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## 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's 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, the U.S. Census Bureau, 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: 2009*, Section 23.

**Table 18.01-- HIGHWAY DISTANCES: 2008**

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	28.4	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	8.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	123.0		
Hilo-Kailua, via Saddle Rd.	84.0	OAHU 1/	
Hilo-Kailua, via Hamakua	98.1		
Hilo-Waimea, via Saddle Rd.	60.9	Honolulu-Ala Moana Center	1.5
Hilo-Waimea, via Hamakua	55.7	Honolulu-UH, via King Street	3.2
Hilo-Upolu Pt., via Hamakua	89.6	Honolulu-Waikiki	3.2
Hilo-Kawaihae, via Hamakua	67.5	Honolulu-Waimanalo, via Koko Head	21.2
Waimea-Hawi	20.2	Honolulu-Waimanalo, via Nuuanu	16.0
Waimea-Kawaihae	10.0	Honolulu-Kailua, via Nuuanu	13.0
Kawaihae-Hawi	17.3	Honolulu-Kaneohe, via Kalihi	12.0
Kawaihae-Kailua	34.3	Honolulu-Kahuku, via Kahaluu	38.0
Kailua-Keahole Airport	7.3	Honolulu-Kahuku, via Wahiawa	48.0
Kailua-Keauhou	5.7	Honolulu-Kaena Pt., via Wahiawa	43.4
		Honolulu-Kaena Pt., via Waianae	43.7
MAUI		Honolulu-Wahiawa	23.0
		Honolulu-Pearl Harbor Shipyard	8.0
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	6.5
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.2	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	32.6
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.5
Wailuku-Makena	17.9	Circle island, via Nuuanu Pali	81.6
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu	20.9	KAUAI	
Kahului-Kiheii	8.2	Lihue-Haena	38.2
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
		Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	3.1	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	7.5	Poipu-Princeville	40.7

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

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

**Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: DECEMBER 31, 2006 TO 2008**

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
2006				
State total	4,342.06	88.53	4,081.12	172.41
Hawaii	1,474.19	-	1,414.89	59.30
Maui	635.21	-	578.51	56.70
Lanai	47.48	-	33.48	14.00
Molokai	135.77	-	123.77	12.00
Oahu	1,632.43	88.53	1,535.98	7.92
Kauai	416.98	-	394.49	22.49
Niihau	-	-	-	-
2007				
State total	4,352.39	88.53	4,091.45	172.41
Hawaii	1,473.36	-	1,414.06	59.30
Maui	635.23	-	578.53	56.70
Lanai	47.48	-	33.48	14.00
Molokai	135.77	-	123.77	12.00
Oahu	1,643.66	88.53	1,547.21	7.92
Kauai	416.89	-	394.40	22.49
Niihau	-	-	-	-
2008				
State total	4,362.68	88.53	4,101.74	172.41
Hawaii	1,478.44	-	1,419.14	59.30
Maui	635.26	-	578.56	56.70
Lanai	47.48	-	33.48	14.00
Molokai	135.77	-	123.77	12.00
Oahu	1,649.21	88.53	1,552.76	7.92
Kauai	416.52	-	394.03	22.49
Niihau	-	-	-	-

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

**Table 18.03-- HIGHWAY BRIDGES, BY ISLAND: DECEMBER 31, 2008**

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	752	Airport Viaduct	14,890	Nanue	208
Hawaii	135	Hakalau	775	Nanue	208
Maui	98	Honokahua	600	Uaoa	79
Lanai	-	None	-	None	-
Molokai	19	Manawainui	360	Manawainui	50
Oahu	445	Airport Viaduct	14,890	Kipapa	156
Kauai	55	Hanamaulu	1,150	Wahiawa, Koloa	90

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

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

**Table 18.04-- CONDITION OF BRIDGES: 2003 TO 2008**

Area	Number of bridges	Deficient and obsolete					
		Total		Structurally deficient 1/		Functionally obsolete 2/	
		Number	Percent	Number	Percent	Number	Percent
2003							
U.S.	592,246	160,819	27.2	79,811	13.5	81,008	13.7
Hawaii	1,097	512	46.7	155	14.1	357	32.5
2004							
U.S.	593,885	158,318	26.7	77,758	13.1	80,560	13.6
Hawaii	1,099	513	46.7	156	14.2	357	32.5
2005							
U.S.	594,616	156,177	26.3	75,871	12.8	80,306	13.5
Hawaii	1,104	514	46.6	160	14.5	354	32.1
2006							
U.S.	596,842	153,990	25.8	73,764	12.4	80,226	13.4
Hawaii	1,110	513	46.2	156	14.1	357	32.2
2007							
U.S.	599,766	152,316	25.4	72,524	12.1	79,792	13.3
Hawaii	1,115	500	44.8	142	12.7	358	32.1
2008							
U.S.	601,411	151,391	25.2	71,469	11.9	79,922	13.3
Hawaii	1,120	487	43.5	136	12.1	351	31.3

1/ Bridges are structurally deficient if they have been restricted to light vehicles, require immediate rehabilitation to remain open, or are closed.

2/ Bridges are functionally obsolete if they have deck geometry, load carrying capacity, clearance or approach roadway alignment that no longer meet the criteria for the system of which the bridge is a part.

Source: U.S. Department of Transportation, Federal Highway Administration, Structures, Deficient Bridges by State and Highway System <<http://www.fhwa.dot.gov/bridge/deficient.cfm>> accessed May 28, 2009; calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2008**

Island and name of tunnel	Length (feet)
Oahu	
Pali, Honolulu side	1,000
to Honolulu	1,080
from Honolulu	
Pali, Kailua side	500
to Honolulu	497
from Honolulu	
Wilson	2,775
to Honolulu	2,813
from Honolulu	
H-3	4,890
to Honolulu	5,165
from Honolulu	
H-3, Hospital Rock	353
to Honolulu	354
from Honolulu	
Middle Street	393
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:  
1998 TO 2008**

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

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1998	915,753	893,427	713,732	61	3,084
1999	929,474	906,935	725,142	59	3,028
2000	964,738	941,242	754,840	56	2,902
2001	986,555	967,146	775,737	53	2,847
2002	1,013,594	987,598	792,482	61	2,815
2003	1,057,625	1,030,845	830,672	47	2,588
2004	1,100,646	1,072,211	867,120	44	2,510
2005	1,149,403	1,119,838	906,799	47	2,472
2006	1,159,256	1,127,467	907,659	46	2,349
2007	1,167,240	1,134,542	911,607	47	2,260
2008	1,160,643	1,127,567	903,518	57	2,213
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor-scooters 2/	Trailers and semi-trailers
1998	158,977	423	214	16,936	22,326
1999	161,067	407	224	17,008	22,539
2000	165,104	409	270	17,661	23,496
2001	168,414	495	314	19,286	19,409
2002	160,941	513	359	20,427	25,996
2003	174,641	510	368	22,019	26,780
2004	178,596	547	449	22,945	28,435
2005	184,513	603	530	24,874	29,565
2006	189,878	670	682	26,183	31,789
2007	192,175	696	779	26,978	32,698
2008	191,459	799	1,074	28,447	33,076

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 COUNTY:  
1995 TO 2008**

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

<b>Year</b>	<b>State total</b>	<b>City and County of Honolulu</b>	<b>County of Hawaii</b>	<b>County of Kauai</b>	<b>County of Maui</b>
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
1998	893,427	594,096	121,959	56,554	120,818
1999	906,935	597,610	126,039	57,882	125,404
2000	941,242	614,985	132,305	61,316	132,636
2001	967,146	631,232	136,786	62,655	136,473
2002	987,598	643,810	142,150	63,580	138,058
2003	1,030,845	667,565	150,983	67,312	144,985
2004	1,072,211	688,163	159,627	71,517	152,904
2005	1,119,838	714,604	169,396	75,561	160,277
2006	1,127,467	719,606	173,786	74,734	159,341
2007	1,134,542	722,486	176,386	75,594	160,076
2008	1,127,567	719,640	175,166	74,344	158,417

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

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,  
BY COUNTY: 2008**

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

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	1,160,643	735,509	184,202	77,989	162,943
Motor vehicles	1,127,567	719,640	175,166	74,344	158,417
Passenger vehicles 1/	903,518	595,825	133,722	52,722	121,249
Ambulances	57	36	5	1	15
Buses	2,213	1,735	268	11	199
Trucks 1/	191,459	101,690	36,933	19,826	33,010
Truck tractors	799	511	186	13	89
Truck cranes	1,074	879	105	6	84
Motorcycles, motorscooters 2/	28,447	18,964	3,947	1,765	3,771
Trailers and semi-trailers	33,076	15,869	9,036	3,645	4,526

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,  
BY COUNTY: 2008**

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

<b>Taxation status</b>	<b>State total</b>	<b>City and County of Honolulu</b>	<b>County of Hawaii</b>	<b>County of Kauai</b>	<b>County of Maui</b>
Total registered	1,099,120	700,676	171,219	72,579	154,646
Taxable vehicles	1,023,356	629,116	169,389	71,745	153,106
Exempt vehicles	75,764	71,560	1,830	834	1,540
Federal government	407	396	8	-	3
State government	6,099	6,093	3	1	2
County government	7,179	4,420	959	559	1,241
Fire department	278	72	124	48	34
Police department	1,730	1,330	395	-	5
Consulates	57	56	1	-	-
Disabled veterans	221	54	140	23	4
Military non-resident	58,144	57,874	53	146	71
Farm	198	38	40	3	117
Horseless carriage	66	54	7	4	1
Electric vehicles	179	114	26	8	31
National Guard	1,206	1,059	74	42	31

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

**Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,  
BY COUNTY: 2000**

<b>Vehicles available</b>	<b>State total</b>	<b>Hawaii</b>	<b>Honolulu</b>	<b>Kalawao</b>	<b>Kauai</b>	<b>Maui</b>
Occupied units	403,240	52,985	286,450	115	20,183	43,507
None	44,280	3,655	36,614	13	1,221	2,777
1	149,369	19,499	107,393	63	6,770	15,644
2	143,919	21,017	97,752	39	8,229	16,882
3 or more	65,672	8,814	44,691	-	3,963	8,204

Source: U.S. Census Bureau, Census 2000, Table DP-4, Profile of Selected Housing Characteristics: 2000.

**Table 18.11-- TRUCK CHARACTERISTICS: 1987 TO 2002**

Category (100 percent)	Selected characteristic	Percent of category			
		1987	1992	1997	2002
Total trucks (1,000)		160.8	280.3	294.2	351.4
Business 1/ Body type	Personal transportation Pickup, mini-van, other light van, and sport utility	60.5	61.7	70.1	74.0
Vehicle size	Light	91.2	93.8	94.9	95.9
Annual miles	Less than 10,000 2/	94.6	95.6	95.9	96.9
Model year	Over 4 years old	57.0	50.0	44.3	51.1
Vehicle acquisition	New	62.1	66.8	74.1	68.0
Truck type	Single-unit, 2 axles 3/	49.6	54.3	48.3	50.4
Range of operation	50 miles or less	96.4	96.6	97.7	98.1
Fuel type	Gasoline	80.2	79.3	81.2	70.5
		94.6	94.6	95.1	93.7

1/ Comparability of estimates may vary across survey years due to changes in category definitions.

2/ Includes vehicles not in use.

3/ Excludes truck-tractors not in use.

Source: U.S. Bureau of the Census, *Truck Inventory and Use Survey, 1992 Census of Transportation*, TC92-T-12 (December 1994), table 2 <<http://www.census.gov/prod/1/trans/92trkinv/tct12.pdf>>; U.S. Census Bureau, *2002 Economic Census, Vehicle Inventory and Use Survey, Geographic Area Series, Hawaii*, EC02TV-HI (October 2004), tables 1a and 2a <<http://www.census.gov/svsd/www/02vehinv.html>> accessed May 12, 2005.

**Table 18.12-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)  
REGISTRATIONS: 1989 TO 2008**

[Excludes U-drive/Fleet sales]

Year	Number	Year	Number	Year	Number
1989	57,456	1996	41,480	2003	62,712
1990	54,544	1997	42,487	2004	70,457
1991	47,783	1998	40,673	2005	70,268
1992	44,865	1999	45,054	2006	67,224
1993	45,249	2000	51,500	2007	57,526
1994	44,175	2001	51,388	2008	42,804
1995	41,083	2002	53,314		

Source: Hawaii Automobile Dealers Association, *HawaiiDealer 2009 First Quarter*, and records.

**Table 18.13-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)  
REGISTRATIONS, BY NAMEPLATE: 2006 TO 2008**

[Excludes U-drive/Fleet sales]

<b>Nameplate</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Total	67,224	57,526	42,804
Toyota/Scion	17,919	15,673	12,201
Honda	7,843	7,688	6,115
Nissan	7,812	7,043	4,956
Ford	6,122	4,512	3,135
Chevrolet	3,625	2,802	2,028
Dodge	3,029	2,041	1,347
Lexus	1,983	1,768	1,340
Mazda	2,721	1,922	1,332
BMW	1,261	1,364	1,220
Mercedes	1,450	1,172	979
Hyundai	1,273	1,155	748
Kia	1,267	1,187	734
Jeep	896	845	641
Volkswagen	1,024	918	604
Acura	908	784	604
GMC	875	784	577
Saturn	699	700	450
Chrysler	768	490	330
All others	5,749	4,678	3,463

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2007 Edition 1, 2008 Second Quarter and 2009 First Quarter.



**Table 18.14-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)  
REGISTRATIONS, BY PLACE OF MANUFACTURE: 2006 TO 2008**

[Excludes U-drive/Fleet sales]

<b>Type and place of manufacture</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Total	67,224	57,526	42,804
Car	29,603	24,650	20,180
Light truck	37,621	32,876	22,624
Chrysler, Ford, General Motors	17,637	13,416	9,320
Japanese	41,415	36,602	27,742
European	5,632	5,166	4,260
Korean	2,540	2,342	1,482

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2007 Edition 1, 2008 Second Quarter and 2009 First Quarter.

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTY:  
1991 TO 2008**

[As of December 31]

<b>Year</b>	<b>State total</b>	<b>City and County of Honolulu</b>	<b>County of Hawaii</b>	<b>County of Kauai</b>	<b>County of Maui</b>
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
1997	738,865	517,904	96,665	42,079	82,217
1998	746,329	520,734	98,252	42,363	84,980
1999	752,693	521,671	100,331	43,141	87,550
2000	769,383	529,890	104,058	44,471	90,964
2001	787,820	542,244	106,557	45,424	93,595
2002	814,668	560,222	110,561	46,840	97,045
2003	834,188	572,665	113,760	48,047	99,716
2004	843,876	577,507	116,486	48,967	100,916
2005	856,163	584,492	119,741	49,880	102,050
2006	867,003	590,975	122,087	50,539	103,402
2007	882,466	600,264	125,063	51,504	105,635
2008	895,941	607,747	127,456	52,479	108,259

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

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE  
AND SEX: 2007 AND 2008**

[As of December 31]

Years of age	Both sexes		Male		Female	
	2007	2008	2007	2008	2007	2008
Total	882,466	895,941	462,852	469,589	419,614	426,352
15 to 19	29,435	29,171	15,760	15,728	13,675	13,443
20 to 24	73,253	72,687	38,869	38,579	34,384	34,108
25 to 29	84,740	84,979	44,554	44,430	40,186	40,549
30 to 34	78,335	79,404	40,477	41,158	37,858	38,246
35 to 39	83,121	82,758	43,000	42,645	40,121	40,113
40 to 44	85,266	84,108	43,923	43,277	41,343	40,831
45 to 49	89,589	89,986	46,549	46,813	43,040	43,173
50 to 54	89,002	89,655	45,869	46,231	43,133	43,424
55 to 59	82,298	84,461	43,287	44,319	39,011	40,142
60 to 64	66,114	70,398	35,286	37,467	30,828	32,931
65 to 69	42,694	47,228	23,074	25,516	19,620	21,712
70 to 74	30,383	32,030	16,157	17,130	14,226	14,900
75 to 79	24,076	23,782	12,362	12,244	11,714	11,538
80 to 84	16,153	16,653	8,772	8,806	7,381	7,847
85 to 89	6,615	7,103	3,996	4,236	2,619	2,867
90 to 94	1,287	1,426	838	925	449	501
95 to 99	105	112	79	85	26	27

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

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1990 TO 2008, AND BY COUNTY, 2007 AND 2008**

Year and county	Highway fuel consumption 1/		Annual vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1990	395,185	444	3/ 8,065.4	9,071
1991	406,819	453	3/ 8,142.2	9,075
1992	405,963	457	3/ 8,065.5	9,070
1993	409,940	468	3/ 7,945.3	9,063
1994	428,558	490	3/ 7,925.2	9,056
1995	422,884	482	3/ 7,944.1	9,051
1996	426,370	482	3/ 8,005.9	9,050
1997	421,499	477	3/ 8,003.0	9,050
1998	422,928	473	3/ 8,090.2	9,055
1999	417,374	460	3/ 8,215.2	9,058
2000	428,425	455	3/ 8,525.7	9,058
2001	445,558	461	3/ 8,754.3	9,052
2002	477,518	484	3/ 8,937.3	9,050
2003	483,232	469	3/ 9,325.0	9,046
2004	498,816	463	3/ 9,734.6	9,042
2005	505,418	459	4/ 10,129.1	9,191
2006	531,505	5/ 471	4/ 10,226.3	5/ 9,070
2007	541,956	478	4/ 10,394.4	9,162
2008	540,910	480	4/ 10,215.1	9,059
COUNTY: 2007				
Honolulu	313,917	434	6,450.8	8,929
Hawaii	105,421	598	1,680.7	9,528
Kauai	47,402	627	818.3	10,825
Maui	75,216	470	1,444.6	9,024
COUNTY: 2008				
Honolulu	313,702	436	6,366.5	8,847
Hawaii	114,211	652	1,641.5	9,371
Kauai	45,095	607	783.1	10,534
Maui	67,902	429	1,424.0	8,989

Continued on next page.

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1990 TO 2008, AND BY COUNTY, 2007 AND 2008 -- Con.**

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.

3/ Estimated from average annual vehicle miles of travel (AVMT) per vehicle.

4/ Data from Highway Performance Monitoring System (HPMS) Database.

5/ Revised from previous *Data Book*.

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

**Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2006 TO 2008**

Site	Milepoint	2006	2007	2008
Oahu				
H-1 at Halawa Stream bridge	13.54	1/ 128,426	1/ 128,363	1/ 138,150
H-1 west of King St tunnel	18.77	1/ 61,382	2/ 61,608	1/ 57,000
H-1 at Kalihi interchange	19.27	(NA)	1/ 160,017	1/ 156,800
H-1 at Kapalama drainage canal bridge	20.24	(NA)	1/ 203,691	1/ 128,100
H-1 at McCully St overpass	23.56	(NA)	1/ 134,267	1/ 124,773
H-1 at Manoa-Palolo drainage canal	24.60	2/ 107,546	1/ 111,271	1/ 107,300
H-2 south of Pineapple Rd overpass	4.02	1/ 93,191	1/ 92,276	1/ 86,447
H-3 west of Kamehaha Hwy interchange	10.37	1/ 26,511	1/ 28,503	1/ 24,900
Moanalua Freeway west of Kahuapaani Steet overpass	0.21	1/ 38,500	1/ 38,885	1/ 29,800
Pali Hwy at tunnels	5.69	2/ 44,950	1/ 44,524	1/ 47,462
Kalaniana'ole Hwy east of Ainakoa Ave	18.32	2/ 85,212	1/ 84,870	1/ 75,500
Kamehameha Hwy 1.6 miles northeast of Johnson Rd	30.59	1/ 11,618	1/ 11,326	1/ 10,900
Farrington Hwy at Makaha bridge #2	12.50	1/ 20,818	2/ 20,480	1/ 19,700
Kamehameha Hwy at Kalauao bridge	20.67	1/ 58,860	1/ 56,106	1/ 53,800
Likelike Hwy at tunnels	5.74	1/ 31,073	(3/)	(3/)
Nimitz Hwy at Kapalama drainage canal bridge	3.66	1/ 61,171	(3/)	(3/)
Hawaii				
Volcano Rd at Glenwood Park	19.66	1/ 6,216	1/ 6,387	1/ 6,000
Mamalahoa Hwy at state Hwys' south Kona baseyard	104.14	1/ 7,114	1/ 7,147	1/ 7,200
Hawaii Belt Rd north of Kalaoa bridge	8.01	1/ 11,553	1/ 11,679	1/ 10,700
Queen Kaahumanu Hwy north of OTEC access Rd	93.74	1/ 22,909	1/ 23,367	1/ 21,700
Keaau-Paho Rd south of waste station Rd	1.83	1/ 26,722	1/ 27,898	1/ 27,100

Continued on next page.

**Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2006 TO 2008 -- Con.**

Site	Milepoint	2006	2007	2008
Maui				
Honoapiilani Hwy south of Kaanapali Parkway	23.58	1/ 40,787	2/ 41,001	1/ 39,100
Hana Hwy near Baldwin Park	6.28	1/ 17,200	1/ 18,105	1/ 17,088
Kauai				
Kuhio Hwy northwest of Kolo Rd and Kalamania Rd	23.56	1/ 13,515	1/ 13,982	1/ 13,684

NA Not available.

1/ Average daily traffic (ADT), the average of 24 hour counts collected a number of days greater than one, but less than a year.

2/ Annual average daily traffic (AADT), the average of 24 hour counts collected every day in the year.

3/ Location no longer used.

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

**Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU  
URBANIZED AREA: 2002 TO 2005**

Subject	2002	2003	2004	2005
Population (1,000)	700	700	700	705
Urban area (square miles)	140	140	140	140
Population density (persons/square mile)	5,000	5,000	5,000	5,036
Peak travelers (1,000)	372	376	378	383
Daily vehicle-miles of travel (1,000)				
Freeway	5,775	5,930	6,000	6,015
Arterial streets	3,155	3,175	3,200	3,250
Cost components				
Value of time (\$/hour)	13.45	13.75	14.10	14.60
Commercial cost (\$/hour)	71.05	72.65	74.60	77.10
Fuel cost (\$/gallon)	1.72	2.03	2.38	2.63
Congested system (percent of lane-miles)	46	46	46	48
Number of daily rush hours 1/	6.4	6.6	6.8	6.8
Annual excess fuel consumed 2/				
Total (1,000 gallons)	4,930	5,466	5,680	6,255
Per peak traveler (gallons)	13	15	15	16
Annual delay (person-hours) 3/				
Total (1,000)	7,252	8,110	8,496	9,342
Per peak traveler 4/	20	22	22	24
Congestion cost 5/				
Total (\$ million)	116	134	145	166
Per peak traveler (\$)	313	355	383	434

1/ Time when system might have congestion.

2/ Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

3/ Travel time above that needed to complete a trip at free-flow speeds (60 mph on freeways and 35 mph on arterials).

4/ Extra time required to travel in the peak period divided by the number of travelers who begin a trip during the peak period (6 to 9 a.m. and 4 to 7 p.m.).

5/ Value of travel delay for 2005 (estimated at \$14.60 per hour of person travel and \$77.10 per hour of truck time) and excess fuel consumption (estimated using state average cost per gallon).

Source: Texas Transportation Institute, *2007 Annual Urban Mobility Report*  
<[http://mobility.tamu.edu/ums/congestion\\_data/west\\_map.stm](http://mobility.tamu.edu/ums/congestion_data/west_map.stm)> accessed May 20, 2008.



**Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1995 TO 2008, AND BY COUNTY, 2006 TO 2008**

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1995	16,581	118	13,088	127
1996	13,285	132	11,729	145
1997	12,445	117	11,190	131
1998	11,543	113	10,303	120
1999	10,632	90	9,604	98
2000	11,111	116	9,887	133
2001	10,870	133	8,641	141
2002	10,663	116	8,950	120
2003	11,116	117	8,928	135
2004	11,007	128	8,827	142
2005	10,591	129	8,548	140
2006	9,434	144	7,748	157
2007	2/ 8,740	123	2/ 7,091	134
2008	3/ 3,788	102	3/ 3,002	107
COUNTY: 2006				
Honolulu	6,371	81	4,909	90
Hawaii	1,586	34	1,357	34
Kauai	553	10	442	14
Maui	924	19	1,040	19
COUNTY: 2007				
Honolulu	2/ 5,831	61	2/ 4,371	67
Hawaii	2/ 1,352	34	2/ 1,195	38
Kauai	2/ 604	9	2/ 496	9
Maui	2/ 953	19	2/ 1,029	20
COUNTY: 2008				
Honolulu	3/ 3,005	41	3/ 2,312	43
Hawaii	3/ 263	29	3/ 232	29
Kauai	3/ 494	9	3/ 434	11
Maui	3/ 26	23	3/ 24	24

1/ Effective 1991, includes only accidents with damage of \$1,000 or more or causing injury or death.  
 Effective June 20, 1995, includes only accidents with damage of \$3,000 or more or causing injury or death.

2/ Revised from previous *Data Book*.

3/ Preliminary, as of March 11, 2009.

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

**Table 18.21-- DRIVERS INVOLVED IN FATAL CRASHES AND BLOOD ALCOHOL CONCENTRATION (BAC) OF THE DRIVER: 2005 TO 2007**

[Blood alcohol concentration (BAC) is measured in grams per deciliter (g/dl), one decileter = 1/10 liter. Totals may not equal sum of county totals due to independent rounding. Also, percentages as displayed are calculated from unrounded number of estimated fatalities and may not equal those calculated from the rounded numbers (especially for counties with very few fatalities)]

County	All drivers	No alcohol BAC = 0.00		Any alcohol BAC = 0.01 +		BAC = 0.01 - 0.07		BAC = 0.08 +	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
2005, State total	176	114	65	62	35	12	7	50	28
Hawaii	46	28	61	18	39	5	11	13	27
Honolulu	97	68	70	29	30	5	5	24	25
Kauai	11	8	71	3	29	-	-	3	29
Maui	22	10	45	12	55	2	9	10	45
2006, State total	203	131	65	72	35	14	7	58	28
Hawaii	50	30	61	20	39	2	5	17	34
Honolulu	107	73	68	34	32	5	5	29	27
Kauai	18	12	64	7	36	1	7	5	29
Maui	28	16	59	12	41	5	18	7	23
2007, State total	171	109	64	62	36	20	12	42	25
Hawaii	44	19	44	25	56	8	19	16	37
Honolulu	79	57	73	22	27	4	5	18	23
Kauai	14	8	54	6	46	5	36	1	9
Maui	34	25	72	10	28	3	8	7	20

Source: U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA), National Center for Statistics & Analysis (NCSA), Fatality Analysis Reporting System (FARS), FARS Encyclopedia: Reports, FARS Encyclopedia: States - Alcohol <<http://www-fars.nhtsa.dot.gov/States/StatesAlcohol.aspx>> accessed January 15, 2009.

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLAND:  
2006 TO 2008**

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	2006	2007	2008	2006	2007	2008
Hawaii	165	219	200	1,357	1,662	4,819
Maui	3/ 236	3/ 242	3/ 278	3,540	4,124	3,614
Lanai	(NA)	(NA)	(NA)	30	12	23
Molokai	(NA)	(NA)	(NA)	19	11	17
Oahu	1,560	1,484	1,494	229,135	254,142	281,527
Kauai 4/	-	-	-	278	405	614

NA Not available.

1/ Taxicabs are licensed annually, except in Kauai County where registration is not required.

Maui data are for the County of Maui. Oahu data are for fiscal year July 1 to June 30.

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/ Total for Maui, Lanai and Molokai; data are not available separately.

4/ As of January 1, 1999, bicycles are issued a permanent bicycle tag which is good for the life of the bicycle.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism. Data provided by the Department of Finance of the Counties of Hawaii, Maui and Kauai, and the Department of Customer Services of the City & County of Honolulu.

**Table 18.23-- PASSENGER CAR RENTAL AND LEASING  
(NAICS 53211): 1997 AND 2002**

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) System used in earlier Economic Censuses]

Subject	State total	County			
		Hawaii	Honolulu	Kauai	Maui
Number of establishments:					
1997	63	11	25	(NA)	19
2002	64	13	19	10	22
Revenue (\$1,000):					
1997	347,624	45,172	154,679	(NA)	104,759
2002	478,241	70,509	208,435	61,100	138,197

NA Not available.

Source: U.S. Census Bureau, *1997 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii*, EC97F53A-HI, (Aug. 1999), tables 1 and 3 <<http://www.census.gov/epcd/www/97EC53.HTM>>; *2002 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii*, EC02-53A-HI, (Dec. 2004), tables 1 and 3 <[http://www.census.gov/econ/census02/guide/02EC\\_HI.HTM](http://www.census.gov/econ/census02/guide/02EC_HI.HTM)> accessed February 25, 2005.

**Table 18.24-- MOTOR CARRIER CHARACTERISTICS, BY COUNTY:  
2006 TO 2008**

[As of September]

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
2006					
State total	1,935	7,622	188,022	6,471	32,488
Hawaii	201	1,162	29,990	1,241	6,322
Maui	295	1,936	47,696	1,038	4,261
Honolulu	1,294	3,853	94,058	3,552	19,552
Kauai	145	671	16,278	640	2,353
2007					
State total	2,193	7,904	192,267	7,566	35,611
Hawaii	241	1,198	30,530	1,741	6,905
Maui	369	2,005	48,746	1,246	4,705
Honolulu	1,423	4,003	96,308	3,907	21,507
Kauai	160	698	16,683	672	2,494
2008					
State total	1,552	6,599	159,272	6,271	31,860
Hawaii	253	1,258	31,450	1,422	5,688
Maui	213	1,157	27,768	936	3,744
Honolulu	1,003	3,822	91,728	3,388	20,328
Kauai	83	362	8,326	525	2,100

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, records.

**Table 18.25-- PUBLIC TRANSIT, FOR OAHU: 1993 TO 2008**

[As of June 30. Service provided by City and County of Honolulu bus system]

<b>Year</b>	<b>Number of buses</b>	<b>Bus mileage 1/</b>	<b>Total passengers 2/</b>	<b>Revenues (dollars)</b>
1993	470	18,120,044	75,557,318	19,837,616
1994	501	18,396,694	77,338,147	23,897,154
1995	508	19,031,466	72,745,086	25,058,736
1996	523	19,090,912	68,923,459	30,420,976
1997	524	19,452,526	68,634,884	29,804,091
1998	525	19,665,805	71,822,553	29,197,402
1999	525	19,639,602	66,236,147	27,819,265
2000	525	20,359,607	66,602,820	27,055,656
2001	529	21,710,838	70,384,025	26,963,518
2002	525	21,800,354	73,524,474	30,602,648
2003	525	21,482,533	69,100,627	30,114,566
2004 3/	536	19,380,256	61,297,980	33,652,238
2005	525	21,558,149	67,406,827	39,925,419
2006	525	21,166,957	70,384,355	41,531,437
2007	531	21,075,512	71,749,376	41,742,352
2008	540	21,536,584	69,759,954	41,984,132

1/ Estimated number of vehicle miles.

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

3/ Bus strike for 34 days.

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

**Table 18.26-- BUS FARE CHRONOLOGY, FOR OAHU:  
1971 TO 2009**

[As of July 1, 2009. In dollars]

Effective date	One-way cash fare		Monthly pass	
	Adult 1/	Youth 2/	Adult 1/	Youth 2/
March 1, 1971	.25	.15	(X)	(X)
March 2, 1971	.25	.10	(X)	(X)
June 9, 1972 3/	.25, .50	.10, .25	(X)	(X)
March 15, 1974	.25	.10	(X)	(X)
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	1.00	.50	25.00	12.50
July 1, 2001	1.50	.75	27.00	13.50
July 1, 2003	1.75	.75	30.00	13.50
October 1, 2003	2.00	1.00	40.00	20.00
July 1, 2009 4/	2.25	1.00	50.00	25.00

X Not applicable.

1/ Adult means any person over the age of 17 who does not qualify as a "youth".

2/ "Youth" means a person 6 through 17 years of age, subject to the presentation of a valid identification card establishing the age of the person. The term includes high school students, up to 19 years of age, with a valid high school identification card establishing the age of the students and the student's current enrollment, but excludes college, university and vocational training students if over the age of 17.

3/ Zone fares initiated and later eliminated.

4/ Other fares. Annual pass, adult: \$550.00, youth: \$275.00.

Visitor adult pass: \$20.00 for a four consecutive day period.

Senior citizen, a person 65 years of age or older:

one-way fare: \$1.00 with valid TheBus senior card or valid US Medicare card;

TheBus senior card: \$10.00 with valid State ID card, driver's license, birth certificate or passport;

monthly pass sticker: \$5.00 with valid TheBus senior card;

annual pass or renewal sticker: \$30.00 with approved application.

Person with a disability:

one-way fare: \$1.00 with valid disability bus pass, valid TheHandi-Van card or valid US Medicare card;

TheBus disability card: \$10.00 with approved application or valid US Medicare card;

monthly pass sticker: \$5.00 with valid disability bus pass;

annual pass or renewal sticker: \$30.00 with approved application or valid US Medicare card.

U-Pass, TheBus university bus pass program at reduced rates.

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

<<http://www.thebus.org/Fare/FarePasses.asp>> accessed June 22, 2009.

**Table 18.27-- STEAM RAILROAD MILEAGE AND PASSENGERS:  
1987 TO 2007**

[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]

Year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway		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)	1998	6.0	(NA)	6.5	19,763
1988	6.0	285,139	(NA)	(NA)	1999	6.0	281,161	7.0	14,733
1989	6.0	296,391	(NA)	(NA)	2000	(NA)	(NA)	7.0	13,962
1990	6.0	308,910	(NA)	(NA)	2001	(NA)	(NA)	7.0	14,982
1991	6.0	316,079	(NA)	(NA)	2002	(NA)	(NA)	7.0	17,882
1992	6.0	385,261	(NA)	(NA)	2003	(NA)	(NA)	7.0	15,970
1993	6.0	388,484	(NA)	(NA)	2004	(NA)	(NA)	7.0	15,013
1994	6.0	390,862	5.0	1/ 12,821	2005	(NA)	(NA)	7.0	16,069
1995	6.0	447,211	6.5	16,704	2006	(NA)	(NA)	7.0	14,869
1996	6.0	418,099	6.5	19,678	2007	(NA)	(NA)	7.0	15,808
1997	6.0	369,327	6.5	20,850					

NA Not available.

1/ Data incomplete.

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



**Table 18.28-- AIRPORTS AND HELIPORTS, BY CONTROL,  
BY ISLAND: 2007 AND 2008**

[As of December 31]

Island	Airports 1/				Helicopters 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
2007						
State total	9	7	6	1	-	6
Hawaii	2	2	1	-	-	5
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-
2008						
State total	9	7	6	1	-	6
Hawaii	2	2	1	-	-	5
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	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 18.29-- HONOLULU INTERNATIONAL AIRPORT AIRCRAFT OPERATIONS AND ENPLANED PASSENGERS: 2000 TO 2007**

[Fiscal year ending June 30]

Year	Aircraft operations 1/	Enplaned passengers 2/	Rank 3/
2000	237,188	10,815,367	23
2001	231,388	10,150,357	24
2002	219,286	9,108,574	25
2003	213,995	9,148,533	24
2004	217,151	9,250,413	25
2005	250,780	9,629,674	26
2006	246,383	9,583,299	25
2007	249,607	10,237,304	25

1/ Include itinerant air carrier and air taxi only.

2/ Include air carrier, commuter and international.

3/ Ranking of top 100 FAA towers by total enplanements, 1 for highest number of passengers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *Terminal Area Forecast Summary* (annual) <[http://www.faa.gov/data\\_research/aviation/taf\\_reports](http://www.faa.gov/data_research/aviation/taf_reports)> accessed June 22, 2009.

**Table 18.30-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 2006 TO 2008**

[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]

<b>Airport</b>	<b>Total operations</b>	<b>Air carrier</b>	<b>Air taxi</b>	<b>General aviation</b>	<b>Military</b>
2006					
Honolulu International	317,317	187,152	61,025	54,083	15,057
Kahului	164,992	67,676	70,272	24,468	2,576
Kona International	143,411	29,232	21,685	72,968	19,526
Lihue	118,169	26,551	61,438	26,287	3,893
Hilo International	96,724	17,226	50,485	20,294	8,719
Molokai	39,685	181	27,488	10,137	1,879
Kalaeloa	145,264	-	3,102	122,319	19,843
2007					
Honolulu International	310,607	182,185	65,744	49,207	13,471
Kahului	148,034	52,172	72,935	20,237	2,690
Kona International	144,537	32,359	19,635	75,767	16,776
Lihue	116,461	25,652	55,705	30,342	4,762
Hilo International	96,011	16,393	52,935	19,378	7,305
Molokai	37,615	-	26,821	9,407	1,387
Kalaeloa	123,184	-	1,706	102,407	19,071
2008					
Honolulu International	286,593	154,125	70,279	45,562	16,627
Kahului	128,022	39,240	68,981	17,005	2,796
Kona International	127,796	27,331	19,518	70,064	10,883
Lihue	113,371	21,364	57,303	29,681	5,023
Hilo International	75,598	14,577	43,502	13,466	4,053
Molokai	31,200	-	23,405	6,601	1,194
Kalaeloa	132,327	-	679	105,865	25,783

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

**Table 18.31-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORT:  
1991 TO 2008**

[An aircraft operation is an aircraft arrival or departure]

<b>Year</b>	<b>Honolulu Inter- national Airport</b>	<b>Hilo Inter- national Airport</b>	<b>Kona Inter- national Airport 1/</b>	<b>Kahului Airport</b>	<b>Lihue Airport</b>	<b>Molokai Airport</b>
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
1998	334,046	112,479	81,285	180,890	105,979	49,353
1999	346,609	115,820	82,955	188,385	115,523	49,184
2000	345,771	115,546	98,052	174,855	113,850	44,691
2001	327,006	96,238	107,793	160,324	103,655	43,806
2002	323,726	97,540	123,704	157,868	102,426	43,065
2003	301,919	99,415	119,210	151,558	97,576	40,944
2004	320,520	107,880	137,918	160,552	104,506	36,757
2005	330,506	108,462	154,967	168,449	107,497	39,364
2006	317,317	96,724	143,411	164,992	118,169	39,685
2007	310,607	96,011	144,537	148,034	116,461	37,615
2008	286,593	75,598	127,796	128,022	113,371	31,200

1/ Formerly Keahole Airport; effective June 16, 1997, the new name is The Kona International Airport at Keahole.

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

**Table 18.32-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS  
SERVING HAWAII: 1997 TO 2008**

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

<b>Service</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000 1/</b>	<b>2001 1/</b>	<b>2002 1/</b>
All carriers	40	40	43	42	43	44
Transpacific only	25	27	29	29	29	30
Domestic	12	12	12	13	13	13
Foreign	13	15	17	16	16	17
Transpacific and interisland	6	4	4	2	2	3
Interisland only	9	9	10	11	12	11
Passenger carriers	6	5	6	4	4	4
Cargo and mail only	3	4	4	7	8	7
<b>Service</b>	<b>2003 1/</b>	<b>2004 1/</b>	<b>2005 1/</b>	<b>2006 1/</b>	<b>2007 1/</b>	<b>2008</b>
All carriers	43	43	43	42	39	37
Transpacific only	30	32	32	32	30	28
Domestic	14	13	13	14	14	13
Foreign	16	19	19	18	16	15
Transpacific and interisland	2	2	2	2	2	2
Interisland only	11	9	9	8	7	7
Passenger carriers	4	4	4	4	3	3
Cargo and mail only	7	5	5	4	4	4

1/ Revised from previous *Data Book*.

Source: Hawaii State Department of Transportation, Airports Division, records; starting 2004 data from Official Airline Guide, records; calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 18.33-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR  
ARRIVING FLIGHTS: 2006 TO 2008**

[Non-stop flights only, does not include charter flights]

<b>Airport</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
State of Hawaii	10,360,886	1/ 10,190,698	9,162,013
Honolulu International	7,285,179	7,329,370	6,584,150
Kahului	1,954,782	1,875,590	1,591,863
Kona International	661,932	576,334	538,074
Hilo International	42,175	49,875	10,850
Lihu'e	416,818	1/ 359,529	437,076
Domestic	7,566,024	1/ 7,400,072	6,670,404
International	2,794,862	2,790,626	2,491,609

1/ Revised from previous *Data Book*.

Source: Official Airline Guide, *FlightDisk Worldwide Edition*. Calculations by the Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch. See also <<http://www.hawaii.gov/dbedt/info/visitor-stats/tourism/2008/dec08.xls>> .

**Table 18.34-- CIVIL FLYING: 1990 TO 1993 AND 1996**

Item	1990	1991	1992	1993	1996
Aircraft facilities, Dec. 31	50	48	47	47	46
Airports	34	33	32	32	30
Heliports	16	15	15	15	16
Public aircraft facilities, Dec. 31	16	17	17	18	18
Paved and lighted facilities, Dec. 31	12	12	13	13	13
Large aircraft in operation, Dec.	52	56	59	50	(NA)
Aloha Airlines	17	19	21	17	(NA)
Hawaiian Airlines	35	29	29	24	(NA)
Mid Pacific Airlines	-	8	9	9	(NA)
General aviation: 1/					
Active civil aircraft, Dec.	561	484	372	312	364
Hours flown (1,000)	278	259	176	140	155
Active personnel, Dec. 31:					
Pilots, except instructors	3,505	3,339	3,293	3,088	2,561
Flight instructors	309	350	388	360	378
Nonpilot airmen 2/	3,306	3,492	3,711	3,828	3,850

NA Not available.

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1996, 34.6 percent for aircraft and 52.3 percent for hours).

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

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

**Table 18.35-- SELECTED STATISTICS FOR ALOHA AND HAWAIIAN  
AIRLINES: 2006 AND 2007**

Subject	Aloha Airlines		Hawaiian Airlines	
	2006	2007	2006	2007
Operating aircraft (year-end)	24	24	29	29
Employees (full-time equivalents)	2,649	2,736	3,064	3,105
Aircraft departures 1/	55,701	58,000	53,126	57,000
Passengers enplaned (1,000) 2/	3,470	3,890	6,157	7,051
Revenue passenger miles (million) 2/	1,813	1,916	6,832	7,922
Cargo revenue ton miles (million) 1/	8	9	73	70
Revenues (\$million)				
Passenger 2/	309	(NA)	797	(NA)
Operating 1/	395	(NA)	882	(NA)
Profit/loss (\$million)				
Operating 1/	-26	(NA)	12	(NA)
Net 3/	-42	(NA)	-5	(NA)
Operating results (\$million) 1/				
Revenues	(NA)	390	(NA)	983
Earnings	(NA)	-72	(NA)	11
Net results (\$million) 1/				
Earnings 4/	(NA)	-85	(NA)	11

NA Not available.

1/ All services.

2/ Scheduled services only.

3/ All services. Excludes bankruptcy-related charges (reorganization expenses and fresh-start accounting gains).

4/ Net profit excludes bankruptcy-related charges (reorganization expenses and fresh-start accounting gains).

Source: Air Transport Association, Annual Reports of the U.S. Airline Industry, *ATA Economic Report* (annual) <[http://www.airlines.org/economics/review\\_and\\_outlook/annual+reports.htm](http://www.airlines.org/economics/review_and_outlook/annual+reports.htm)> accessed May 4, 2009.



**Table 18.36-- RANK OF HAWAII LOCATIONS AMONG THE TOP DOMESTIC AIRLINE MARKETS: 2001 TO 2007**

[Includes all commercial airports in a metropolitan area. Outbound plus inbound; does not include connecting passengers]

Rank	Origin or destination	Passengers (1,000)
2001 1/		
6	Honolulu - Kahului	2,120
13	Honolulu - Lihue	1,528
21	Honolulu - Kona	1,218
25	Honolulu - Hilo	1,132
2002 1/		
6	Honolulu - Kahului	2,019
13	Honolulu - Lihue	1,430
20	Honolulu - Kona	1,263
25	Honolulu - Hilo	1,103
2003 1/		
6	Honolulu - Kahului	1,791
21	Honolulu - Lihue	1,220
24	Honolulu - Kona	1,165
2004 1/		
13	Honolulu - Kahului	1,632
2005 1/		
16	Honolulu - Kahului	1,534
2006 2/		
12	Honolulu - Kahului	1,677
33	Honolulu - Lihue	1,142
35	Honolulu - Kona	1,113
39	Honolulu - Hilo	1,052
2007 2/		
7	Honolulu - Kahului	2,660
22	Honolulu - Lihue	1,847
26	Honolulu - Kona	1,771
29	Honolulu - Hilo	1,694

1/ Top 25 U.S. city pairs.

2/ Top 40 U.S. city pairs.

Source: Air Transport Association, Annual Reports of the U.S. Airline Industry, *ATA Economic Report* (annual) <[http://www.airlines.org/economics/review\\_and\\_outlook/annual+reports.htm](http://www.airlines.org/economics/review_and_outlook/annual+reports.htm)> accessed May 4, 2009.

**Table 18.37-- OVERSEAS AND INTER-ISLAND AIR PASSENGER  
MOVEMENTS: 1988 TO 2008**

[Revenue and non-revenue passengers, excluding Military Airlift Command (MAC)]

Year	Overseas passengers 1/		Honolulu transit	Inter-island passengers
	Arrivals	Departures		
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
1998	7,576,988	7,728,768	466,807	10,075,448
1999	7,699,676	7,737,494	376,236	10,173,069
2000	7,981,640	7,959,325	407,359	10,378,775
2001	7,270,532	7,263,415	275,853	9,169,182
2002	7,414,344	7,370,010	232,806	8,587,568
2003	7,492,272	7,472,568	125,253	7,820,545
2004	8,033,491	8,058,756	175,507	7,713,639
2005	8,730,582	8,749,733	100,172	7,867,942
2006	8,330,646	8,382,891	112,158	8,273,740
2007	8,920,759	8,910,032	100,783	9,188,139
2008	8,015,424	8,027,546	13,092	7,707,047

1/ At airports in Honolulu, Kahului, Kona, Lihue and Hilo.

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

**Table 18.38-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2008**

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
<b>OVERSEAS</b>						
Total	8,027,546	8,015,424	119,324	200,612	27,593	58,222
Honolulu	5,868,997	5,778,993	109,506	186,750	25,882	50,147
Kahului	1,345,248	1,363,813	3,674	9,113	988	4,737
Kona 3/	439,874	493,349	6,061	4,352	722	3,337
Lihue	366,085	371,638	83	398	-	-
Hilo	7,342	7,631	-	-	-	-
<b>INTERISLAND</b>						
Total	7,707,047	7,707,047	63,188	63,188	17,803	17,803
Honolulu	3,541,335	3,619,778	41,223	21,552	15,846	1,932
Kahului	1,381,700	1,373,026	4,019	10,285	875	7,651
Kona 2/	953,275	873,049	3,010	7,718	12	3,842
Lihue	940,322	931,990	3,689	9,859	305	1,004
Hilo	661,595	676,240	10,662	11,561	229	2,054
Waimea-Kohala	407	442	-	-	364	898
Hana	1,462	1,575	-	4	-	-
Kapalua	59,939	59,624	266	679	2	-
Molokai	106,988	110,268	204	730	132	276
Kalaupapa	3,135	4,283	13	180	5	15
Lanai	56,889	56,772	101	620	33	131
Princeville 3/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

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

2/ Formerly Keahole Airport.

3/ Leased by the State of Hawaii. Data not available beginning with 2008.

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

**Table 18.39-- AIR CARGO AND AIRMAIL: 1989 TO 2008**

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: outgoing & incoming	Airmail: outgoing & incoming
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
1998	508,858	311,196	56,902	107,039	140,034	40,548
1999	414,678	359,426	61,410	110,975	138,368	47,786
2000	359,762	320,502	59,480	110,396	142,380	60,768
2001	242,956	204,588	50,680	102,582	150,074	42,866
2002	320,952	335,252	51,492	98,266	148,104	30,138
2003	392,530	368,656	72,564	93,030	146,188	34,916
2004	304,544	403,002	55,330	88,069	145,364	41,995
2005	298,381	409,956	60,351	101,662	144,955	48,445
2006	270,910	404,195	69,827	115,104	138,670	37,538
2007	262,473	428,361	62,718	117,636	140,212	35,117
2008	238,648	401,225	55,186	116,443	126,376	35,606

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

**Table 18.40-- NON-STOP FLIGHTS TO DEPART STATE OF HAWAII,  
BY DESTINATION: JULY 2008**

[Transpacific flights to depart from the State of Hawaii during a one-week period,  
including scheduled and chartered flights]

<b>Destination</b>	<b>Flights during week</b>	<b>Destination</b>	<b>Flights during week</b>
Transpacific	767	Canada	18
		Vancouver	18
U.S.	610	Japan	89
West	526	Nagoya	7
Anchorage	2	Osaka	14
Denver	16	Tokyo	68
Las Vegas	14	Other Asia	9
Los Angeles	217	Seoul	7
Oakland	7	Taipei	2
Phoenix	49	Oceania	15
Portland	21	Auckland	3
Sacramento	7	Sydney	12
Salt Lake City	14	Other	26
San Diego	15	Christmas Island	1
San Francisco	105	Guam	7
San Jose	7	Majuro	5
Seattle	52	Manila	7
East	84	Nadi	2
Atlanta	14	Pago Pago	3
Chicago	21	Papeete	1
Dallas / Fort Worth	21		
Houston	14		
Minneapolis	7		
New York	7		

Source: Official Airline Guide, records; calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 18.41-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY  
HAWAIIAN AIRLINES: 2004 TO 2008**

[As of July 1]

<b>Category</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Regular fare	139.60	144.70	167.80	182.90	170.00
Lowest capacity-controlled fare	81.60	91.70	44.80	44.90	1/ 70.00

1/ Normal fare. Short-term special fares were also offered.

Source: Hawaiian Airlines, records.

**Table 18.42-- ANNUAL AVERAGE ROUND TRIP AIR FARES BETWEEN HONOLULU AND SELECTED DESTINATIONS: 2002 TO 2008**

[Annual average, direct round-trip airfare in dollars, includes all airlines, includes all classes, excludes non-revenue passengers]

<b>Year</b>	<b>Los Angeles</b>	<b>San Francisco</b>	<b>Las Vegas</b>	<b>Portland, Oregon</b>	<b>Seattle</b>	<b>Dallas/Fort Worth</b>	<b>Chicago</b>
2002	277	292	276	214	308	259	284
2003	280	280	189	262	312	261	234
2004	285	293	202	256	284	241	261
2005	300	301	254	249	290	267	333
2006	288	291	270	283	326	290	363
2007	301	298	275	279	300	280	366
2008	347	355	321	304	324	352	427

Source: Sabre Airline Solutions, *Sabre, Airport Data Intelligence, Segment Traffic Statistics*.

**Table 18.43-- STATE COMMERCIAL HARBORS: 2008**

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	2,749	122	906
Kawaihae	40	35	1,500	1,450	1,627	23	680
Maui:							
Kahului	35	35	2,400	2,050	3,319	44	1,401
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	125
Lanai:							
Kaunapala	60	20-60	(NA)	(NA)	400	-	100
Oahu:							
Honolulu Main	} 45	40	{ 3,300	1,520	} 29,872	1,298	9,031
Kapalama			{ 3,400	1,000			
Kalaheo							
Barbers Point	42	38	2,100	1,800	2,990	36	1,838
Kauai:							
Nawiliwili	40	35	1,950	1,540	2,216	76	1,372
Port Allen	35	35	1,500	1,200	1,200	35	32

NA Not available.

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



**Table 18.44-- HARBOR DEPTHS: 2007**

[In feet]

Harbor	Controlling depth		Project depth	
	Entrance channel	Basin	Entrance channel	Basin
Hilo	(NA)	34	(NA)	35
Kawaihae	42	36	40	35
Kahului	(NA)	34	(NA)	35
Barbers Point	42	37	42	1/ 38
Honolulu	45	2/ 40	45	3/ 40
Nawiliwili	4/ 41	34	40	35

NA Not available.

1/ 21 feet in light-draft harbor basin.

2/ 40 feet in Kapalama Basin and in connecting channel.

3/ 40 feet in connecting channel, 23 feet in Kalihi channel.

4/ Outer and inner channel.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2007, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>> accessed July 1, 2009.

**Table 18.45-- SMALL CRAFT MOORING FACILITIES,  
BY ISLAND: DECEMBER 31, 2008**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,838	1,572	214	182	1/ 539+	444
Hawaii	378	345	30	21	1/ 100+	94
Maui	188	187	-	-	150	105
Oahu	1,147	916	168	145	1/ 250+	231
Kauai	125	124	16	16	39	14

1/ '+' means equal to or greater (=>) than the number shown.

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, records.

**Table 18.46-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLAND:  
DECEMBER 2006**

[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	764	448	316	17	2/ 25	3/ 931	4/ 138	
Hawaii	75	57	18	6	24	156	115	
Maui	70	26	44	2	15	186	48	
Molokini	1	1	-	-	7	182	30	
Kahoolawe	1	1	-	-	7	120	20	
Lanai	9	9	-	-	8	91	13	
Molokai	28	11	17	1	21	321	138	
Oahu	294	158	136	4	25	931	71	
Kauai	58	28	30	4	24	174	80	
Niihau	-	-	-	-	-	-	-	
Lehua	1	1	-	-	7	704	-	
Midway	19	19	-	-	-	51	38	
At sea	208	137	71	-	-	-	-	

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

2/ Kaena Point Light and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: United States Coast Guard, Fourteenth Coast Guard District, records.

**Table 18.47-- UNDOCUMENTED VESSEL REGISTRATION:  
DECEMBER 31, 2008**

Subject	Number	Subject	Number
Registered vessels	16,744	Type of vessel:	
Length		Aux. powered sailing vessel	1,188
Under 16 feet	6,424	Cabin motorboat	2,782
16 to less than 26 feet	8,138	Open motorboat	6,328
26 to less than 40 feet	1,914	Runabout	2,653
40 to 65 feet	256	Sail only	728
Over 65 feet	12	Houseboat	5
Hull material		Motor vessel over 65 feet in length	14
Aluminum	554	Thrill craft	2,031
Fiberglass / plastic	14,521	Other	1,015
Rubber / fabric	758	Uses:	
Wood	710	Pleasure	15,404
Other	158	Commercial fishing	370
Steel	43	Charter fishing	17
Unknown	-	Commercial passenger	267
Propulsion		Other commercial	148
Inboard	6,212	Livery	136
Outboard	4,125	Dealer	15
Inboard / outboard	2,207	Manufacturer	4
Sail / inboard	691	Youth group - fee exempt	70
Sail / outboard	571	Government - fee exempt	285
Sail only	614	Other	28
Manual	125	Island where vessel is kept:	
Other	82	Hawaii	2,876
Unknown	-	Kauai	1,718
Waterjet	2,117	Lanai	90
Mooring location		Maui	1,999
Moored on water	3,512	Molokai	237
Moored on land	13,232	Oahu	9,824
Not disclosed	-	Not specified	-

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

**Table 18.48-- NUMBERED VESSELS REGISTERED IN HAWAII:  
1997 TO 2008**

[Non-documented numbered vessels registered with the Hawaii State Department of Land & Natural Resources, Division of Boating & Ocean Recreation. 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]

<b>Year</b>	<b>Number of vessels</b>	<b>Year</b>	<b>Number of vessels</b>
1997	15,138	2003	15,587
1998	15,138	2004	17,130
1999	15,481	2005	15,302
2000	14,874	2006	15,015
2001	14,273	2007	15,094
2002	15,445	2008	16,744

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *State of Hawaii Report of Undocumented Vessel Registration* (annual).

**Table 18.49-- BOATING ACCIDENTS: 1991 TO 2008**

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
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
1995	91	(NA)	18	(NA)	(NA)	(NA)
1996	46	(NA)	3	(NA)	(NA)	(NA)
1997	43	(NA)	3	(NA)	(NA)	(NA)
1998	42	(NA)	4	(NA)	(NA)	(NA)
1999	26	1	1	11	(NA)	(NA)
2000	22	2	2	11	22	244.8
2001	19	3	3	5	18	46.0
2002	22	2	2	7	24	118.0
2003	30	1	1	10	38	82.3
2004	24	1/ 5	5	6	32	107.2
2005	22	4	4	7	24	35.9
2006	30	7	7	6	32	431.3
2007	18	4	4	4	22	1,190.0
2008	27	5	5	22	30	299.0

NA Not available.

1/ Only two are termed U.S. Coast Guard reportable.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Recreational Boating Accident Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Recreational Boating Accident Statistics* (annual).

**Table 18.50-- VESSEL ARRIVALS, BY DRAFT: 2006 AND 2007**

[Excludes domestic fishing craft]

Harbor	2006			2007		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	984	667	317	1,014	659	355
Kawaihae	809	798	11	665	633	32
Kahului	1,426	1,143	283	1,506	1,150	356
Barbers Point	1,329	1,187	142	1,236	1,093	143
Honolulu	4,181	3,290	891	4,212	3,279	933
Nawiliwili	805	627	178	811	584	227
Kalaupapa 1/	3	3	-	3	3	-
Kaunakakai	273	2/ 273	-	248	(NA)	(NA)
Port Allen	3/ 30	(NA)	(NA)	33	33	-

NA Not available.

1/ 14 feet and less.

2/ 17 feet and less.

3/ 24 feet and less.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2006, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels*; *Waterborne Commerce of the United States Calendar Year 2007, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>> accessed July 1, 2009.

**Table 18.51-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1985 TO 2008**

[Cargo tonnage in short tons, based on wharfage/tariff. Fiscal years ending June 30]

Year	Overseas vessels		Inter-island vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
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
1998	1,320	6,732,716	4,309	1,765,496
1999	1,262	5,721,503	2,249	1,730,662
2000	1,292	6,325,580	2,215	1,872,074
2001	1,295	6,467,388	2,280	1,863,218
2002	1,270	6,425,288	2,663	1,796,910
2003	1,169	(NA)	2,521	(NA)
2004 1/	1,133	6,671,523	2,418	1,892,904
2005 1/	1,121	7,013,833	2,580	2,212,657
2006 1/	1,061	7,141,689	2,972	2,335,518
2007 1/	1,027	7,474,649	3,157	2,504,483
2008 1/	1,002	7,547,740	2,964	2,330,907

NA Not available.

1/ As of fiscal year 2004, cargo tonnage does not include tonnage for bunkering, that is fuel for the use of the vessel to which the fuel is delivered.

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



**Table 18.52-- CRUISE SHIP PASSENGER ARRIVALS AND DEPARTURES,  
FOR HONOLULU HARBOR: 2003 TO 2008**

[Fiscal years ending June 30. Includes cruise ships from out-of-state  
and cruise ships home-ported in Hawaii]

<b>Type of passenger</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
In	222,139	177,701	250,733	342,333	469,054	390,274
Out	219,038	175,382	253,104	363,165	487,063	388,300

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

**Table 18.53-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:  
1993 TO 2007**

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

<b>Year</b>	<b>Hilo</b>	<b>Kawaihae</b>	<b>Kahului</b>	<b>Barbers Point</b>	<b>Honolulu</b>	<b>Nawiliwili</b>
1993	1,469	655	2,216	9,357	10,595	1,283
1994	1,455	736	2,368	9,022	11,672	1,151
1995	1,354	873	2,586	8,233	11,545	1,130
1996	1,442	969	2,828	8,745	12,010	1,203
1997	1,489	980	2,895	10,513	10,353	1,091
1998	1,630	886	2,851	1/ 6,658	1/ 13,723	938
1999	1,701	1,090	3,513	1/ 8,707	1/ 12,259	1,348
2000	1,651	1,310	3,477	1/ 6,778	1/ 15,501	1,581
2001	1,680	1,378	3,695	1/ 6,079	1/ 16,562	1,478
2002	1,765	1,645	3,458	1/ 5,990	1/ 16,636	1,619
2003	1,850	1,801	3,778	1/ 5,930	1/ 17,836	1,721
2004	1,850	2,277	3,901	1/ 6,086	1/ 19,085	1,757
2005	1,996	2,217	4,132	1/ 6,344	1/ 20,394	1,977
2006	2,408	2,728	4,794	10,724	16,224	1,864
2007	2,782	2,558	5,630	11,295	17,582	2,333

1/ Revised from previous *Data Book*.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2007, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>> accessed July 1, 2009.

**Table 18.54-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,  
FOR SPECIFIED HARBORS: 2007**

[In 1,000 short tons. Categories may not sum to totals because of rounding]

<b>Category</b>	<b>Hilo</b>	<b>Kawaihae</b>	<b>Kahului</b>	<b>Barbers Point</b>	<b>Honolulu</b>	<b>Nawiliwili</b>
All freight traffic	2,782	2,558	5,630	11,295	17,582	2,333
Foreign						
Inbound	54	-	69	8,676	1/ 778	3
Outbound	-	-	-	268	359	-
Canadian						
Inbound	-	-	-	315	17	-
Outbound	-	-	-	-	-	-
Domestic						
Coastwise	2,728	2,558	5,561	2,036	16,423	2,330
Receipts	1,743	1,398	3,272	447	9,040	1,434
Shipments	985	1,160	2,289	1,589	7,383	896
Internal, inbound, upbound	-	-	-	-	5	-

1/ Includes 2,803 tons of foreign inbound in-transits.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2007, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>> accessed July 1, 2009.

**Table 18.55-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,  
FOR SPECIFIED HARBORS: 2007**

[In 1,000 short tons. Categories may not sum to totals due to rounding]

Port and commodity	All commodities	Foreign		Canadian		Domestic			
		Inbound	Outbound	Inbound	Outbound	Total	Coastwise		Internal 1/
							Receipts	Shipments	
Hilo	2,782	54	-	-	-	2,728	1,743	985	-
Petroleum and petroleum products	525	5	-	-	-	520	515	4	-
Primary manufactured goods	1,679	20	-	-	-	1,659	831	828	-
Food and farm products	144	-	-	-	-	143	105	38	-
Manufactured equipment, machinery and products	334	1	-	-	-	334	245	89	-
Kawaihae	2,558	-	-	-	-	2,558	1,398	1,160	-
Petroleum and petroleum products	1	-	-	-	-	1	1	-	-
Primary manufactured goods	1,878	-	-	-	-	1,878	938	941	-
Food and farm products	256	-	-	-	-	256	144	112	-
Manufactured equipment, machinery and products	357	-	-	-	-	357	262	95	-
Kahului	5,630	69	-	-	-	5,561	3,272	2,289	-
Petroleum and petroleum products	602	4	-	-	-	599	595	4	-
Primary manufactured goods	3,848	-	-	-	-	3,848	1,953	1,895	-
Food and farm products	365	-	-	-	-	365	216	150	-
Manufactured equipment, machinery and products	638	-	-	-	-	638	422	216	-
Barbers Point	11,295	8,676	268	315	-	2,036	447	1,589	-
Petroleum and petroleum products	9,234	7,423	150	-	-	1,661	261	1,400	-
Primary manufactured goods	789	529	13	-	-	247	62	185	-
Manufactured equipment, machinery and products	1	-	-	-	-	-	-	-	-
Honolulu	17,582	2/ 778	359	17	-	16,428	9,040	7,383	5
Petroleum and petroleum products	824	502	161	-	-	162	83	80	-
Primary manufactured goods	9,377	36	32	-	-	9,309	4,733	4,576	-
Food and farm products	2,182	65	52	8	-	2,056	1,233	822	-
Manufactured equipment, machinery and products	4,386	81	8	-	-	4,297	2,672	1,625	-

Continued on next page.

**Table 18.55-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,  
FOR SPECIFIED HARBORS: 2007 -- Con.**

Port and commodity	All commodities	Foreign		Canadian		Domestic			
		Inbound	Outbound	Inbound	Outbound	Total	Coastwise		Internal 1/
							Receipts	Shipments	
Nawiliwili	2,333	3	-	-	-	2,330	1,434	896	-
Petroleum and petroleum products	92	3	-	-	-	89	89	-	-
Primary manufactured goods	1,647	-	-	-	-	1,647	939	708	-
Food and farm products	161	-	-	-	-	161	95	65	-
Manufactured equipment, machinery and products	371	-	-	-	-	371	267	104	-

1/ Includes internal, inbound and upbound.

2/ Includes 2,803 tons of foreign inbound in-transits.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2007, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>> accessed July 1, 2009.

**Table 18.56-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2007**

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to 1997]

NAICS code	Kind of business	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,033	29,968	1,147,559	38,293
481	Air transportation	84	9,802	393,155	40,108
4811	Scheduled air transportation	57	9,528	378,969	39,775
483	Water transportation	25	4,598	195,568	42,535
484	Truck transportation	228	3,429	133,717	38,999
4841	General freight trucking	100	1,835	73,645	40,130
4842	Specialized freight trucking	128	1,594	60,072	37,696
485	Transit & ground passenger transp.	121	2,181	43,941	20,149
4854	School & employee bus transp.	20	1,021	19,004	18,614
4859	Other ground passenger transp.	43	792	16,694	21,087
48599	Other ground passenger transp.	43	792	16,694	21,087
485991	Special needs transportation	17	166	4,150	24,935
487	Scenic & sightseeing transportation	212	3,811	109,262	28,670
4871	Scenic & sightseeing transp., land	42	1,584	41,622	26,285
4872	Scenic & sightseeing transp., water	146	1,732	46,567	26,894
488	Support activities for transportation	239	3,808	187,368	49,210
4881	Support activities for air transp.	61	1,614	60,304	37,369
4883	Support activities for water transp.	36	1,214	95,627	78,803
48832	Marine cargo handling	9	1,021	85,414	83,664
4885	Freight transportation arrangement	86	521	21,283	40,850
492	Couriers & messengers	66	1,508	54,846	36,372
4921	Couriers and express delivery services	35	1,312	49,936	38,049
4922	Local messengers and local delivery	31	196	4,910	25,116
493	Warehousing & storage	53	812	29,162	35,902
4931	Warehousing & storage	53	812	29,162	35,902
49311	General warehousing & storage	42	659	22,570	34,258

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2007*, table 10 <<http://www.bls.gov/cew/cewbuln07.htm>> accessed July 2, 2009.

**Table 18.57-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND DESTINATION: 2002**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	13,480	23,659	(1/)
Destination			
Hawaii	12,798	22,440	957
California	340	(1/)	(1/)
Oregon	10	(1/)	(1/)
Washington	49	(1/)	(1/)
Mode of transportation			
Single modes			
Truck	7,484	11,494	127
Water	(1/)	547	108
Air (includes truck and air)	362	13	12
Pipeline 2/	1,437	6,919	(1/)
Multiple modes			
Parcel, U.S. Postal Service or courier	853	25	13
Truck and water	946	2,783	(1/)
Other multiple modes	325	1,452	124
Other and unknown modes	569	429	18
Distance shipped (miles)			
Less than 50	9,856	19,372	185
50 to 99	1,032	844	134
100 to 249	1,882	1,272	234
250 to 499	25	952	405
500 to 1,999	-	-	-
2,000 or more	684	(1/)	(1/)
Commodity 3/			
Meat, fish, seafood, and their preparations	228	50	(1/)
Other prepared foodstuffs and fats and oils	1,094	1,046	581
Gasoline and aviation turbine fuel	1,899	6,294	405
Fuel oils	1,203	5,671	172
Pharmaceutical products	763	(1/)	-
Printed products	201	42	(1/)
Textiles, leather, and articles of textiles or leather	752	27	(1/)
Electronic and other electrical equipment and components and office equipment	692	40	6

1/ Estimates do not meet publication standards because of sampling variability or poor response quality.

2/ Estimates exclude shipments of crude petroleum.

3/ Based on the Standard Classification of Transported Goods (SCTG) coding system.

Source: U.S. Census Bureau, 2002 *Economic Census, Transportation, 2002 Commodity Flow Survey, Hawaii*, EC02TCF-HI (December 2004), tables 1a, 3, 6 and 7

<<http://www.census.gov/svsd/www/02statepdf.html>> accessed July 19, 2005.