

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: 1997*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1997

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

1/ Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

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

Table 18.02-- 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]

| Island | Total mileage | Paved | | Unpaved |
|-------------|---------------|----------|----------|---------|
| | | Freeways | Other | |
| 1993 | | | | |
| State total | 4,105.94 | 96.82 | 3,811.12 | 198.00 |
| Hawaii 1/ | 1,433.10 | 6.56 | 1,367.17 | 59.37 |
| Maui 1/ | 621.90 | 3.21 | 561.99 | 56.70 |
| Lanai | 46.68 | - | 32.68 | 14.00 |
| Molokai | 129.33 | - | 117.33 | 12.00 |
| Oahu | 1,471.47 | 87.05 | 1,350.98 | 33.44 |
| Kauai | 403.46 | - | 380.97 | 22.49 |
| Niihau | - | - | - | - |
| 1994 | | | | |
| State total | 4,100.07 | 77.33 | 3,824.74 | 198.00 |
| Hawaii 1/ | 1,420.89 | - | 1,361.52 | 59.37 |
| Maui 1/ | 609.24 | - | 552.54 | 56.70 |
| Lanai | 46.59 | - | 32.59 | 14.00 |
| Molokai | 129.26 | - | 117.26 | 12.00 |
| Oahu | 1,485.75 | 77.33 | 1,374.98 | 33.44 |
| Kauai | 408.34 | - | 385.85 | 22.49 |
| Niihau | - | - | - | - |

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

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

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 |

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

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1997

| Island | Number of bridges 1/ | Longest bridge | | Highest bridge | |
|---------|----------------------|-----------------|---------------|----------------|---------------|
| | | Location | Length (feet) | Location | Height (feet) |
| State | 734 | Airport Viaduct | 14,890 | Nanue | 208 |
| Hawaii | 133 | Hakalau | 775 | Nanue | 208 |
| Maui | 99 | Honokahua | 600 | Uaoa | 79 |
| Lanai | - | None | - | None | - |
| Molokai | 19 | Manawainui | 360 | Manawainui | 50 |
| Oahu | 429 | Airport Viaduct | 14,890 | Kipapa | 156 |
| Kauai | 54 | Hanamaulu | 1,150 | Wahiawa, Koloa | 90 |

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

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

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1997

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

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

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1987 TO 1997**

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

| Year | All vehicles registered | Motor vehicles | | | | |
|------|-------------------------|-----------------------------|-----------------------|------------------------------------|----------------------------|--|
| | | All motor vehicles | Passenger vehicles 1/ | Ambulances, hearses, patrol wagons | Buses | |
| 1987 | 818,430 | 798,317 | 661,674 | 54 | 4,198 | |
| 1988 | 838,327 | 817,609 | 670,877 | 52 | 4,215 | |
| 1989 | 876,848 | 855,057 | 695,397 | 54 | 4,203 | |
| 1990 | 911,283 | 889,096 | 718,204 | 55 | 4,308 | |
| 1991 | 920,124 | 897,193 | 717,907 | 54 | 4,309 | |
| 1992 | 908,738 | 885,761 | 703,983 | 53 | 4,282 | |
| 1993 | 903,550 | 880,152 | 693,283 | 48 | 4,032 | |
| 1994 | 898,008 | 875,144 | 691,158 | 53 | 3,772 | |
| 1995 | 901,291 | 877,756 | 694,239 | 54 | 3,660 | |
| 1996 | 907,770 | 884,617 | 703,094 | 59 | 3,468 | |
| 1997 | 906,964 | 884,267 | 704,693 | 54 | 3,226 | |
| | | Motor vehicles -- continued | | | | |
| Year | Trucks 1/ | Truck tractors, tow trucks | Truck crane, misc. | Motor-cycles, motor-scooters 2/ | Trailers and semi-trailers | |
| 1987 | 119,338 | 1,220 | 318 | 11,515 | 20,113 | |
| 1988 | 129,452 | 1,176 | 293 | 11,544 | 20,718 | |
| 1989 | 141,845 | 1,107 | 292 | 12,159 | 21,791 | |
| 1990 | 152,453 | 1,043 | 313 | 12,720 | 22,187 | |
| 1991 | 159,831 | 972 | 323 | 13,797 | 22,931 | |
| 1992 | 160,952 | 871 | 298 | 15,322 | 22,977 | |
| 1993 | 165,209 | 757 | 283 | 16,540 | 23,398 | |
| 1994 | 162,348 | 630 | 249 | 16,934 | 22,864 | |
| 1995 | 161,609 | 567 | 239 | 17,388 | 23,535 | |
| 1996 | 160,013 | 504 | 225 | 17,254 | 23,153 | |
| 1997 | 158,457 | 457 | 220 | 17,160 | 22,697 | |

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

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

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

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1987 TO 1997**

[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 |
|-------------|--------------------|------------------------------------|-------------------------|------------------------|-----------------------|
| 1987 | 798,317 | 571,738 | 93,095 | 43,925 | 89,559 |
| 1988 | 817,609 | 579,998 | 96,360 | 47,235 | 94,016 |
| 1989 | 855,057 | 599,379 | 103,724 | 51,455 | 100,499 |
| 1990 | 889,096 | 612,742 | 110,834 | 55,927 | 109,593 |
| 1991 | 897,193 | 613,119 | 113,265 | 57,751 | 113,058 |
| 1992 | 885,761 | 611,513 | 113,080 | 51,165 | 110,003 |
| 1993 | 880,152 | 604,602 | 111,138 | 54,068 | 110,344 |
| 1994 | 875,144 | 600,087 | 111,532 | 52,817 | 110,708 |
| 1995 | 877,756 | 601,239 | 111,624 | 52,364 | 112,529 |
| 1996 | 884,617 | 598,772 | 115,647 | 52,984 | 117,214 |
| 1997 | 884,267 | 595,121 | 118,364 | 53,904 | 116,878 |

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

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1997**

[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 |
|-------------------------------|--------------------|------------------------------------|-------------------------|------------------------|-----------------------|
| All vehicles | 906,964 | 607,609 | 123,522 | 56,207 | 119,626 |
| Motor vehicles | 884,267 | 595,121 | 118,364 | 53,904 | 116,878 |
| Passenger vehicles 1/ | 704,693 | 484,761 | 90,281 | 39,078 | 90,573 |
| Ambulances | 54 | 30 | 14 | - | 10 |
| Buses | 3,226 | 2,633 | 240 | 25 | 328 |
| Trucks 1/ | 158,457 | 95,102 | 25,393 | 14,027 | 23,935 |
| Truck tractors | 457 | 201 | 103 | 42 | 111 |
| Truck cranes | 220 | 112 | 16 | 13 | 79 |
| Motorcycles, motorscooters 2/ | 17,160 | 12,282 | 2,317 | 719 | 1,842 |
| Trailers and semi-trailers | 22,697 | 12,488 | 5,158 | 2,303 | 2,748 |

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

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

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

**Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR
COUNTIES: DECEMBER 31, 1997**

[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 | 867,107 | 582,839 | 116,047 | 53,185 | 115,036 |
| Taxable vehicles | 799,943 | 518,793 | 114,888 | 52,442 | 113,820 |
| Exempt vehicles | 67,164 | 64,046 | 1,159 | 743 | 1,216 |
| Federal government | 342 | 329 | 10 | - | 3 |
| State government | 4,799 | 4,799 | - | - | - |
| County government | 6,070 | 4,090 | 553 | 470 | 957 |
| Fire department | 222 | 55 | 109 | 32 | 26 |
| Police department | 1,568 | 1,234 | 331 | - | 3 |
| Consulates | 67 | 66 | - | - | 1 |
| Disabled veterans | 118 | 82 | 8 | 21 | 7 |
| Military non-resident | 53,556 | 53,204 | 84 | 207 | 61 |
| Farm | 360 | 135 | 56 | 11 | 158 |
| Horseless carriage | 44 | 35 | 7 | 2 | - |
| Electric vehicles | 18 | 17 | 1 | - | - |

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

**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 CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1992 TO 1997**

| Year | State total | Honolulu | Maui | Hawaii | Kauai |
|-------------|--------------------|-----------------|-------------|---------------|--------------|
| 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 |
| 1997 | 71,777 | 40,349 | 15,629 | 9,368 | 6,431 |

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

**Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY NAMEPLATE: 1995 TO 1997**

| Nameplate 1/ | 1995 | | 1996 | | 1997 | |
|----------------|------|--------|------|--------|------|--------|
| | Rank | Units | Rank | Units | Rank | Units |
| All nameplates | ... | 72,526 | ... | 68,375 | ... | 71,777 |
| Chevrolet/Geo | 2 | 9,348 | 2 | 7,902 | 1 | 11,848 |
| Ford | 1 | 14,178 | 1 | 11,003 | 2 | 11,781 |
| Toyota | 4 | 6,572 | 3 | 7,355 | 3 | 7,634 |
| Dodge | 6 | 5,030 | 5 | 5,485 | 4 | 6,210 |
| Nissan | 3 | 7,360 | 4 | 7,160 | 5 | 5,204 |
| Honda | 5 | 5,103 | 6 | 4,708 | 6 | 4,823 |
| All others | ... | 24,935 | ... | 24,762 | ... | 24,277 |

1/ Shown separately for first six in 1997.

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

**Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1996 AND 1997**

| Year and place of manufacture | Cars and trucks | Cars | | | Trucks | | |
|----------------------------------|--------------------|--------|---------|--------|--------|--------|--------|
| | | Total | Retail | Rental | Total | Retail | Rental |
| 1996, total | 68,765 | 61,240 | 33,955 | 27,285 | 7,525 | 7,525 | - |
| Domestic | 42,783 | 37,948 | 15,811 | 22,137 | 4,835 | 4,835 | - |
| Imports | 25,982 | 23,292 | 18,144 | 5,148 | 2,690 | 2,690 | - |
| Percent imports | 37.8 | 38.0 | 53.4 | 18.9 | 35.7 | 35.7 | - |
| 1997, total | 71,777 | 63,952 | 34,858 | 29,094 | 7,825 | 7,629 | 196 |
| Domestic | 47,187 | 41,661 | 15,594 | 26,067 | 5,526 | 5,330 | 196 |
| Imports | 24,590 | 22,291 | 19,264 | 3,027 | 2,299 | 2,299 | - |
| Percent imports | 34.3 | 34.9 | 1/ 55.3 | 10.4 | 29.4 | 30.1 | - |

1/ Revised by the Hawaii State Department of Business, Economic Development & Tourism.
Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.15-- 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 |

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

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1995 AND 1996**

| Age | Both sexes | | Male | | Female | |
|--------------------|------------|---------|---------|---------|---------|---------|
| | 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 |

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

Table 18.17-- 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 18.18-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1987 TO 1997, AND BY COUNTIES, 1995 TO 1997**

| Year and county | Highway fuel consumption 1/ | | Vehicle miles of travel | |
|-----------------|-----------------------------|------------------------|-------------------------|----------------|
| | Total (1,000 gallons) | Gallons per vehicle 2/ | Total (millions) | Per vehicle 2/ |
| 1987 | 367,984 | 461 | 7,217.2 | 9,041 |
| 1988 | 378,988 | 464 | 7,400.8 | 9,052 |
| 1989 | 395,945 | 463 | 7,748.1 | 9,062 |
| 1990 | 395,185 | 444 | 8,065.4 | 9,071 |
| 1991 | 406,819 | 453 | 8,142.2 | 9,075 |
| 1992 | 405,963 | 457 | 8,065.5 | 9,070 |
| 1993 | 409,940 | 468 | 7,945.3 | 9,063 |
| 1994 | 428,558 | 490 | 7,925.2 | 9,056 |
| 1995 | 422,884 | 482 | 7,944.1 | 9,051 |
| 1996 | 426,370 | 482 | 8,005.9 | 9,050 |
| 1997 | 421,499 | 477 | 8,003.0 | 9,050 |
| COUNTIES: 1995 | | | | |
| Honolulu | 279,016 | 466 | 5,280.6 | 8,822 |
| Hawaii | 65,609 | 582 | 1,098.1 | 9,735 |
| Kauai | 24,625 | 457 | 555.3 | 10,311 |
| Maui | 53,634 | 477 | 1,010.1 | 8,977 |
| COUNTIES: 1996 | | | | |
| Honolulu | 281,130 | 471 | 5,258.9 | 8,818 |
| Hawaii | 65,567 | 562 | 1,136.1 | 9,735 |
| Kauai | 24,327 | 447 | 561.4 | 10,308 |
| Maui | 55,346 | 473 | 1,049.5 | 8,968 |
| COUNTIES: 1997 | | | | |
| Honolulu | 276,658 | 467 | 5,225.2 | 8,813 |
| Hawaii | 66,379 | 556 | 1,161.5 | 9,735 |
| Kauai | 24,691 | 463 | 570.3 | 10,305 |
| Maui | 53,771 | 461 | 1,046.0 | 8,963 |

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.

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

**Table 18.19-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1995 TO 1997**

| Site | 1995 | 1996 | 1997 |
|--|---------|---------|---------|
| Pali Highway at tunnels | 55,275 | 54,626 | 53,200 |
| Likelike Highway at tunnels | 53,515 | 52,122 | 50,837 |
| H-1 Freeway at Manoa-Palolo Drainage Canal | 110,046 | 114,229 | 115,262 |
| H-1 Freeway at Kapalama Drainage Canal Bridge | 222,410 | 222,386 | 222,253 |
| Nimitz Highway at Kapalama Drainage Canal Bridge | 94,794 | 83,583 | 83,851 |
| Kalaniana'ole Highway east of Ainakoa Ave. | 78,645 | 82,469 | 83,720 |

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

Table 18.20-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1988 TO 1993

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

| Year | Statewide | Urban interstate | Rural | |
|------|-----------|------------------|--------------|------------------|
| | | | 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.

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

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

Table 18.21-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1984 TO 1994, AND BY COUNTIES, 1992 TO 1994

| Year | Major traffic accidents 1/ | | Persons injured or killed | |
|----------------|----------------------------|-------|---------------------------|--------|
| | 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.

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

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1995 TO 1997**

[As of December 31]

| Island | Taxicabs 1/ | | | Bicycles and mopeds 2/ | | |
|---------|-------------|----------|----------|------------------------|---------|--------|
| | 1995 | 1996 | 1997 | 1995 | 1996 | 1997 |
| Hawaii | 129 | 137 | 154 | 3,131 | 2,395 | 3,254 |
| Maui | 213 | 213 | 216 | 4,393 | 4,446 | 5,098 |
| Lanai | - | - | - | 55 | 41 | 93 |
| Molokai | - | - | - | 201 | 61 | 154 |
| Oahu | 3/ 1,934 | 3/ 1,904 | 3/ 1,544 | 102,636 | 107,784 | 99,365 |
| Kauai | - | - | - | 1,294 | 1,049 | 1,003 |

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

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

3/ Fiscal year ending on June 30.

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

Table 18.23-- 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 18, 1989 | 37.93 | 38.92 | 43.68 | 48.94 |
| August 13, 1990 | 39.97 | 46.46 | 49.71 | 57.21 |
| August 28, 1991 | 30.62 | 34.19 | 37.44 | 43.19 |
| September 3, 1992 | 46.49 | 45.96 | 50.71 | 57.96 |
| September 8, 1993 | 44.73 | 45.99 | 49.49 | 56.99 |
| January 20, 1995 | 54.23 | 54.98 | 61.23 | 67.23 |

Source: Information provided by listed companies.

**Table 18.24-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES:
1992 AND 1995**

| Subject | State total 1/ | | Counties (SIC 751) | | | |
|-----------------------|----------------|----------|--------------------|--------|-------|------|
| | SIC 751 | SIC 7514 | Honolulu | Hawaii | Kauai | Maui |
| 1992 | | | | | | |
| No. of establishments | 82 | 64 | 36 | 18 | 6 | 22 |
| Receipts (mil. dol.) | 332.1 | 320.0 | 195.0 | 38.6 | 23.6 | 74.8 |
| 1995 2/ | | | | | | |
| No. of establishments | 78 | 60 | 37 | 13 | 7 | 21 |

1/ Most of the receipts for SIC 751 in 1992 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.

2/ Receipts are not available for 1995.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 6, and 7a, and *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), tables 1b and 2.

**Table 18.25-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
SEPTEMBER 1995**

| County | Passenger carriers 1/ | | | Property carriers 2/ | |
|-------------|-----------------------|--------------------|------------------|----------------------|--------------------|
| | 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 | 119 | 1,167 | 36,840 | 1,391 | 4,462 |
| Maui | 219 | 1,786 | 45,926 | 849 | 3,979 |
| Honolulu | 908 | 4,517 | 120,924 | 2,862 | 19,990 |
| Kauai | 99 | 758 | 20,003 | 416 | 2,181 |

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

2/ Includes truckers, moving companies, etc.

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

Table 18.26-- PUBLIC TRANSIT, FOR OAHU: 1987 TO 1997

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

| Year | Number of buses, Dec. 31 | Bus mileage 1/ | Total passengers 2/ | Revenues (dollars) |
|-------------|---------------------------------|-----------------------|----------------------------|---------------------------|
| 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 |
| 1995 | 525 | 19,277,975 | 80,837,153 | 26,960,330 |
| 1996 | 525 | 19,407,383 | 76,363,729 | 30,262,762 |
| 1997 | 525 | 19,748,202 | 74,407,852 | 29,572,046 |

1/ Estimated number of vehicle miles.

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

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.27-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND
AVERAGE BUS SPEED, FOR OAHU: 1995 TO 1997**

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

| Fare category | 1995 | 1996 | 1997 |
|------------------------------|-------------|-------------|-------------|
| All passengers | 80,837,153 | 76,363,729 | 74,407,852 |
| Adults, full fare | 48,159,154 | 43,800,889 | 42,191,326 |
| Students | 12,180,103 | 12,898,855 | 12,657,287 |
| School subsidy | 337,839 | 397,578 | 419,266 |
| Stadium express | 7,231 | 6,341 | 6,792 |
| Senior citizens and disabled | 16,044,418 | 15,340,261 | 14,863,996 |
| Free transfers | 4,108,408 | 3,819,725 | 3,712,865 |
| Visitor pass | - | 100,080 | 532,294 |
| Average bus speed (m.p.h.) | 15.0 | 15.0 | 15.0 |

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.28-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1998

[In dollars]

| Effective date | Cash fares 1/ | | Monthly passes | |
|------------------|---------------|----------|----------------|--------|
| | Adult | School | Adult | School |
| March 1, 1971 | .25 | .15 | ... | ... |
| March 2, 1971 | .25 | .10 | ... | ... |
| June 9, 1972 2/ | .25, .50 | .10, .25 | ... | ... |
| March 15, 1974 | .25 | .10 | ... | ... |
| November 1, 1979 | .50 | .25 | 15.00 | 7.50 |
| June 18, 1984 | .60 | .25 | 15.00 | 7.50 |
| October 1, 1993 | .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, disabled persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated and later eliminated.

3/ Most recent change as of April 28, 1998.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.29-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1987 TO 1997**

[The Lahaina Kaanapali & Pacific Railroad operates between Lahaina and Kaanapali on the island of Maui and the Hawaiian Railway operates in the Ewa District on the island of Oahu]

| Calendar year | Lahaina Kaanapali & Pacific Railroad | | Hawaiian Railway | | Calendar year | Lahaina Kaanapali & Pacific Railroad | | Hawaiian Railway | |
|---------------|--------------------------------------|------------|------------------|------------|---------------|--------------------------------------|------------|------------------|------------|
| | Miles of track | Passengers | Miles of track | Passengers | | Miles of track | Passengers | Miles of track | Passengers |
| 1987 | 6.0 | 244,555 | (NA) | (NA) | 1993 | 6 | 388,484 | (NA) | (NA) |
| 1988 | 6.0 | 285,139 | (NA) | (NA) | 1994 | 6 | 390,862 | 5.0 | 1/ 12,821 |
| 1989 | 6.0 | 296,391 | (NA) | (NA) | 1995 | 6 | 447,211 | 6.5 | 16,704 |
| 1990 | 6.0 | 308,910 | (NA) | (NA) | 1996 | 6 | 418,099 | 6.5 | 19,678 |
| 1991 | 6.0 | 316,079 | (NA) | (NA) | 1997 | 6 | 369,327 | 6.5 | 20,850 |
| 1992 | 6.0 | 385,261 | (NA) | (NA) | | | | | |

NA Not available.

1/ Data incomplete.

Source: Lahaina Kaanapali & Pacific Railroad, records; Hawaiian Railway, records.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997**

[As of December 31]

| Island | Airports 1/ | | | | Heliports 2/ | |
|---------------|-------------|------------------|----------|--------------|-------------------|--------------|
| | State 3/ | | Military | Semi-private | State: commercial | Semi-private |
| | Com-mercial | General aviation | | | | |
| 1995 | | | | | | |
| State total | 9 | 7 | 5 | - | - | 5 |
| Hawaii | 2 | 2 | 1 | - | - | 4 |
| Maui | 2 | 1 | - | - | - | - |
| Kahoolawe | - | - | - | - | - | - |
| Lanai | 1 | - | - | - | - | - |
| Molokai | 1 | 1 | - | - | - | - |
| Oahu | 1 | 2 | 3 | - | - | 1 |
| Kauai | 2 | 1 | - | - | - | - |
| Niihau | - | - | - | - | - | - |
| Kure Atoll 4/ | - | - | 1 | - | - | - |
| 1996 | | | | | | |
| State total | 9 | 7 | 5 | - | - | 5 |
| Hawaii | 2 | 2 | 1 | - | - | 4 |
| Maui | 2 | 1 | - | - | - | - |
| Kahoolawe | - | - | - | - | - | - |
| Lanai | 1 | - | - | - | - | - |
| Molokai | 1 | 1 | - | - | - | - |
| Oahu | 1 | 2 | 3 | - | - | 1 |
| Kauai | 2 | 1 | - | - | - | - |
| Niihau | - | - | - | - | - | - |
| Kure Atoll 4/ | - | - | 1 | - | - | - |

Continued on next page.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997 -- Con.**

| Island | Airports 1/ | | | | Heliports 2/ | |
|---------------|-------------|------------------|----------|--------------|-------------------|--------------|
| | State 3/ | | Military | Semi-private | State: commercial | Semi-private |
| | Com-mercial | General aviation | | | | |
| 1997 | | | | | | |
| State total | 9 | 7 | 4 | - | - | 5 |
| Hawaii | 2 | 2 | 1 | - | - | 4 |
| Maui | 2 | 1 | - | - | - | - |
| Kahoolawe | - | - | - | - | - | - |
| Lanai | 1 | - | - | - | - | - |
| Molokai | 1 | 1 | - | - | - | - |
| Oahu | 1 | 2 | 3 | - | - | 1 |
| Kauai | 2 | 1 | - | - | - | - |
| Niihau | - | - | - | - | - | - |
| Kure Atoll 4/ | 1 | - | - | - | - | - |

1/ Excludes private airports.

2/ Excludes military and private heliports.

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

4/ Owned by the U.S. Department of the Interior, Fish and Wildlife Service.

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

**Table 18.31-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993**

| Subject | Rank 1/ | | | Number | | |
|------------------------------|---------|------|------|-----------|-----------|-----------|
| | 1991 | 1992 | 1993 | 1991 | 1992 | 1993 |
| Total aircraft operations | 16 | 22 | 24 | 403,570 | 403,708 | 358,543 |
| Air carrier operations | 21 | 21 | 23 | 196,047 | 202,559 | 185,959 |
| Total enplaned passengers 2/ | 15 | 15 | 19 | 8,772,316 | 8,740,091 | 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 18.32-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1995 TO 1997

[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 |
|------------------------|----------------------|--------------------|-----------------|-------------------------|-----------------|
| 1995 | | | | | |
| Honolulu International | 373,926 | 198,248 | 71,703 | 80,522 | 23,453 |
| Hilo International | 84,917 | 21,402 | 33,084 | 22,384 | 8,047 |
| Kahului | 179,883 | 65,791 | 80,349 | 30,691 | 3,052 |
| Lihue | 97,400 | 27,788 | 56,024 | 9,597 | 3,991 |
| Kona International | 73,537 | 25,436 | 17,556 | 21,444 | 9,101 |
| Molokai | 45,517 | 1,194 | 30,365 | 9,460 | 4,498 |
| 1996 | | | | | |
| Honolulu International | 372,268 | 203,671 | 62,516 | 82,541 | 23,540 |
| Hilo International | 87,862 | 21,109 | 36,228 | 22,845 | 7,680 |
| Kahului | 178,590 | 67,136 | 78,722 | 29,976 | 2,756 |
| Lihue | 106,332 | 29,246 | 60,489 | 12,705 | 3,892 |
| Kona International | 77,025 | 29,195 | 16,556 | 21,591 | 9,683 |
| Molokai | 49,221 | 1,003 | 34,753 | 10,744 | 2,721 |
| 1997 | | | | | |
| Honolulu International | 358,784 | 185,557 | 61,894 | 87,584 | 23,749 |
| Hilo International | 101,521 | 21,616 | 47,229 | 25,020 | 7,656 |
| Kahului | 173,342 | 64,599 | 81,105 | 25,211 | 2,427 |
| Lihue | 111,349 | 29,996 | 60,267 | 17,259 | 3,827 |
| Kona International | 87,358 | 27,462 | 14,954 | 37,549 | 7,393 |
| Molokai | 44,667 | 1,017 | 31,290 | 10,844 | 1,516 |

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

**Table 18.33-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1987 TO 1997**

[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 |
|-------------|---|--|--|----------------------------|--------------------------|----------------------------|
| 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 |
| 1995 | 373,926 | 84,917 | 73,537 | 179,883 | 97,400 | 45,517 |
| 1996 | 372,268 | 87,862 | 77,025 | 178,590 | 106,332 | 49,221 |
| 1997 | 358,784 | 101,521 | 87,358 | 173,342 | 111,349 | 44,667 |

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

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

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

Table 18.34-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING HAWAII: 1994 TO 1997

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

| Service | 1994 | 1995 | 1996 | 1997 |
|------------------------------|-------------|-------------|-------------|-------------|
| All carriers | 46 | 44 | 39 | 40 |
| Transpacific only | 28 | 26 | 24 | 25 |
| Domestic | 11 | 12 | 12 | 12 |
| Foreign | 17 | 14 | 12 | 13 |
| Transpacific and interisland | 5 | 4 | 5 | 6 |
| Interisland only | 13 | 14 | 10 | 9 |
| Passenger carriers | 9 | 11 | 6 | 6 |
| Cargo and mail only | 4 | 3 | 4 | 3 |

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

**Table 18.35-- 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 18.36-- 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 |
| 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 |
| 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 18.37-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1987 TO 1997**

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

| Year | Overseas passengers 1/ | | | Inter-island passenger arrivals |
|------|------------------------|------------|-----------|---------------------------------------|
| | Arrivals | Departures | Through | |
| 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 |
| 1995 | 7,517,273 | 7,692,494 | 750,495 | 10,388,281 |
| 1996 | 7,700,229 | 7,992,620 | 690,833 | 10,581,825 |
| 1997 | 7,788,367 | 7,874,798 | 706,030 | 10,448,099 |

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

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

Table 18.38-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1995

| Airport | Passengers 1/ | | Cargo (tons) | | Mail (tons) | |
|--------------------|---------------|------------|--------------|----------|-------------|----------|
| | Enplaned | Deplaned | Enplaned | Deplaned | Enplaned | Deplaned |
| OVERSEAS | | | | | | |
| Total | 2/ 7,692,494 | 7,517,273 | 168,382 | 138,208 | 24,528 | 59,049 |
| Honolulu | 2/ 6,842,155 | 6,616,072 | 158,817 | 130,825 | 24,503 | 59,049 |
| Hilo | - | - | 50 | - | 15 | - |
| Kahului | 737,044 | 791,601 | 6,092 | 5,586 | 10 | - |
| Keahole-Kona | 113,115 | 108,972 | 3,423 | 1,797 | - | - |
| Lihue | 180 | 628 | - | - | - | - |
| INTERISLAND | | | | | | |
| Total | 10,388,281 | 10,388,281 | 74,587 | 74,587 | 13,823 | 13,823 |
| Honolulu | 4,700,528 | 4,763,644 | 44,339 | 28,055 | 8,751 | 5,069 |
| Hilo | 803,417 | 824,298 | 15,121 | 9,206 | 1,204 | 2,045 |
| Upolu | - | - | - | - | - | - |
| Waimea-Kohala | 1,651 | 1,194 | 8 | 10 | - | - |
| Keahole-Kona | 1,051,409 | 1,029,959 | 5,207 | 9,085 | 948 | 1,762 |
| Kahului | 2,295,009 | 2,231,107 | 6,020 | 17,294 | 2,021 | 3,145 |
| Hana | 6,446 | 6,273 | 1 | - | - | - |
| Kapalua | 74,014 | 73,284 | 249 | 538 | - | - |
| Molokai | 121,371 | 121,760 | 162 | 397 | 53 | 29 |
| Kalaupapa | 6,211 | 5,766 | - | - | - | - |
| Lanai | 83,138 | 86,544 | 6 | 589 | - | 66 |
| Lihue | 1,235,203 | 1,234,476 | 3,474 | 9,413 | 846 | 1,707 |
| Princeville 3/ | 9,884 | 9,976 | - | - | - | - |

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (750,495, passing through Honolulu International Airport).

3/ Privately owned.

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

Table 18.39-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1996

| Airport | Passengers 1/ | | Cargo (tons) | | Mail (tons) | |
|--------------------|---------------|------------|--------------|----------|-------------|----------|
| | Enplaned | Deplaned | Enplaned | Deplaned | Enplaned | Deplaned |
| OVERSEAS | | | | | | |
| Total | 2/ 7,992,620 | 7,700,229 | 177,733 | 148,428 | 24,327 | 57,204 |
| Honolulu | 2/ 7,186,081 | 6,773,519 | 167,341 | 141,060 | 24,327 | 57,204 |
| Hilo | - | - | 158 | 19 | - | - |
| Kahului | 680,302 | 768,174 | 7,184 | 5,776 | - | - |
| Keahole-Kona | 121,704 | 154,187 | 3,050 | 1,573 | - | - |
| Lihue | 4,533 | 4,349 | - | - | - | - |
| INTERISLAND | | | | | | |
| Total | 10,581,825 | 10,581,825 | 80,392 | 80,392 | 14,786 | 14,786 |
| Honolulu | 4,785,165 | 4,891,139 | 46,743 | 29,180 | 9,113 | 5,389 |
| Hilo | 795,216 | 827,527 | 15,363 | 10,092 | 1,502 | 2,389 |
| Upolu | - | - | - | - | - | - |
| Waimea-Kohala | 1,014 | 852 | 43 | 46 | - | - |
| Keahole-Kona | 1,154,761 | 1,093,750 | 7,358 | 10,505 | 966 | 1,482 |
| Kahului | 2,270,201 | 2,187,458 | 7,505 | 19,746 | 2,287 | 3,641 |
| Hana | 5,441 | 5,258 | 1 | - | - | - |
| Kapalua | 78,381 | 78,367 | 200 | 480 | - | - |
| Molokai | 121,872 | 175,605 | 126 | 555 | 8 | 76 |
| Kalaupapa | 4,216 | 3,885 | - | - | 1 | 6 |
| Lanai | 82,882 | 85,037 | 19 | 509 | 6 | 83 |
| Lihue | 1,276,454 | 1,276,471 | 3,034 | 9,279 | 903 | 1,720 |
| Princeville 3/ | 6,222 | 6,476 | - | - | - | - |

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (690,833, passing through Honolulu International Airport).

3/ Privately owned.

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

Table 18.40-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1997

| Airport | Passengers 1/ | | Cargo (tons) | | Mail (tons) | |
|--------------------|---------------|------------|--------------|----------|-------------|----------|
| | Enplaned | Deplaned | Enplaned | Deplaned | Enplaned | Deplaned |
| OVERSEAS | | | | | | |
| Total | 2/ 7,874,798 | 7,788,367 | 212,495 | 181,799 | 25,606 | 55,168 |
| Honolulu | 2/ 6,941,107 | 6,740,962 | 201,757 | 174,411 | 25,437 | 55,144 |
| Hilo | - | - | - | - | - | - |
| Kahului | 770,110 | 828,364 | 6,988 | 5,772 | 167 | 23 |
| Keahole-Kona | 157,671 | 213,268 | 3,750 | 1,616 | - | - |
| Lihue | 5,910 | 5,773 | - | - | 2 | 1 |
| INTERISLAND | | | | | | |
| Total | 10,448,099 | 10,448,099 | 86,577 | 86,577 | 15,636 | 15,636 |
| Honolulu | 4,645,878 | 4,846,369 | 49,983 | 29,242 | 10,317 | 5,284 |
| Hilo | 819,946 | 849,368 | 15,774 | 11,966 | 1,251 | 2,268 |
| Upolu | - | 9 | - | - | - | - |
| Waimea-Kohala | 1,300 | 830 | 54 | 21 | 48 | 121 |
| Keahole-Kona | 1,175,607 | 1,081,611 | 7,284 | 11,966 | 823 | 1,399 |
| Kahului | 2,208,703 | 2,070,434 | 8,984 | 22,122 | 2,195 | 4,643 |
| Hana | 5,126 | 4,955 | 1 | - | - | - |
| Kapalua | 88,485 | 89,444 | 236 | 482 | - | - |
| Molokai | 125,471 | 126,766 | 263 | 710 | 31 | 35 |
| Kalaupapa | 4,393 | 4,232 | 1 | 6 | - | - |
| Lanai | 88,777 | 89,626 | 154 | 721 | 37 | 31 |
| Lihue | 1,284,323 | 1,284,337 | 3,843 | 9,341 | 934 | 1,855 |
| Princeville 3/ | 90 | 118 | - | - | - | - |

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (706,030, passing through Honolulu International Airport).

3/ Privately owned.

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

Table 18.41-- AIR CARGO AND AIRMAIL: 1987 TO 1997

[In thousands of pounds]

| Calendar year | Overseas air cargo | | Overseas airmail | | Interisland | |
|---------------|--------------------|----------|------------------|----------|---------------------|-------------------|
| | Outgoing | Incoming | Outgoing | Incoming | Air cargo: incoming | Airmail: incoming |
| 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 |
| 1995 | 336,764 | 276,416 | 49,056 | 118,098 | 149,174 | 27,646 |
| 1996 | 355,466 | 296,856 | 48,654 | 114,408 | 160,784 | 29,572 |
| 1997 | 424,990 | 363,598 | 51,212 | 110,336 | 173,154 | 31,272 |

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

Table 18.42-- 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 18.43-- 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]

| Destination | Flights during week | | |
|-------------------|---------------------|-------------------|--------------------|
| | 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* ^[tm] July 1994. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.44-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND CITIES, BY UNITED AIRLINES: 1993 TO 1998

[As of July 1. Unrestricted one-way weekday coach fares in dollars]

| Between Honolulu and-- | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 1/ |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|----------------|
| San Francisco | 566 | 566 | 596 | 530 | 521 | 521 |
| Los Angeles | 586 | 586 | 716 | 530 | 521 | 521 |
| Chicago | 886 | 886 | 916 | - | 925 | 924 |

1/ As of July 27.

Source: United Airlines, Customer Relations, records.

Table 18.45-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1993 TO 1998

[As of July 1. Prior to May 21, 1997, fares were identical between Honolulu and each of the Neighbor Islands]

| Category | 1993 | 1994 | 1995 | 1996 | 1997 1/ | | 1998 |
|-------------------|------|------|------|------|---------|--------|-------|
| | | | | | Zone 1 | Zone 2 | |
| Regular fare | 74 | 74 | 74 | 85 | 78 | 80 | 88 |
| Kamaaina fare: 2/ | | | | | | | |
| Monday - Thursday | 51 | 56 | 56 | 48 | 45 | 47 | 3/ 55 |
| Friday - Sunday | 59 | 64 | 64 | 48 | 47 | 49 | 3/ 57 |

1/ Fares based upon zones were used for only a short period of time.

2/ Available only to Hawaii residents.

3/ Lowest of three levels of kamaaina fares.

Source: Hawaiian Airlines, records.

Table 18.46-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: JULY 2-8, 1998

[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 | 986 | 1/ 1,229 | 986 |
| Coach (unrestricted) | 522 | 1/ 522 | 522 |
| United Airlines, round-trip: | | | |
| First class | 1,975 | 2,458 | 2,626 |
| Coach (unrestricted) | 878 | 1,044 | 1,020 |
| Major carriers, lowest round-trip: 2/ | | | |
| United Airlines | 497 | 494 | 447 |
| Lowest carrier | 497 | 494 | 447 |
| Highest carrier | 497 | 494 | 680 |

1/ For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1997, see *Data Book 1997*, table 7.29. 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: *Honolulu Star-Bulletin*, July 3, 1998, p. D-1; United Airlines, records.

Table 18.47-- STATE COMMERCIAL HARBORS: 1997

| Island and harbor | Harbor entrance depth (feet) | Harbor basin | | | Piers (linear feet) | Storage area (1,000 square feet) | |
|----------------------|------------------------------|--------------|---------------|--------------|---------------------|----------------------------------|-------|
| | | Depth (feet) | Length (feet) | Width (feet) | | Shedded | Open |
| Hawaii: | | | | | | | |
| Hilo | 35 | 35 | 2,300 | 1,400 | 2,787 | 122 | 566 |
| Kawaihae | 40 | 35 | 1,500 | 1,450 | 1,562 | 23 | 427 |
| Maui: | | | | | | | |
| Kahului | 35 | 35 | 2,400 | 2,050 | 3,019 | 86 | 888 |
| Molokai: | | | | | | | |
| Kaunakakai | 23 | 23 | 1,500 | 600 | 691 | 7.4 | 129 |
| Oahu: | | | | | | | |
| Honolulu: 1/ Main | } 45 | 40 | { 3,300 | 1,520 | } 29,308 | 1,380 | 8,460 |
| Kapalama | | | { 3,400 | 1,000 | | | |
| Barbers Point | 42 | 38 | 2,100 | 1,800 | 1,860 | - | 1,647 |
| Kauai: | | | | | | | |
| Nawiliwili | 40 | 35 | 1,950 | 1,540 | 2,068 | 70 | 1,379 |
| Port Allen | 35 | 35 | 1,500 | 1,200 | 1,200 | 35 | 32 |

1/ The piers were 28,631 linear feet in 1996. All other figures in this table are identical in 1996 and 1997.
 Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.48-- HARBOR DEPTHS: 1996

[In feet]

| Harbor | Controlling depth | | Project depth | |
|---------------|-------------------|-------|------------------|-------|
| | Entrance channel | Basin | Entrance channel | Basin |
| Hilo | ... | 34 | ... | 35 |
| Kawaihae | 42 | 36 | 40 | 35 |
| Kahului | ... | 34 | ... | 35 |
| Honolulu | 45 | 40 | 45 | 40 |
| Barbers Point | 42 | 37 | 42 | 38 |
| Nawiliwili | 41 | 34 | 40 | 35 |

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-56.

**Table 18.49-- SMALL CRAFT MOORING FACILITIES CAPACITY,
BY ISLANDS: DECEMBER 31, 1994**

| Island | State-operated 1/ | | | | Non-State | |
|-------------|--------------------|--------|---------------|--------|-----------|------------------|
| | Catwalks and piers | | Other moorage | | Slips | Other moorage 2/ |
| | Total | Vacant | Total | Vacant | | |
| State total | 1,740 | 113 | 481 | 40 | 2,748 | 1,747 |
| Hawaii | 251 | 2 | 121 | 2 | - | 375 |
| Maui | 46 | - | 144 | - | - | 50 |
| Lanai | 28 | 3 | 5 | - | - | 10 |
| Molokai | 2 | - | 27 | 2 | - | 50 |
| Oahu | 1,331 | 100 | 154 | 22 | 2,748 | 1,211 |
| Kauai | 82 | 74 | 30 | 8 | - | 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.

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

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

**Table 18.50-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1997**

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

| Island | Number of aids to navigation | | | | Lighthouses | Greatest nominal range (naut. miles) | Highest above-- | |
|-----------|------------------------------|---------|----------|------------------|-------------|--------------------------------------|-----------------|--|
| | By control | | | Sea level (feet) | | | Ground (feet) | |
| | Total | Federal | Other 1/ | | | | | |
| Total | 558 | 292 | 266 | 20 | 2/ 25 | 3/ 913 | 4/ 138 | |
| Hawaii | 78 | 50 | 28 | 8 | 24 | 156 | 115 | |
| Maui | 53 | 23 | 30 | 2 | 24 | 170 | 48 | |
| Molokini | 1 | 1 | - | - | 7 | 182 | 30 | |
| Kahoolawe | 3 | 1 | 2 | - | 7 | 120 | 20 | |
| Lanai | 14 | 8 | 6 | 1 | 8 | 91 | 13 | |
| Molokai | 17 | 10 | 7 | 5 | 25 | 213 | 138 | |
| Oahu | 325 | 154 | 171 | 4 | 25 | 913 | 71 | |
| Kauai | 47 | 25 | 22 | - | 25 | 174 | 80 | |
| Niihau | - | - | - | - | - | - | - | |
| Lehua | 1 | 1 | - | - | 7 | 704 | 10 | |
| Midway | 19 | 19 | - | - | 4 | 43 | 38 | |
| At sea | 78 | 10 | 68 | - | - | - | - | |

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

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

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, May 11, 1998.

**Table 18.51-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1995**

| Subject | Number | Subject | Number |
|--------------------------|--------|---------------------------|--------|
| Certificates outstanding | 14,470 | Type of vessel: | |
| Length: | | Cabin motorboat | 2,661 |
| Under 16 feet | 5,623 | Open motorboat | 5,954 |
| 16 to less than 26 feet | 7,202 | Runabout | 3,088 |
| 26 to less than 40 feet | 1,431 | Sail/inboard | 615 |
| 40 to 65 feet | 198 | Sail/outboard | 590 |
| Over 65 feet | 16 | Sail only | 698 |
| Median (feet) | (NA) | Motor vessel over 65 feet | 16 |
| Hull material: | | Other | 848 |
| Wood | 854 | Uses: | |
| Fiberglass | 11,813 | Pleasure | 12,963 |
| Metal | 533 | Commercial fishing | 554 |
| Inflatable | 1,051 | Charter fishing | 22 |
| Other | 219 | Commercial passenger | 251 |
| Propulsion: | | Other commercial | 84 |
| Inboard | 916 | Livery | 219 |
| Outboard | 8,473 | Dealer or manufacturer | 35 |
| Inboard/outboard | 2,139 | Youth group | 60 |
| Sail/inboard | 615 | Government | 242 |
| Sail/outboard | 590 | Other | 40 |
| Sail only | 698 | Island kept: | |
| Manual | 191 | Hawaii | 2,133 |
| Other | 848 | Kauai | 1,513 |
| Type of storage: | | Lanai | 59 |
| On water | 3,211 | Maui | 1,405 |
| On land | 11,259 | Molokai | 155 |
| | | Oahu | 9,205 |

NA Not available.

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

**Table 18.52-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1996**

| Subject | Number | Subject | Number |
|--------------------------|--------|---------------------------|--------|
| Certificates outstanding | 15,177 | Type of vessel: | |
| Length: | | Cabin motorboat | 2,963 |
| Under 16 feet | 5,767 | Open motorboat | 6,292 |
| 16 to less than 26 feet | 7,637 | Runabout | 3,070 |
| 26 to less than 40 feet | 1,565 | Sail/inboard | 670 |
| 40 to 65 feet | 194 | Sail/outboard | 623 |
| Over 65 feet | 14 | Sail only | 724 |
| Median (feet) | (NA) | Motor vessel over 65 feet | 7 |
| Hull material: | | Other | 828 |
| Wood | 841 | Uses: | |
| Fiberglass | 12,489 | Pleasure | 13,643 |
| Metal | 562 | Commercial fishing | 476 |
| Inflatable | 1,045 | Charter fishing | 21 |
| Other | 240 | Commercial passenger | 315 |
| Propulsion: | | Other commercial | 90 |
| Inboard | 961 | Livery | 230 |
| Outboard | 8,892 | Dealer or manufacturer | 26 |
| Inboard/outboard | 2,310 | Youth group | 71 |
| Sail/inboard | 670 | Government | 265 |
| Sail/outboard | 623 | Other | 40 |
| Sail only | 724 | Island kept: | |
| Manual | 183 | Hawaii | 2,332 |
| Other | 814 | Kauai | 1,585 |
| Type of storage: | | Lanai | 83 |
| On water | 3,944 | Maui | 1,536 |
| On land | 11,233 | Molokai | 197 |
| | | Oahu | 9,444 |

NA Not available.

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: 1990 TO 1995**

| Category | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|------------------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| Documented 1/ Numbered 2/ | 1,700 14,081 | 1,775 13,592 | (NA) 13,973 | (NA) 13,832 | (NA) 13,839 | (NA) 14,470 |

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

| Year | Number of accidents | | Number of persons | | Number of vessels involved | Amount of damage (\$1,000) |
|------|---------------------|-------|-------------------|----------------------|----------------------------|----------------------------|
| | Total | Fatal | Killed | Injured, not fatally | | |
| 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: 1995 AND 1996

[Excludes domestic fishing craft]

| Harbor | 1995 | | | 1996 | | |
|---------------|-------|------------------|------------------|-------|------------------|------------------|
| | Total | 18 feet and less | 19 feet and more | Total | 18 feet and less | 19 feet and more |
| Hilo | 835 | 798 | 37 | 897 | 844 | 53 |
| Kawaihae | 705 | 703 | 2 | 734 | 726 | 8 |
| Kahului | 1,238 | 1,211 | 27 | 1,333 | 1280 | 53 |
| Kaunakakai | 1,802 | 1,802 | - | 1,282 | 2/ 1282 | - |
| Kalaupapa | 31 | 31 | - | 5 | 5 | - |
| Honolulu | 7,999 | 6,215 | 1,784 | 7,972 | 6,259 | 1,713 |
| Barbers Point | 1,227 | 1,096 | 131 | 1,160 | 1,035 | 125 |
| Nawiliwili | 620 | 593 | 27 | 664 | 630 | 34 |
| Port Allen | 299 | 1/ 299 | - | 379 | 3/ 379 | - |

1/ 29 feet and less.

2/ 21 feet and less.

3/ 23 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 1997**

[Years ended June 30]

| Year | Overseas vessels | | Interisland vessels | |
|------|------------------|---------------|---------------------|---------------|
| | 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 |
| 1995 | 1,790 | 6,064,842 | 2,996 | 2,096,597 |
| 1996 | 1,650 | 6,150,398 | 2,831 | 2,349,354 |
| 1997 | 1,604 | 6,244,158 | 2,679 | 2,312,266 |

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

**Table 18.57-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1992 TO 1997**

[Fiscal years ended June 30]

| Type of passenger | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Overseas: | | | | | | |
| In | 15,730 | 14,712 | 14,502 | 17,517 | 14,851 | 18,262 |
| Out | 15,766 | 14,942 | 14,502 | 17,957 | 16,128 | 17,527 |
| Interisland: | | | | | | |
| In | 72,493 | 61,563 | 68,229 | 68,699 | 44,982 | 46,825 |
| Out | 72,493 | 61,563 | 68,229 | 68,849 | 45,159 | 40,558 |

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

**Table 18.58-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1986 TO 1996**

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

| Year | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|-------------|-------------|-----------------|----------------|-----------------|----------------------|-------------------|
| 1986 | 1,199 | 592 | 1,627 | 8,604 | 5,629 | 745 |
| 1987 | 1,366 | 871 | 2,035 | 9,737 | 7,135 | 916 |
| 1988 | 1,456 | 655 | 2,157 | 10,655 | 7,511 | 876 |
| 1989 | 1,569 | 732 | 2,279 | 10,360 | 7,374 | 1,038 |
| 1990 | 1,690 | 887 | 2,409 | 11,341 | 8,034 | 959 |
| 1991 | 1,556 | 745 | 2,434 | 11,208 | 9,002 | 1,005 |
| 1992 | 1,588 | 790 | 2,357 | 11,522 | 8,824 | 1,143 |
| 1993 | 1,469 | 655 | 2,216 | 10,595 | 9,357 | 1,283 |
| 1994 | 1,455 | 736 | 2,368 | 11,672 | 9,022 | 1,151 |
| 1995 | 1,354 | 873 | 2,586 | 11,545 | 8,233 | 1,130 |
| 1996 | 1,442 | 969 | 2,828 | 12,010 | 8,745 | 1,203 |

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 1996, Part 4, pp. 49-57.

Table 18.59-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1996

[In thousands of short tons]

| Category | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|---------------------------|-------|----------|---------|----------|---------------|------------|
| All freight traffic | 1,442 | 969 | 2,828 | 12,010 | 8,745 | 1,203 |
| Foreign, except Canadian: | | | | | | |
| Imports | 84 | - | 67 | 1,423 | 4,545 | - |
| Exports | 1 | - | - | 189 | 759 | - |
| Canadian: | | | | | | |
| Imports | - | - | 9 | 48 | - | 7 |
| Exports | - | - | - | - | - | - |
| Domestic, total | 1,357 | 969 | 2,752 | 10,350 | 3,441 | 1,197 |
| Coastwise: 1/ | | | | | | |
| Receipts | 951 | 732 | 1,686 | 5,632 | 2,731 | 599 |
| Shipments | 405 | 237 | 1,065 | 4,612 | 702 | 598 |
| Internal, total 2/ | - | - | - | 107 | 8 | - |

1/ Includes both interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1996**

[In thousands of short tons]

| Port and commodity 1/ | Total | Receipts 2/ | Shipments 3/ |
|---|--------------|--------------------|---------------------|
| Hilo | 1,442 | 1,035 | 406 |
| Fabricated non-ferrous metal products | 532 | 281 | 250 |
| Kawaihae | 969 | 732 | 237 |
| Fabricated non-ferrous metal products | 577 | 442 | 135 |
| Kahului | 2,828 | 1,762 | 1,065 |
| Petroleum and petroleum products | 414 | 414 | - |
| Fabricated non-ferrous metal products | 1,039 | 569 | 469 |
| Food and farm products | 553 | 151 | 402 |
| Manufactured equipment, machinery, products | 450 | 298 | 152 |
| Kaunakakai | 205 | (NA) | (NA) |
| Honolulu | 12,010 | 7,103 | 4,908 |
| Petroleum and petroleum products | 2,555 | 1,926 | 629 |
| Fabricated non-ferrous metal products | 2,971 | 1,318 | 1,652 |
| Food and farm products | 2,506 | 1,629 | 878 |
| Vehicles and parts | 894 | 398 | 496 |
| Barbers Point | 8,745 | 7,276 | 1,469 |
| Petroleum and petroleum products | 7,858 | 6,556 | 1,303 |
| Nawiliwili | 1,203 | 606 | 598 |
| Fabricated non-ferrous metal products | 567 | 280 | 287 |
| Food and farm products | 300 | 73 | 227 |

NA Not available.

1/ Shown separately for commodities of 300,000 or more tons.

2/ Includes foreign imports and coastwise receipts.

3/ 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 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.61-- TRANSPORTATION, COMMUNICATION, AND UTILITY INDUSTRIES,
WITH AND WITHOUT PAYROLL: 1992**

| SIC code | Kind of business | Number of establishments | | | Revenue (million dollars) | | |
|----------|---|--------------------------|--------------|-----------------|---------------------------|--------------|-----------------|
| | | Total | With payroll | Without payroll | Total | With payroll | Without payroll |
| 41 | Passenger transportation | 1,534 | 117 | 1,417 | 205 | 179 | 26 |
| 42 | Motor freight transportation, 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 18.62-- 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.