1,284	1,416
Major carriers, lowest round-trip: United Airlines 1/ Lowest carrier Highest carrier Average	438	438	528
	359	359	359
	608	688	708
	468	495	532

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

Source: United Airlines, records.

Table 535.-- ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1990 TO 1991

[Updated to August 28, 1991]

		One-way	fares 1/ (dollars)	
Effect	Effective date of change in fare			Kamaaina	
1990: 1991:	January 1 June 16 July 24 August 16 August 26 September 15 December 1 December 4 May 3 May 15	49.9 54.9 56.9 56.9 58.9 63.0 62.9	95 95 95 95 95 95 95	44.95 49.95 39.50 42.00 45.00 54.95 49.95 54.95	
	June 14	65.9 65.9		54.95 57.95	
Many Many (Many) and a second			ght time be		
Aircraft		Lihue	Kahului	Hilo	
DC-9		30 41	32 43	46 71	

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

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

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

Table 536.-- STATE COMMERCIAL HARBORS: 1991

	Harbor entrance				Piers	Storage area (1,000 square feet)	
Island and harbor	depth (feet)	Depth (feet)	Length (feet)	Width (feet)	(linear feet)	Shedded	Open
Hawaii: Hilo Kawaihae	35 40	35 35	2,300 1,500	1,400 1,450	2,787 1,012	122 23	496 166
Maui: Kahului	35	35	2,400	2,050	3,019	124	703
Molokai: Kaunakakai	23	23	1,500	600	691	10	123
Oahu: Honolulu: Main Kapalama Barbers Point .	} 45 42	{ 40 40 38	3,300 3,400 2,100	1,520 } 1,000 } 1,800	28,007 1,600	1,733 -	7,812 1,280
Kauai: Nawiliwili Port Allen	40 35	35 35	1,950 1,500	1,540 1,200	1,291 1,200	66 35	291 32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 5, 1991.

Table 537.-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS: 1990-1991

		State-opera	Non-State <u>2</u> /			
	Catwalks	and piers	Other	Other moorage		Other
Island	Total	Vacant	Total	Vacant	Slips	moorage 3/
State total	1,457	134	756	105	1,355	749
Hawaii	14 48 28 3 1,282 82	3 7 5 1 104 14	370 145 - 29 176 36	34 9 - 11 35 16	- - - 1,355	100 - - - - -

^{1/} As of December 31, 1990. At that time, 2,013 vessels were moored $(1,32\overline{3})$ at catwalks and piers, 690 at other moorage), and valid applications on file numbered 2,851.

405

^{2/} As of March 4, 1991. Totals for 15 organizations controlling moorage.

3/ Includes moorings (82), ramps (8), and dry storage (659).

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

Table 538.-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: [Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

	Numb	per of aids	s to navig	Greatest nominal	Highest above		
		By control		Light-	range (naut.	Sea 1eve1	Ground
Island	Total	Federal	Private	houses	miles)	(feet)	(feet)
Total .	430	300	130	22	<u>1</u> / 25	<u>2</u> / 931	<u>3</u> / 138
Hawaii Maui Molokini Kahoolawe Lanai Molokai Oahu Kauai Niihau Lehua Midway At sea	63 44 1 1 14 18 219 39 - 1 25 5	50 27 1 1 8 10 150 22 - 1 25 5	13 17 - - 6 8 69 17 - - -	7 4 - - 1 4 6 - 1	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 - 10 (NA)

NA Not available.

^{1/} Molokai Light, Kaena Point Light, and Kilauea Light.

2/ Kaena Point Light.

3/ Molokai Light.

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

Table 539.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1990

Subject	Number	Subject	Number
Certificates outstanding . Length: Under 16 feet	14,081 5,581 6,978 1,319 203 18.1 1,235 10,928 541 1,147 230 935 8,427 2,090 557 576 889 256 351 2,367 11,714	Type of vessel: Cabin motorboat Open motorboat Runabout Sail/inboard Sail/outboard Sail only Motor vessel over 65 feet Other Uses: Pleasure Commercial fishing Charter fishing Commercial passenger Other commercial Livery Dealer or manufacturer Youth group Government Other Island kept: Hawaii Kauai Lanai Maui Molokai Oahu	2,336 5,367 2,863 557 576 1,098 7 1,277 12,161 1,038 27 243 63 219 43 44 190 53 1,980 1,181 56 1,238 473 9,153

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

Table 540.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1986 TO 1991

Category	1986	1987	1988	1989	1990	1991
Documented $1/\dots$	1,348	1,389	1,380	1,600	1,700	1,800
Numbered $2/\dots$	14,052	14,008	14,250	13,501	14,081	

¹/ Vessels documented under the laws of the United States with the U.S. $\overline{\text{C}}$ oast 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.

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 541.-- BOATING ACCIDENTS: 1985 TO 1990

		mber of cidents	Number of persons		Number	Amoum t	
Year	Total	Fatal	Killed	Injured non- fatally	of vessels involved	Amount of damage (\$1,000)	
1985 1986 1987 1988 1989	41 54 62 31 40 21	2 3 1 4 1 2	5 3 2 5 1 3	10 14 18 11 28 6	50 69 76 41 48 25	417.3 293.0 720.2 209.6 216.8 271.7	

Source: U.S. Department of Transportation, Coast Guard, <u>Boating Statistics</u> (annual); Hawaii State Department of Transportation, <u>Harbors Division</u>, Boating Branch, <u>Reportable Boating Accident Statistics for Period 1988 to 1990.</u>

Table 542.-- HARBOR DEPTHS AND VESSEL ARRIVALS, BY DRAFT: 1989

[Excludes domestic fishing craft]

	Controlling d	lepth (feet)	Inbound vessels, by draft				
Harbor	Entrance channel	Basin	Total	18 feet and less	19 feet and more		
Hilo	42 45 42 41	34 36 34 40 37 34	1,445 800 1,766 738 8 1/7,104 558 1,079 100	1,278 792 1,630 738 8 6,415 475 966 (NA)	167 8 136 - 689 83 113 (NA)		

NA Not available.

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.

^{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).

Table 543.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1981 TO 1991

[Years ended June 30]

	0vers	eas vessels	Interisland vessels			
Year	Number	Gross tonnage	Number	Gross tonnage		
1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	1,968 1,943 1,775 1,686 1,749 1,825 2,080 2,014 2,024 2,159 2,066	10,959,161 9,604,985 10,406,544 10,397,905 9,398,179 9,450,373 9,974,948 10,548,893 11,219,662 11,752,880 13,862,771	2,597 2,496 2,662 2,660 2,412 2,697 2,848 3,172 3,101 3,212 3,190	2,670,405 2,598,632 2,623,321 3,649,085 4,480,660 4,913,219 5,200,667 (NA) (NA) (NA)		

NA Not available.

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

Table 544.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1986 TO 1991

[Fiscal years ended June 30]

Type of passenger	1986	1987	1988	1989	1990	1991
Overseas: In Out	6,537	8,681	5,815	15,993	9,770	17,503
	6,190	8,103	5,350	16,716	9,084	17,812
Interisland: In Out	84,943	71,049	77,731	78,710	67,199	67,409
	82,895	69,337	71,804	78,711	67,199	67,409

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

Table 545.-- OVERSEAS AND INTERISLAND SHIPPING: 1986 TO 1989

[In short tons]

Calendar	Ove	erseas cargo		Interisland cargo		
year	Total	In	Out	Total	In	Out
1986 1987 1988 1989	13,140,832	9,767,966 11,019,824	2,070,225 2,611,849 2,121,008 1,728,866	8,464,107 10,358,749 10,844,603 11,483,387	5,071,134 5,267,754	4,222,203 5,287,615 5,576,849 5,829,437

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

Table 546.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1985 TO 1989

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

 $[\]frac{1}{2}$ Excludes cargo carried by Army and Navy vessels and cargo in transit. $\frac{2}{7}$ Total arrivals and departures for transpacific, interisland, and local trave $\frac{1}{7}$.

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 547.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989
[In short tons. Commodities under 150,000 tons not shown separately]

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

Continued on next page.

Table 547.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989 -- Con.

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

NA Not available.

NEC Not elsewhere classified.

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

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

Table 548.-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES ESTABLISHMENTS: 1987 AND 1989

[Includes only establishments with payroll]

1987 SIC code	Kind of business	No. of establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees,
42	Motor freight transp., warehousing Water transportation Transportation services 1989	215	192,336	66,389	3,734
44		58	147,349	44,168	1,547
47		550	241,602	83,405	5,755
42	Motor freight transp., warehousing Water transportation Transportation services	205	(NA)	90,746	4,070
44		59	(NA)	71,918	2,883
47		550	(NA)	114,254	6,627

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 1989, Hawaii, CBP-89-13 (October 1991), table 1a.