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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: 2012*, Section 23.

**Table 18.01-- DISTANCES OF SELECTED STATE ROUTES
AND INTERSTATES: 2015**

Route	Description	Miles
OAHU		
Interstates		
H-1	Queen Lili'uokalani Freeway, Lunalilo Freeway	27.15
H-2	Veterans Memorial Freeway	8.32
H-3	John A. Burns Freeway	15.32
H-201	Moanalua Freeway	4.08
State Routes		
61	Pali Hwy, Kalaniana'ole Hwy, Kailua Rd.	10.59
63	Kalihi St, Likelike Hwy	8.30
72	Kalaniana'ole Hwy	18.43
83	Kam. Hwy, Kahekili Hwy, Likelike Hwy	43.90
92	Nimitz Hwy, Ala Moana Blvd	9.28
93	Farrington Hwy.	19.52
99	Kam. Hwy, Kamananui Rd, Wilikina Dr, Farrington Hwy	23.84
750	Kunia Rd	8.05
HAWAII		
State Routes		
11	Kanoelehua Ave, Mamalahoa Hwy, Hawaii Belt Rd, Volcano Rd. Kuakini Hwy, Queen Kaahumanu Ext	121.97
19	Kuhio St, Kalaniana'ole St, Kamehameha Ave, Pauahi St Bayfront Hwy, Mamalahoa Hwy, Lindsey Rd, Hawaii Belt Rd Kawaihae Rd, Queen Kaahumanu Hwy	99.49
130	Keaau-Pahoa Rd, Pahoa-Kalapana Rd, Kaimu-Chain of Craters Rd 1/	21.82
190	Mamalahoa Hwy, Palani Rd	38.97
200	Saddle Rd 2/	43.22
250	Kohala Mountain Rd, Hawi Rd	19.28
270	Kawaihae Rd, Akoni Pule Hwy	27.00
MAUI		
State Routes		
30	High St, Honoapiilani Hwy, Kahekili Hwy	41.62
31	Piilani Hwy 3/	7.15
36	Hana Hwy	16.21
37	Haleakala Hwy, Kula Hwy	21.34
360	Hana Hwy, Keawa Pl	34.83
378	Haleakala Crater Rd	10.10

Continued on next page.

**Table 18.01-- DISTANCES OF SELECTED STATE ROUTES
AND INTERSTATES: 2015 -- Con.**

Route	Description	Miles
KAUAI		
State Routes		
50	Kaumualii Hwy	32.92
56	Kuhio Hwy	28.12
550	Waimea Canyon Dr, Kokee Rd	14.08
560	Kuhio Hwy (Starts at end of Route 56)	10.01
MOLOKAI		
State Routes		
450	Kamehameha V Hwy	27.50
460	Kaunakakai PI & Maunaloa Hwy	16.55
LANAI		
State Routes		
440	Kaumalapau Hwy & Manele Rd	13.17

1/ Designated length and the real traveled length are different due to lava flows, between 21.83 and 25.32 miles.

2/ Not including 26 miles proposed.

3/ Not including 4.86 miles proposed.

Source: Hawaii State Department of Transportation, Highways Division, State Route System Straight Line Diagrams 2015 and records.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 2013 TO 2015

[As of December 31. Excludes private roads and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
2013				
State total	4,430.13	88.53	4,169.19	172.41
Hawaii	1,495.79	-	1,436.49	59.30
Maui	642.58	-	585.88	56.70
Lanai	47.80	-	33.80	14.00
Molokai	136.13	-	124.13	12.00
Oahu	1,668.14	88.53	1,571.69	7.92
Kauai	439.69	-	417.20	22.49
Niihau	-	-	-	-
2014				
State total	4,439.43	88.49	4,178.53	172.41
Hawaii	1,498.96	-	1,439.66	59.30
Maui	643.76	-	587.06	56.70
Lanai	48.21	-	34.21	14.00
Molokai	136.12	-	124.12	12.00
Oahu	1,671.41	88.49	1,575.00	7.92
Kauai	440.97	-	418.48	22.49
Niihau	-	-	-	-
2015				
State total	4,455.08	88.49	4,194.18	172.41
Hawaii	1,505.33	-	1,446.03	59.30
Maui	646.40	-	589.70	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,678.07	88.49	1,581.65	7.92
Kauai	440.97	-	418.48	22.49
Niihau	-	-	-	-

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

Table 18.03-- HIGHWAY BRIDGES, BY ISLAND: DECEMBER 31, 2015

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: 2010 TO 2015

Area	Number of bridges	Deficient and obsolete					
		Total		Structurally deficient 1/		Functionally obsolete 2/	
		Number	Percent	Number	Percent	Number	Percent
2010							
U.S.	604,474	146,633	24.3	69,223	11.5	77,410	12.8
Hawaii	1,137	507	44.6	141	12.4	366	32.2
2011							
U.S.	605,086	143,889	23.8	67,526	11.2	76,363	12.6
Hawaii	1,132	506	44.7	144	12.7	362	32.0
2012							
U.S.	607,380	151,497	24.9	66,749	11.0	84,748	14.0
Hawaii	1,131	505	44.7	146	12.9	359	31.7
2013							
U.S.	607,751	147,870	24.3	63,522	10.5	84,348	13.9
Hawaii	1,125	494	43.9	144	12.8	350	31.1
2014							
U.S.	610,749	145,890	23.9	61,365	10.0	84,525	13.8
Hawaii	1,137	483	42.5	61	5.4	422	37.1
2015							
U.S.	611,845	142,915	23.4	58,791	9.6	84,124	13.7
Hawaii	1,142	495	43.3	60	5.3	435	38.1

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 July 6, 2016; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2015

Island and name of tunnel	Length (feet)
Oahu	
Pali, Honolulu side	1,049
to Honolulu from Honolulu	1,076
Pali, Kailua side	524
to Honolulu from Honolulu	531
Wilson	2,786
to Honolulu from Honolulu	2,804
H-3	5,579
to Honolulu from Honolulu	5,569
H-3, Hospital Rock	389
to Honolulu from Honolulu	382
Middle Street	359
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:
2005 TO 2015**

[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
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
2009	1,149,928	1,117,790	895,770	63	2,143
2010	1,151,681	1,120,080	898,452	64	2,103
2011	1,210,370	1,181,148	951,170	79	2,320
2012	1,310,286	1,278,233	1,033,975	91	2,621
2013	1,371,341	1,341,152	1,089,709	98	2,669
2014	1,312,445	1,284,193	1,042,818	105	2,565
2015	1,261,343	1,233,523	1,001,879	108	2,465
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor-scooters 2/	Trailers and semi-trailers
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
2009	188,860	813	1,262	28,879	32,138
2010	187,733	861	1,431	29,436	31,601
2011	191,850	989	1,718	33,022	29,222
2012	200,124	1,183	2,016	38,223	32,053
2013	203,790	1,329	2,377	41,180	30,189
2014	196,892	1,405	2,637	37,771	28,252
2015	191,984	1,439	2,817	32,831	27,820

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, Safe Communities Program, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTY:
1995 TO 2015**

[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]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
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
2009	1,117,790	718,253	172,209	73,847	153,481
2010	1,120,080	720,267	171,974	73,563	154,276
2011	1,181,148	755,425	181,931	78,373	165,419
2012	1,278,233	814,361	197,273	85,292	181,307
2013	1,341,152	848,567	208,624	90,351	193,610
2014	1,284,193	816,738	199,336	85,652	182,467
2015	1,233,523	780,909	194,633	81,947	176,034

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,
BY COUNTY: 2015**

[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	1,261,343	793,453	202,611	85,342	179,937
Motor vehicles	1,233,523	780,909	194,633	81,947	176,034
Passenger vehicles 1/	1,001,879	655,112	149,998	57,832	138,937
Ambulances	108	56	19	12	21
Buses	2,465	1,886	308	83	188
Trucks 1/	191,984	98,786	38,952	21,757	32,489
Truck tractors	1,439	692	197	471	79
Truck cranes	2,817	2,507	146	79	85
Motorcycles, motorscooters 2/	32,831	21,870	5,013	1,713	4,235
Trailers and semi-trailers	27,820	12,544	7,978	3,395	3,903

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, Safe Communities Program, records.

**Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS,
BY COUNTY: 2015**

[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	1,200,692	759,039	189,620	80,234	171,799
Taxable vehicles	1,098,324	662,678	187,141	79,095	169,410
Exempt vehicles	102,368	96,361	2,479	1,139	2,389
Federal government	432	423	7	-	2
State government	6,651	6,645	5	-	1
County government	8,039	5,125	1,058	629	1,227
Fire department	341	59	149	61	72
Police department	1,917	1,336	421	29	131
Consulates	56	54	2	-	-
Disabled veterans	322	45	272	4	1
Military non-resident	74,563	74,238	69	182	74
Farm	120	37	56	1	26
Horseless carriage	61	48	1	12	-
Electric vehicles	4,079	3,096	183	136	664
National Guard	5,787	5,255	256	85	191

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTY: 2014**

[For the American Community Survey 1-Year Estimates, data were released for geographic areas with populations of 65,000 or more. At this time Kalawao county does not meet these thresholds. Data are based on a sample and are subject to sampling variability]

Vehicles available	State total	Hawaii	Honolulu	Kauai	Maui
Occupied units	450,769	65,178	309,002	22,234	54,303
None	36,888	2,990	29,525	1,065	3,270
1	153,610	23,592	106,455	6,243	17,306
2	164,961	25,904	110,775	8,605	19,677
3	61,427	8,821	39,081	4,350	9,175
4 or more	33,883	3,871	23,166	1,971	4,875

Source: U.S. Census Bureau, 2014 American Community Survey 1-Year Estimates
<<http://www.census.gov/acs/www/>> accessed July 6, 2016.

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 LIGHT VEHICLE REGISTRATIONS:
1989 TO 2014**

Year	Number	Year	Number	Year	Number
1989	57,456	1998	40,673	2007	54,492
1990	54,544	1999	45,054	2008	41,184
1991	47,783	2000	51,500	2009	32,878
1992	44,865	2001	51,388	2010	32,649
1993	45,249	2002	53,314	2011	35,576
1994	44,175	2003	62,712	2012	42,463
1995	41,083	2004	65,882	2013	48,721
1996	41,480	2005	70,268	2014	54,162
1997	42,487	2006	67,224		

Source: Hawaii Automobile Dealers Association, *HawaiiDealer 2015 First Quarter Edition* and previous editions.

**Table 18.13-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY NAMEPLATE: 2012 TO 2014**

Nameplate	2012 1/	2013	2014
Total	42,506	48,721	54,162
Toyota/Scion	11,402	12,456	14,580
Honda	5,583	7,144	7,592
Nissan	4,259	4,925	5,752
Ford	3,145	4,040	4,326
Kia	1,310	1,461	1,955
Chevrolet	1,833	1,767	1,911
Mazda	1,518	1,879	1,884
Hyundai	1,899	1,830	1,858
BMW	1,196	1,576	1,613
Lexus	1,237	1,350	1,607
Subaru	607	1,063	1,499
Jeep	894	1,088	1,327
Mercedes	1,081	1,051	1,279
Dodge	777	1,174	1,246
Acura	851	960	861
Volkswagen	1,024	1,028	855
Ram	346	416	629
Audi	432	407	485
GMC	442	443	477
MINI	562	504	441
Infiniti	310	263	285
Cadillac	158	264	239
Chrysler	322	315	235
Porsche	143	162	194
All others	267	189	189
Volvo	220	180	173
Land Rover	117	132	142
Mitsubishi	172	159	124
Fiat	164	115	119
Buick	105	92	109
Telsa	7	167	86
Lincoln	71	86	59
Jaguar	52	35	31

1/ Data for 2012 has been revised in 2015 with total of 42,463 but specific breakdown not published.

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2014 First Quarter and 2015 First Quarter.

**Table 18.14-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY PLACE OF MANUFACTURE: 2012 TO 2014**

Type and place of manufacture	2012 1/	2013	2014
Total	42,506	48,721	54,162
Car	21,925	24,761	26,504
Light truck	20,581	23,960	27,658
Domestic Brands	8,105	9,860	10,658
European Brands	5,129	5,315	5,504
Japanese Brands	26,063	30,255	34,187
Korean Brands	3,209	3,291	3,813

1/ Data for 2012 has been revised in 2015 with total of 42,463 but specific breakdown not published.

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2014 First Quarter and 2015 First Quarter.

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTY:
1991 TO 2015**

[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
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
2009	905,704	614,783	128,692	52,925	109,304
2010	911,417	618,975	129,041	52,981	110,420
2011	915,033	621,769	129,087	53,184	110,993
2012	910,265	618,492	128,423	52,683	110,666
2013	904,500	612,380	128,537	52,998	110,585
2014	902,590	607,823	129,753	53,350	111,664
2015	918,768	617,293	132,461	54,445	114,569

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

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: 2014 AND 2015**

[As of December 31]

Years of age	Both sexes		Male		Female	
	2014	2015	2014	2015	2014	2015
Total	902,590	918,768	467,181	474,841	435,409	443,927
15 to 19	23,322	23,630	12,175	12,342	11,147	11,288
20 to 24	64,362	62,445	34,162	32,935	30,200	29,510
25 to 29	71,024	70,884	36,667	36,441	34,357	34,443
30 to 34	82,652	83,376	41,991	42,465	40,661	40,911
35 to 39	77,485	80,696	39,555	41,028	37,930	39,668
40 to 44	78,670	77,589	40,456	39,747	38,214	37,842
45 to 49	80,264	81,692	41,234	42,144	39,030	39,548
50 to 54	86,576	86,334	44,824	44,557	41,752	41,777
55 to 59	87,123	87,822	44,569	44,987	42,554	42,835
60 to 64	81,664	84,112	42,266	43,486	39,398	40,626
65 to 69	69,186	73,475	36,455	38,577	32,731	34,898
70 to 74	45,740	49,959	24,304	26,551	21,436	23,408
75 to 79	25,462	27,278	13,200	14,127	12,262	13,151
80 to 84	16,769	16,711	8,561	8,509	8,208	8,202
85 to 89	9,378	9,584	4,952	5,038	4,426	4,546
90 to 94	2,659	2,873	1,635	1,692	1,024	1,181
95 to 99	254	308	175	215	79	93

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

Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1992 TO 2015, AND BY COUNTY, 2014 AND 2015

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/
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
1998	422,928	473	8,090.2	9,055
1999	417,374	460	8,215.2	9,058
2000	428,425	455	8,525.7	9,058
2001	445,558	461	8,754.3	9,052
2002	477,518	484	8,937.3	9,050
2003	483,232	469	9,325.0	9,046
2004	498,816	463	9,734.6	9,042
2005	505,418	459	10,129.1	9,045
2006	531,505	471	10,196.3	9,044
2007	541,956	478	10,259.9	9,043
2008	540,910	480	10,189.1	9,036
2009	545,413	488	10,095.2	9,031
2010	500,987	447	10,111.0	9,027
2011	546,247	462	10,653.9	9,020
2012	520,544	407	11,517.7	9,011
2013	523,856	391	12,078.2	9,006
2014 3/	524,642	416	10,173.5	8,409
2015	540,559	480	11,129.7	9,465
COUNTY: 2014 3/				
Honolulu	308,700	378	6,185.3	7,583
Hawaii	101,350	508	1,683.1	8,432
Kauai	45,825	525	828.5	9,489
Maui	68,767	379	1,476.6	8,130
COUNTY: 2015				
Honolulu	316,253	405	6,811.9	8,723
Hawaii	107,266	551	1,890.8	9,715
Kauai	45,913	560	863.7	10,540
Maui	71,127	404	1,563.3	8,881

Continued on next page.

Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1992 TO 2015, AND BY COUNTY, 2014 AND 2015 -- Con.

1/ Includes gasoline, diesel oil, and butanol.

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/ For 2014, annual vehicle miles of travel data 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: 2013 TO 2015

[Annual average daily traffic (AADT), the average of 24 hour counts collected every day in the year, unless otherwise specified]

Site	Route	Milepoint	2013	2014	2015
Oahu					
H-1 west of Kualalalai Pkwy overpass	H-1	3.41	87,900	91,100	91,600
H-1 west of Kaonohi St overpass	H-1	11.74	232,300	234,200	231,100
H-1 at Halawa Stream bridge	H-1	13.54	106,600	107,500	103,300
H-1 at airport off-ramp	H-1	16.22	95,600	96,000	105,800
H-1 west of King St tunnel	H-1	18.77	58,500	58,900	63,100
H-1 at Kalihi interchange	H-1	19.27	158,400	161,600	170,300
H-1 at Kapalama drainage canal bridge	H-1	20.24	173,500	177,500	186,700
H-1 at McCully St overpass	H-1	23.55	133,100	131,400	137,200
H-1 at Manoa-Palolo drainage canal	H-1	24.60	107,600	108,100	110,100
H-2 south of Pineapple Rd overpass	H-2	4.02	94,000	93,900	95,200
H-3 west of North Halawa Valley bridge	H-3	1.28	47,400	48,100	47,400
H-3 west of Kamehaha Hwy interchange	H-3	10.37	26,500	27,000	26,500
Moanalua Freeway west of Kahuapaani St overpass	H-201	0.21	45,200	44,200	46,200
Moanalua Freeway west of Moanalua St bridge	H-201	3.19	97,600	95,800	104,800
Pali Hwy at tunnels	61	5.69	41,800	41,600	41,900
Likelike Hwy north of Valley View Drive	63	2.96	30,000	30,600	31,600
Sand Island Parkway north of Pascule bridge	64	1.41	12,500	13,200	13,300
Kalaniana'ole Hwy east of Ainakoa Ave	72	18.32	82,200	82,000	82,600
Kamehameha Hwy at Wilson Bridge	80	0.01	47,200	38,200	49,600
Kamehameha Hwy 1.6 miles northeast of Johnson Rd	83	30.59	11,900	12,000	12,300
Nimitz Hwy east of Sand Island Access Rd	92	4.04	59,000	62,200	56,700
Farrington Hwy at Makaha bridge #2	93	12.50	18,400	18,500	18,500
Kalaeloa Blvd south of H-1 on-ramp	95	0.20	33,200	34,689	35,400

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Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2013 TO 2015 -- Con.

Site	Route	Milepoint	2013	2014	2015
Oahu con.					
Kamehameha Hwy at Kalauao bridge	99	20.67	53,300	49,300	51,816
Kunia Rd near Kunia Dr	750	4.81	14,100	13,800	14,400
Hawaii					
Volcano Rd near Ikaika St	11	5.29	39,900	40,500	41,700
Volcano Rd at Glenwood Park	11	19.66	6,000	6,300	6,700
Mamalahoa Hwy at states' south Kona baseyard	11	104.14	6,200	6,300	6,700
Queen Kaahumanu Hwy near Hualalai Rd	11	120.77	(NA)	23,800	25,900
Hawaii Belt Rd north of Kalaoa bridge	19	8.01	10,100	9,700	9,800
Queen Kaahumanu Hwy near Kaupulehu Dr	19	83.60	13,000	13,100	13,700
Queen Kaahumanu Hwy north of OTEC access Rd	19	93.74	23,500	24,000	24,400
Keaau-Paho Rd south of waste station Rd	130	2.51	(NA)	24,400	28,900
Maui					
Honoapiilani Hwy south of Kaanapali Pkwy	30	23.58	(NA)	40,500	42,100
Honoapiilani Hwy north of Kahana Kai bridge	30	28.37	(NA)	15,673	15,787
Piilani Hwy near Lipoa Pkwy	31	6.97	33,000	32,700	36,900
Hana Hwy near Central Power Plant Rd	36	1.70	33,700	35,600	41,000
Hana Hwy near Baldwin Park	36	6.28	(NA)	18,200	18,700
Keolani Pl near Palapala Dr	36A	0.51	14,500	14,864	15,500
Kaleakala Hwy near North Firebreak Rd	37	0.61	29,200	29,900	31,200
North Kihei Hwy near 9th St	310	0.86	15,500	15,800	16,800
Mokulele Hwy near Nakii Rd	311	2.38	31,000	31,900	32,300
Kuihelani Hwy near Mauilani Pkwy	380	1.52	22,600	23,500	24,500

Continued on next page.

Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2013 TO 2015 -- Con.

Site	Route	Milepoint	2013	2014	2015
Kauai					
Kaumualii Hwy near Nani St	50	1.51	25,000	25,800	26,800
Kaumualii Hwy at Punee Rd	50	8.35	14,100	14,300	14,600
Kaumualii Hwy near Alawai Rd	50	22.37	10,700	10,700	11,600
Rice St near Mokoï St	51	0.79	13,800	14,500	14,100
Kuhio Hwy near Huilei Rd	56	2.40	15,600	14,700	15,200
Kuhio Hwy northwest of Kolo Rd and Kalamania Rd	56	23.53	14,200	14,400	14,700
Nawiliwili Rd near Kanani St	58	1.44	12,100	12,900	12,500
Akuhuni Rd near Palai St	570	0.31	11,200	12,000	12,800

NA Not available.

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

**Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU
URBANIZED AREA: 2011 TO 2014**

Subject	2011	2012	2013	2014
Population (1,000s)	1/ 800	820	835	845
Peak commuters (1,000s) 2/	364	374	381	379
Daily vehicle-miles of travel (1,000s)				
Freeway	6,265	5,855	5,959	6,066
Arterial streets	3,148	3,125	3,139	3,252
Cost components				
Value of time (\$/hour)	16.79	17.14	17.39	17.67
Commercial cost (\$/hour)	86.81	89.56	89.60	94.04
Gasoline (\$/gallon)	3.66	4.11	4.35	4.21
Diesel (\$/gallon)	4.43	4.79	4.91	4.86
Annual excess fuel consumed 3/				
Total fuel (1,000 gallons)	1/ 13,478	13,738	13,951	14,118
Fuel per peak auto commuter (gallons)	1/ 25	25	25	26
Annual delay 4/				
Total delay (1,000s of person-hours)	1/ 26,417	26,926	27,344	27,672
Delay per peak auto commuter (person-hours) 5/	1/ 50	50	50	50
Congestion cost (constant 2014 \$) 6/				
Total cost (\$ million)	1/ 619	618	619	616
Cost per peak auto commuter (\$)	1/ 1,130	1,128	1,129	1,125

1/ Revised from previous *Data Book*.

2/ Number of travelers who begin a trip during the morning or evening peak travel periods (6 to 10 a.m. and 3 to 7 p.m.). "Commuters" are private vehicle users unless specifically noted.

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

4/ The overall size of the congestion problem. Measured by the total travel time above that needed to complete a trip at free-flow speeds.

5/ A yearly sum of all the per-trip delays for those persons who travel in the peak period (6 to 10 a.m. and 3 to 7 p.m.). This measure illustrates the effect of traffic slowdowns as well as the length of each trip.

6/ Value of travel delay for 2014 (estimated at \$17.67 per hour of person travel and \$94.04 per hour of truck time) and excess fuel consumption estimated using state average cost per gallon.

Source: Texas Transportation Institute, *Urban Mobility Scorecard* <<http://mobility.tamu.edu/ums/report/>> accessed July 8, 2016.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1996 TO 2014, AND BY COUNTY, 2013 AND 2014

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal 2/	Injured only	Killed 2/
1996	13,299	132	11,652	145
1997	12,445	117	11,190	131
1998	11,546	113	10,304	120
1999	10,632	90	9,604	98
2000	11,112	116	9,893	132
2001	10,872	133	8,647	140
2002	10,659	116	8,947	119
2003	11,289	117	9,088	133
2004	11,002	128	8,827	142
2005	10,592	129	8,574	140
2006	10,260	144	8,151	161
2007 3/	9,531	123	7,476	138
2008 3/	8,247	102	6,427	107
2009 3/	7,377	99	5,784	109
2010 3/	7,944	108	6,444	113
2011 3/	7,457	97	6,584	100
2012 3/ 4/	4,504	115	3,952	125
2013 4/	2,273	94	2,064	102
2014 4/	62	95	37	95
COUNTY: 2013 4/				
Honolulu	1,650	50	1,457	53
Hawaii	357	21	377	26
Kauai	249	7	223	7
Maui	17	16	7	16
COUNTY: 2014 4/				
Honolulu	28	53	10	53
Hawaii	13	13	12	13
Kauai	4	8	9	8
Maui	17	21	6	21

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/ Effective 2005, based on Fatality Analysis Reporting System (FARS) data published by the National Highway Traffic Safety Administration.

3/ Revised from previous *Data Book*.

4/ Preliminary.

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: 2012 TO 2014

[Blood alcohol concentration (BAC) is measured in grams per deciliter (g/dl), one deciliter = 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
2012, State total 1/	176	124	70	52	30	10	6	42	24
Hawaii	51	34	67	17	33	6	12	10	20
Honolulu	86	65	76	21	24	3	4	18	20
Kauai	8	5	63	3	38	-	-	3	38
Maui	31	19	61	12	39	1	3	11	36
2013, State total	123	82	67	41	33	9	7	32	26
Hawaii	24	17	70	7	30	3	13	4	18
Honolulu	66	44	67	22	33	5	7	17	25
Kauai	10	6	60	4	40	-	-	4	40
Maui	23	15	63	8	37	1	4	7	32
2014, State total	128	90	70	38	30	3	3	35	27
Hawaii	17	12	73	5	27	1	3	4	24
Honolulu	70	49	70	21	30	2	3	19	27
Kauai	13	11	85	2	15	-	-	2	15
Maui	28	18	63	10	37	1	3	10	34

1/ Revised from previous *Data Book*.

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/>> accessed July 8, 2016.

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLAND:
2013 TO 2015**

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	2013	2014	2015	2013	2014	2015
Hawaii	238	270	256	6,040	4,719	4,864
Maui	3/ 27	(NA)	(NA)	1,426	(NA)	(NA)
Lanai	(NA)	(NA)	(NA)	15	(NA)	(NA)
Molokai	(NA)	(NA)	(NA)	23	(NA)	(NA)
Oahu	1,814	1,914	2,479	439,900	468,295	498,223
Kauai 4/	-	-	-	2,743	2,930	5/ 944

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; for the Honolulu County registrations are permanent with no annual renewals.

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.

5/ Due to a misinterpretation on the retail level that has been corrected in 2015. 2015 figure might not be comparable to previous years.

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 TO 2012**

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS)]

Subject	State total	County			
		Hawaii	Honolulu	Kauai	Maui
Number of establishments					
1997	63	11	25	(NA)	19
2002	64	13	19	10	22
2007	102	25	40	11	26
2012	116	26	45	16	29
Revenue (\$1,000)					
1997	347,624	45,172	154,679	(NA)	104,759
2002	478,241	70,509	208,435	61,100	138,197
2007	(D)	103,774	(D)	82,207	(D)
2012	728,725	108,308	(D)	96,896	(D)

NA Not available.

D Withheld to avoid disclosing data for individual companies.

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> accessed February 25, 2005; *2007 Economic Census, Real Estate and Rental and Leasing: Geographic Area Series: Hawaii* <<http://www.census.gov/econ/census07/>> accessed June 1, 2010; *2012 Economic Census, Real Estate and Rental and Leasing: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012* <<http://www.census.gov/econ/census/help/sector/gas.html>> accessed June 19, 2015.

**Table 18.24-- MOTOR CARRIER CHARACTERISTICS, BY COUNTY:
2013 TO 2015**

[As of September]

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
2013					
State total	1,729	6,304	150,521	6,154	31,557
Hawaii	291	950	22,486	1,353	5,291
Maui	237	1,042	25,580	916	3,849
Honolulu	1,108	3,986	94,783	3,288	20,314
Kauai	93	326	7,672	597	2,103
2014					
State total	1,776	6,493	153,099	6,106	31,297
Hawaii	290	954	22,652	1,339	5,233
Maui	242	1,048	25,700	910	3,827
Honolulu	1,153	4,169	97,135	3,260	20,135
Kauai	91	322	7,612	597	2,102
2015					
State total	1,659	6,717	158,419	5,172	26,632
Hawaii	245	943	22,391	1,005	4,464
Maui	237	1,110	27,220	828	3,201
Honolulu	1,078	4,239	98,766	2,797	17,137
Kauai	99	425	10,042	542	1,830

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

2/ Includes truckers, moving companies, etc.

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

Table 18.25-- PUBLIC TRANSIT, FOR OAHU: 1993 TO 2015

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

Year	Number of buses 1/	Bus mileage 2/	Total passengers 3/	Revenues (dollars)
1993	470	18,120,044	76,136,390	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 4/	536	19,380,256	61,297,980	33,652,238
2005	496	21,558,149	67,406,827	39,925,419
2006	499	21,166,957	70,384,355	41,531,437
2007	524	21,075,502	71,749,376	41,742,352
2008	528	21,536,584	69,759,954	41,984,132
2009	530	21,502,920	77,329,706	42,454,923
2010	530	21,324,615	73,158,633	45,874,670
2011	516	21,378,394	73,832,127	51,721,436
2012	515	21,233,308	76,296,482	54,774,006
2013	526	20,310,301	69,242,214	55,038,042
2014	519	20,707,063	66,285,449	54,976,149
2015	521	21,229,733	69,327,213	55,064,804

1/ Number of buses refers to number of buses in active fleet.

2/ Estimated number of vehicle miles.

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

4/ Bus strike for 34 days.

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

**Table 18.26-- BUS FARE CHRONOLOGY, FOR OAHU:
1971 TO 2016**

[As of July 1, 2016. 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
July 1, 2010 5/	2.50	1.25	60.00	30.00

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.

5/ Other fares. Annual pass, adult: \$660.00, youth: \$330.00.

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 July 8, 2016.

**Table 18.27-- AIRPORTS AND HELIPORTS, BY CONTROL,
BY ISLAND: 2015**

[As of December 31]

Island	Airports 1/				Helicopters 3/	
	State 2/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	9	7	4	1	-	6
Hawaii	2	2	1	-	-	5
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	2	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-

1/ Excludes private airports.

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

3/ Excludes military and private heliports.

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

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

Table 18.28-- HONOLULU INTERNATIONAL AIRPORT AIRCRAFT OPERATIONS AND ENPLANED PASSENGERS: 2000 TO 2014

[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
2008	228,420	9,450,696	25
2009	219,158	8,615,603	25
2010	202,150	8,633,599	25
2011	206,789	8,598,902	27
2012	214,947	9,014,375	27
2013	223,083	9,484,443	27
2014	234,594	9,422,406	27

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) <https://www.faa.gov/data_research/aviation/taf/> accessed July 8, 2016.

Table 18.29-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 2013 TO 2015

[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	Total operations	Air carrier	Air taxi	General aviation	Military
2013					
Honolulu International	290,237	154,585	71,763	49,329	14,560
Kahului	128,303	45,018	61,623	18,998	2,664
Kona International	118,037	22,276	26,621	52,548	16,592
Lihue	126,302	26,194	68,938	24,857	6,313
Hilo International	94,311	14,933	46,536	18,434	14,408
Molokai	34,518	1,358	24,005	6,041	3,114
Kalaeloa	139,124	2	2	110,742	28,378
2014					
Honolulu International	311,138	157,018	79,584	53,319	21,217
Kahului	128,612	49,994	60,132	15,995	2,491
Kona International	129,655	22,266	22,953	67,585	16,851
Lihue	126,577	25,849	65,151	29,771	5,806
Hilo International	86,983	15,104	47,337	13,572	10,970
Molokai	34,363	329	27,020	5,168	1,846
Kalaeloa	132,385	42	873	99,100	32,370
2015					
Honolulu International	312,655	154,429	88,620	50,813	18,793
Kahului	134,674	51,988	65,356	14,878	2,452
Kona International	135,064	24,809	22,350	71,545	16,360
Lihue	132,398	23,598	77,497	24,659	6,644
Hilo International	81,269	15,650	47,663	8,376	9,580
Molokai	37,328	-	31,728	4,180	1,420
Kalaeloa	128,558	9	2,075	101,424	25,050

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

**Table 18.30-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1991 TO 2015**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport	Kona International Airport 1/	Kahului Airport	Lihue Airport	Molokai Airport
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
2009	274,434	67,851	109,581	118,800	99,171	24,295
2010	263,440	78,663	124,889	118,896	106,815	26,491
2011	263,354	78,687	111,968	122,449	100,487	30,274
2012	278,145	79,064	116,654	130,010	118,431	34,672
2013	290,237	94,311	118,037	128,303	126,302	34,518
2014	311,138	86,983	129,655	128,612	126,577	34,363
2015	312,655	81,269	135,064	134,674	132,398	37,328

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 18.31-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS
SERVING HAWAII: 2004 TO 2015**

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

Service	2004	2005	2006	2007	2008	2009
All carriers	43	43	42	39	37	39
Transpacific only	32	32	32	30	28	30
Domestic	13	13	14	14	13	12
Foreign	19	19	18	16	15	18
Transpacific and interisland	2	2	2	2	2	1
Interisland only	9	9	8	7	7	8
Passenger carriers	4	4	4	3	3	3
Cargo and mail only	5	5	4	4	4	5
Service	2010	2011	2012	2013	2014	2015
All carriers	33	37	38	36	36	36
Transpacific only	24	26	28	26	27	28
Domestic	11	12	16	14	14	14
Foreign	13	14	12	12	13	14
Transpacific and interisland	2	1	1	1	1	1
Interisland only	7	10	9	9	8	7
Passenger carriers	4	6	6	6	5	4
Cargo and mail only	3	4	3	3	3	3

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

**Table 18.32-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 2013 TO 2015**

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

Airport	2013	2014 1/	2015
State of Hawaii	10,896,815	11,264,105	11,912,851
Honolulu International	7,789,317	7,901,488	8,118,416
Kahului	1,843,928	1,975,832	2,265,402
Kona International	614,714	686,553	808,981
Hilo International	48,588	46,056	44,540
Lihu'e	600,268	654,176	675,512
Domestic	7,263,563	7,594,598	8,203,127
International	3,633,252	3,669,507	3,709,724

1/ Revised from previous *Data Book*.

Source: Hawaii Tourism Authority, Tourism Research, *Monthly Visitors Statistics December 2014* and Hawaii Tourism Authority, Tourism Research, *Monthly Visitor Statistics, December 2015*
<http://www.hawaiitourismauthority.org/index.cfm?page=tourism_research&level1=tourism_research>
accessed July 6, 2016.

Table 18.33-- 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. 31	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 18.34-- SELECTED STATISTICS FOR HAWAIIAN
AIRLINES: 2007 TO 2010**

Subject	2007	2008	2009	2010
Operating aircraft (year-end)	29	32	33	(NA)
Employees (full-time equivalents)	3,105	3,190	3,600	3,600
Aircraft departures (thousands) 1/	57	65	74	(NA)
Passengers enplaned (millions) 2/	7.1	7.8	8.3	8.4
Revenue passenger miles (billions) 2/	7.9	7.8	8.1	8.7
Cargo revenue ton miles (millions) 1/	70.0	76.7	75.0	84.0

NA Not available.

1/ All services.

2/ Scheduled services only.

Source: Airlines for America, *Economic Report* (annual) <<http://www.airlines.org/Pages/A4A-Economic-Reports-of-the-U.S.-Airline-Industry.aspx>> accessed June 18, 2013.

Table 18.35-- RANK OF HAWAII LOCATIONS AMONG THE TOP DOMESTIC AIRLINE MARKETS: 2007 TO 2010

Rank	Origin or destination	Daily Passengers (Average, Each Way)	Average One-Way Ticket Price 1/
2007			
7	Honolulu - Kahului	2,660	35.38
22	Honolulu - Lihue	1,847	35.70
26	Honolulu - Kona	1,771	37.40
29	Honolulu - Hilo	1,694	38.20
34	Honolulu - Los Angeles	1,615	195.14
2008			
11	Honolulu - Kahului	2,091	53.46
30	Honolulu - Lihue	1,497	54.57
32	Honolulu - Kona	1,463	61.24
36	Honolulu - Los Angeles	1,449	231.83
2009			
30	Honolulu - Los Angeles	1,446	214.69
2010			
11	Honolulu - Maui	1,895	59.89

1/ Includes government-imposed taxes and fees.

Source: Airlines for America, *Economic Report* (annual) <<http://www.airlines.org/Pages/A4A-Economic-Reports-of-the-U.S.-Airline-Industry.aspx>> accessed June 18, 2013.

**Table 18.36-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1988 TO 2015**

[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
2009	7,707,730	7,725,872	9,004	7,420,174
2010	8,352,599	8,358,377	3,275	6,882,052
2011	8,503,087	8,428,828	45,913	6,658,445
2012	9,178,412	9,190,908	15,578	7,018,163
2013	9,294,068	9,283,476	230,494	7,122,158
2014	9,457,823	9,453,566	233,302	6,982,281
2015	9,901,345	9,908,484	230,725	7,071,105

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

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

Table 18.37-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2014

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
OVERSEAS						
Total	9,453,566	9,457,823	144,028	215,251	23,116	54,809
Honolulu	6,545,450	6,537,558	139,395	204,497	21,133	47,407
Kahului	1,703,015	1,711,253	1,363	8,529	677	3,254
Kona 2/	603,049	606,754	3,240	1,455	1,306	4,149
Lihue	562,858	564,293	27	768	-	-
Hilo	39,194	37,965	3	1	-	-
INTERISLAND						
Total	6,982,281	6,982,281	70,211	70,211	19,124	19,124
Honolulu	3,133,439	3,125,446	45,561	23,945	14,092	5,031
Kahului	1,413,773	1,418,034	5,097	14,307	1,820	4,813
Kona 2/	839,698	830,215	4,450	9,389	957	2,056
Lihue	797,884	796,410	4,889	10,508	837	2,733
Hilo	612,449	626,554	9,689	9,373	1,179	3,270
Molokai	95,159	98,091	249	762	-	12
Lanai	52,271	51,362	50	816	-	-
Kapalua	23,461	23,173	202	1,011	-	-
Waimea-Kohala	5,198	4,846	-	-	240	1,208
Kalaupapa	5,146	4,471	24	101	-	-
Kalaelo	2,100	1,979	-	-	-	-
Hana	1,703	1,700	-	-	-	-

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

2/ Formerly Keahole Airport.

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

Table 18.38-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2015

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
OVERSEAS						
Total	9,908,484	9,901,345	140,234	213,857	25,617	61,432
Honolulu	6,712,804	6,706,378	136,283	202,265	23,358	53,366
Kahului	1,900,226	1,896,426	1,229	9,477	690	3,476
Kona 2/	681,158	685,235	2,682	1,330	1,570	4,590
Lihue	578,281	579,668	36	784	-	-
Hilo	36,015	33,638	4	1	-	-
INTERISLAND						
Total	7,071,105	7,071,105	75,925	75,925	21,405	21,405
Honolulu	3,115,387	3,102,204	49,354	25,499	16,301	5,099
Kahului	1,436,763	1,445,357	6,080	14,432	1,818	5,545
Kona 2/	857,618	846,761	4,483	11,069	902	2,332
Lihue	830,783	832,266	5,594	11,781	817	3,161
Hilo	620,174	634,769	9,928	10,288	1,217	3,830
Molokai	119,981	122,176	230	825	-	-
Lanai	40,123	38,515	48	837	-	-
Kapalua	31,186	31,042	191	1,102	-	-
Waimea-Kohala	5,237	5,018	-	-	350	1,438
Kalaupapa	6,408	5,889	18	92	-	-
Kalaeloa	5,477	5,250	-	-	-	-
Hana	1,968	1,858	-	-	-	-

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

2/ Formerly Keahole Airport.

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

Table 18.39-- AIR CARGO AND AIRMAIL: 1989 TO 2015

[In thousands of pounds]

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
2009	222,112	373,800	51,720	111,637	120,804	32,354
2010	253,571	394,315	54,643	158,671	132,666	35,945
2011	231,234	367,534	42,326	95,390	130,115	29,554
2012	282,198	390,037	38,920	98,617	129,929	24,605
2013	267,976	404,957	36,199	90,771	138,963	33,768
2014	288,057	430,502	46,232	109,619	140,422	38,248
2015	280,468	427,713	51,234	122,864	151,851	42,809

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

**Table 18.40-- NON-STOP FLIGHTS TO DEPART STATE OF HAWAII,
BY DESTINATION: JULY 2015**

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

Destination	Flights during month	Destination	Flights during month
Transpacific	4,660	Japan	
U.S.	3,597	Fukuoka	26
West		Nagoya	55
Anchorage	21	Osaka	93
Denver	40	Sendai	13
Las Vegas	93	Tokyo - Haneda	93
Los Angeles	1,262	Tokyo - Narita	291
Oakland	194	Other Asia	
Phoenix	266	Beijing	32
Portland	121	Seoul	78
Sacramento	62	Shanghai	27
Salt Lake City	31	Taipei	9
San Diego	150	Oceania	
San Francisco	490	Auckland	36
San Jose	165	Brisbane	29
Seattle	367	Melbourne	13
East		Sydney	77
Atlanta	30	Other	
Chicago	53	Apia	5
Dallas / Fort Worth	128	Christmas Island	4
Houston	31	Guam	31
New York	31	Majuro	14
Newark	31	Manila	22
Washington, D.C.	31	Nadi	4
Canada		Pago Pago	14
Vancouver	93	Papeete	4

Source: Diio - Mi[®], Hawai'i Tourism Authority, Tourism Research.

**Table 18.41-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY
HAWAIIAN AIRLINES: 2011 TO 2015**

[As of July 1. Includes all taxes]

Category	2011	2012	2013	2014	2015
Regular fare	191.20	191.30	191.40	185.00	187.00
Lowest capacity-controlled fare	90.20	95.30	85.10	68.70	69.40

Source: Hawaiian Airlines, records.

Table 18.42-- ANNUAL AVERAGE ROUND TRIP AIR FARES BETWEEN HONOLULU AND SELECTED DESTINATIONS: 2002 TO 2015

[Annual average, origin and destination round-trip base airfares in dollars, includes all airlines, includes all classes, excludes taxes and fees]

Year	Los Angeles	San Francisco	Las Vegas	Portland, Oregon	Seattle	Dallas/Fort Worth	Chicago
2002 1/	386	399	385	401	460	460	511
2003 1/	348	346	380	415	431	445	493
2004 1/	364	379	410	421	428	514	500
2005 1/	373	375	406	402	438	553	546
2006 1/	374	378	425	434	466	602	590
2007 1/	398	390	430	404	421	601	602
2008 1/	480	485	509	451	456	676	676
2009 1/	444	427	449	390	396	642	657
2010 1/	433	421	449	399	410	673	659
2011 1/	511	494	468	428	479	777	703
2012 1/	515	475	479	490	514	779	759
2013 1/	537	532	503	477	496	777	817
2014 1/	543	564	514	475	524	851	868
2015	542	545	531	459	495	846	874

1/ Revised from previous *Data Book*.

Source: United States Department of Transportation, Origin and Destination data from Diio - Mi[®].

Table 18.43-- STATE COMMERCIAL HARBORS: 2015

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	1/ 2,749	2/ 122	2/ 906
Kawaihae	40	35	1,500	1,450	1,627	10	693
Maui							
Kahului	40	35	2,400	2,050	3,319	44	1,401
Molokai							
Kaunakakai	23	23	1,500	600	691	7.4	125
Lanai							
Kaunapali	60	30-50	800	500	400	-	100
Oahu							
Honolulu	} 45	40	{ 3,600	1,520	} 31,087	1,208	9,030
Main							
Kapalama							
Kalaheo	} 42	38	2,300	1,800	2,990	36	1,838
Barbers Point							
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

1/ Construction of Hilo Pier 4 (602 feet long) continuing through 2015.

2/ In 2015 Hilo Harbor, Pier 1 will have 40% of it's shed demolished.

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

Table 18.44-- HARBOR DEPTHS: 2014

[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 2014, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wcsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016.

**Table 18.45-- SMALL CRAFT MOORING FACILITIES,
BY ISLAND: DECEMBER 31, 2015**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,838	1,672	214	182	1/ 539+	444
Hawaii	378	345	30	21	1/ 100+	94
Maui	188	187	-	-	150	105
Oahu	1,147	1,016	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:
APRIL 2011**

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

Island	Number of aids to navigation			Light-houses	Greatest nominal range (naut. miles)	Highest above sea level (feet)	Highest Structure Height (feet)
	By control						
	Total	Federal	Other 1/				
Total	548	317	231	21	2/ 25	2/ 931	3/ 153
Hawaii	65	52	13	8	24	156	153
Maui	75	34	41	2	10	161	40
Molokini	1	1	-	-	21	186	138
Kahoolawe	1	1	-	-	7	120	20
Lanai	16	8	8	1	8	91	37
Molokai	19	10	9	1	21	321	8
Oahu	242	156	86	5	25	931	25
Kauai	45	28	17	4	24	174	10
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	19	19	-	-	4	51	51
At sea	64	7	57	-	-	-	-

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

2/ Kaena Point Light.

3/ Cape Kumukahi Light.

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

**Table 18.47-- UNDOCUMENTED VESSEL REGISTRATION:
DECEMBER 31, 2015**

Subject	Number	Subject	Number
Registered vessels	11,230	Type of vessel	
Length		Aux. powered sailing vessel	921
Under 16 feet	3,476	Cabin motorboat	2,106
16 to less than 26 feet	5,978	Open motorboat	4,632
26 to less than 40 feet	1,585	Runabout	1,668
40 to 65 feet	183	Sail only	512
Over 65 feet	8	Houseboat	2
Hull material		Motor vessel over 65 feet in length	10
Aluminum	388	Thrill craft	882
Fiberglass / plastic	10,096	Other	497
Rubber / fabric	339	Uses	
Wood	309	Pleasure	10,428
Other	82	Commercial fishing	149
Steel	16	Charter fishing	8
Propulsion		Commercial passenger	193
Inboard	2,691	Other commercial	75
Outboard	4,735	Livery	49
Inboard / outboard	1,421	Dealer	6
Sail / inboard	569	Manufacturer	2
Sail / outboard	403	Youth group - fee exempt	76
Sail only	386	Government - fee exempt	228
Manual	55	Other	16
Other	53	Island where vessel is kept	
Waterjet	917	Hawaii	1,994
Mooring location		Kauai	1,206
Moored on water	2,540	Lanai	45
Moored on land	8,690	Maui	1,160
		Molokai	149
		Oahu	6,676

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:
1998 TO 2015**

[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]

Year	Number of vessels	Year	Number of vessels
1998	15,138	2007	15,094
1999	15,481	2008	16,744
2000	14,874	2009	15,709
2001	14,273	2010	14,847
2002	15,445	2011	14,073
2003	15,587	2012	13,328
2004	17,130	2013	13,928
2005	15,302	2014	12,034
2006	15,015	2015	11,230

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) and records.

Table 18.49-- BOATING ACCIDENTS: 1991 TO 2015

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
2009	31	8	8	-	34	31.0
2010	21	4	4	3	21	(NA)
2011	28	6	6	1	32	55.4
2012	32	5	5	7	35	242.9
2013	18	4	4	7	19	217.2
2014	12	3	3	3	12	7.5
2015	15	5	2	7	16	165.0

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) and records.

Table 18.50-- VESSEL ARRIVALS, BY DRAFT: 2013 AND 2014

[Excludes domestic fishing craft]

Harbor	2013			2014		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	570	394	176	701	484	217
Kawaihae	353	339	14	554	475	79
Kahului	688	568	120	1,033	851	182
Barbers Point	978	862	116	1,033	902	131
Honolulu	2,401	1,785	616	3,292	2,457	835
Nawiliwili	488	347	141	676	488	188
Kalaupapa	1	1	-	-	-	-
Kaunakakai	122	122	-	122	122	-
Port Allen	3	3	-	20	20	-
Pearl Harbor 1/	-	-	-	60	60	-

1/ 31 feet and less

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2013, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<http://www.navigationdatacenter.us/wcsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016; *Waterborne Commerce of the United States Calendar Year 2014, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<http://www.navigationdatacenter.us/wcsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016.

Table 18.51-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1985 TO 2015

[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
2009 1/	931	6,516,235	2,512	2,237,140
2010 1/	896	6,529,057	2,264	2,233,594
2011 1/ 2/	884	6,487,533	2,390	3,220,416
2012 1/ 2/	861	6,781,058	2,316	3,162,839
2013 1/ 2/	729	7,454,768	1,923	3,333,040
2014 1/ 2/	(NA)	3/ 7,333,941	(NA)	3/ 3,845,180
2015 1/ 2/	(NA)	7,267,137	(NA)	3,793,661

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.

2/ Increase in cargo volume for inter-island due to new tariff structure effective March 2010. Cargo volume has been adjusted to pre-March 2010 tariff structure.

3/ Revised from previous *Data Book*.

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

**Table 18.52-- CRUISE SHIP PASSENGER ARRIVALS AND DEPARTURES,
FOR HONOLULU HARBOR: 2010 TO 2015**

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

Type of passenger	2010	2011 1/	2012	2013	2014 1/	2015
In	213,304	223,005	240,245	176,996	196,984	172,382
Out	213,468	227,166	269,359	282,070	274,462	236,400

1/ Revised from previous year *Data Book*.

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

**Table 18.53-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1993 TO 2014**

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

Year	Hilo	Kawaihae	Kahului	Barbers Point	Honolulu	Nawiliwili
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	6,658	13,723	938
1999	1,701	1,090	3,513	8,707	12,259	1,348
2000	1,651	1,310	3,477	6,778	15,501	1,581
2001	1,680	1,378	3,695	6,079	16,562	1,478
2002	1,765	1,645	3,458	5,990	16,636	1,619
2003	1,850	1,801	3,778	5,930	17,836	1,721
2004	1,850	2,277	3,901	6,086	19,085	1,757
2005	1,996	2,217	4,132	6,344	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
2008	2,068	2,063	3,958	10,137	14,006	1,680
2009	1,088	1,112	2,139	9,670	9,161	951
2010	1,135	1,050	2,114	9,171	8,903	877
2011	1,984	1,811	3,504	9,800	12,658	1,667
2012	1,968	1,837	4,711	10,046	14,321	1,947
2013	2,062	1,887	3,669	8,671	14,274	1,710
2014	2,188	1,836	3,739	10,058	14,613	1,874

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2014, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wcsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016 and other annuals.

**Table 18.54-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,
FOR SPECIFIED HARBORS: 2013**

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

Category	Hilo	Kawaihae	Kahului	Barbers Point	Honolulu	Nawiliwili
All freight traffic	2,062	1,887	3,669	8,671	14,274	1,710
Foreign						
Inbound	19	-	12	6,210	1,171	17
Outbound	-	11	12	235	190	-
Canadian						
Inbound	-	-	-	366	10	-
Outbound	-	-	-	-	-	-
Domestic						
Coastwise	2,043	1,876	3,645	1,860	12,903	1,693
Receipts	1,350	1,177	2,290	458	7,029	1,155
Shipments	693	699	1,355	1,385	5,874	538
Internal, inbound, upbound	-	-	-	17	-	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2013, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wsc/webpub13/webpubpart-4.htm>> accessed July 8, 2016.

**Table 18.55-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,
FOR SPECIFIED HARBORS: 2014**

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

Category	Hilo	Kawaihae	Kahului	Barbers Point	Honolulu	Nawiliwili
All freight traffic	2,188	1,836	3,739	10,058	14,613	1,874
Foreign						
Inbound	18	-	17	5,688	811	12
Outbound	-	-	-	853	228	-
Canadian						
Inbound	-	-	-	502	89	-
Outbound	-	-	-	4	2	-
Domestic						
Coastwise	2,170	1,836	3,721	3,011	13,483	1,862
Receipts	1,439	1,156	2,404	1,796	7,243	1,241
Shipments	731	680	1,317	1,206	6,240	618
Internal, inbound, upbound	-	-	-	10	-	3

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2014, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2013**

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

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Hilo	2,062	19	-	-	-	2,043	1,350	693	-
Petroleum and petroleum products	429	19	-	-	-	411	411	-	-
Primary manufactured goods	33	-	-	-	-	33	27	6	-
Food and farm products	37	-	-	-	-	37	18	18	-
Manufactured equipment, machinery and products	1,534	(2/)	-	-	-	1,534	876	658	-
Kawaihae	1,887	-	11	-	-	1,876	1,177	699	-
Petroleum and petroleum products	1	-	-	-	-	1	1	-	-
Primary manufactured goods	43	-	-	-	-	43	40	3	-
Food and farm products	105	-	-	-	-	105	72	34	-
Manufactured equipment, machinery and products	1,687	-	-	-	-	1,687	1,042	646	-
Kahului	3,669	12	12	-	-	3,645	2,290	1,355	-
Petroleum and petroleum products	417	12	-	-	-	405	405	1	-
Primary manufactured goods	60	-	-	-	-	60	54	5	-
Food and farm products	287	-	11	-	-	276	106	170	-
Manufactured equipment, machinery and products	2,825	-	-	-	-	2,825	1,693	1,133	-
Barbers Point	8,671	6,210	235	366	-	1,860	458	1,385	17
Petroleum and petroleum products	6,973	5,203	141	11	-	1,618	314	1,287	17
Primary manufactured goods	417	300	-	-	-	116	30	87	-
Food and farm products	(2/)	(2/)	-	-	-	-	-	-	-
Manufactured equipment, machinery and products	48	(2/)	-	-	-	48	48	-	-
Honolulu	14,274	1,171	190	10	-	12,903	7,029	5,874	-
Petroleum and petroleum products	1,412	944	92	-	-	377	339	38	-
Primary manufactured goods	374	31	25	-	-	318	229	89	-
Food and farm products	1,597	54	22	10	-	1,510	1,078	432	-
Manufactured equipment, machinery and products	10,308	74	7	-	-	10,226	5,019	5,208	-

Continued on next page.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2013 -- Con.**

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Nawiliwili	1,710	17	-	-	-	1,693	1,155	538	-
Petroleum and petroleum products	94	17	-	-	-	78	75	2	-
Primary manufactured goods	33	-	-	-	-	33	29	4	-
Food and farm products	34	-	-	-	-	34	30	4	-
Manufactured equipment, machinery and products	1,536	-	-	-	-	1,536	1,014	522	-

1/ Includes internal, inbound and upbound.

2/ Figure rounds down to zero.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2013, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wsc/webpub13/webpubpart-4.htm>> accessed July 8, 2016.

**Table 18.57-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2014**

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

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Hilo	2,188	18	-	-	-	2,170	1,439	731	-
Petroleum and petroleum products	390	18	-	-	-	372	368	4	-
Primary manufactured goods	31	-	-	-	-	31	29	2	-
Food and farm products	33	-	-	-	-	33	17	17	-
Manufactured equipment, machinery and products	1,701	-	-	-	-	1,701	1,001	700	-
Kawaihae	1,836	-	-	-	-	1,836	1,156	680	-
Petroleum and petroleum products	5	-	-	-	-	5	5	(2/)	-
Primary manufactured goods	53	-	-	-	-	53	50	3	-
Food and farm products	117	-	-	-	-	117	73	43	-
Manufactured equipment, machinery and products	1,605	-	-	-	-	1,605	996	609	-
Kahului	3,739	17	-	-	-	3,721	2,404	1,317	-
Petroleum and petroleum products	468	17	-	-	-	451	448	3	-
Primary manufactured goods	60	-	-	-	-	60	55	5	-
Food and farm products	201	-	-	-	-	201	105	95	-
Manufactured equipment, machinery and products	2,951	-	-	-	-	2,951	1,752	1,199	-
Barbers Point	10,058	5,688	853	502	4	3,011	1,796	1,206	10
Petroleum and petroleum products	8,194	4,483	748	232	4	2,727	1,619	1,098	10
Primary manufactured goods	471	374	-	-	-	97	-	97	-
Food and farm products	(2/)	(2/)	-	-	-	-	-	-	-
Manufactured equipment, machinery and products	150	-	-	-	-	150	150	-	-
Honolulu	14,613	811	228	89	2	13,483	7,243	6,240	-
Petroleum and petroleum products	1,288	595	127	61	2	503	384	119	-
Primary manufactured goods	377	37	23	-	-	318	233	85	-
Food and farm products	1,627	53	23	12	(2/)	1,539	1,114	426	-
Manufactured equipment, machinery and products	10,759	96	8	-	-	10,655	5,202	5,454	-

Continued on next page.

**Table 18.57-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2014 -- Con.**

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Nawiliwili	1,874	12	-	-	-	1,862	1,241	618	3
Petroleum and petroleum products	114	12	-	-	-	102	96	3	3
Primary manufactured goods	34	-	-	-	-	34	30	4	-
Food and farm products	33	-	-	-	-	33	28	5	-
Manufactured equipment, machinery and products	1,668	-	-	-	-	1,668	1,069	600	-

1/ Includes internal, inbound and upbound.

2/ Figure rounds down to zero.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2014, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<http://www.navigationdatacenter.us/wsc/webpub14/webpubpart-4.htm>> accessed July 8, 2016.

Table 18.58-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2014

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS)]

NAICS code	Kind of business	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	982	26,320	1,238,694	47,064
481	Air transportation	80	8,549	495,941	58,015
4811	Scheduled air transportation	56	8,243	480,508	58,293
4812	Nonscheduled air transportation	24	306	15,433	50,503
483	Water transportation	22	1,760	114,496	65,067
484	Truck transportation	198	3,275	139,052	42,465
4841	General freight trucking	96	1,707	75,468	44,215
4842	Specialized freight trucking	102	1,568	63,584	40,560
485	Transit & ground passenger transp.	132	2,677	64,202	23,982
4854	School & employee bus transp.	19	1,040	24,060	23,135
4859	Other ground passenger transp.	48	1,067	24,214	22,704
487	Scenic & sightseeing transportation	225	4,026	132,026	32,792
4871	Scenic & sightseeing transp., land	48	1,644	52,380	31,863
4872	Scenic & sightseeing transp., water	153	1,925	56,596	29,398
4879	Scenic & sightseeing transp., other	24	457	23,050	50,428
488	Support activities for transportation	212	4,065	206,083	50,696
4881	Support activities for air transp.	54	2,052	63,787	31,088
4883	Support activities for water transp.	35	1,150	110,627	96,225
4885	Freight transportation arrangement	69	433	20,942	48,382
491	Postal service	4	8	192	23,707
492	Couriers & messengers	69	1,371	59,035	43,070
4921	Couriers and express delivery services	42	1,205	54,142	44,919
4922	Local messengers and local delivery	27	165	4,893	29,592
493	Warehousing & storage	43	590	27,666	46,905

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2014*, table 10 <<http://www.bls.gov/cew/cewbultn14.htm>> accessed July 6, 2016.

**Table 18.59-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN
AND DESTINATION: 2012**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	22,156	25,730	(1/)
Destination			
Hawaii	20,721	24,793	485
California	(1/)	(1/)	(1/)
Oregon	13	(1/)	(1/)
Washington	35	(1/)	(1/)
Mode of transportation			
Single modes	20,259	25,112	(1/)
Truck	11,256	14,514	199
Water	602	406	117
Air (includes truck and air)	1,027	150	81
Pipeline	7,366	10,030	(1/)
Multiple modes	1,896	618	272
Parcel, U.S. Postal Service or courier	934	17	22
Truck and water	957	597	230
Other multiple modes	(1/)	(1/)	(1/)
Distance shipped (miles)			
Less than 50	18,373	23,572	270
50 to 99	781	488	55
100 to 249	1,533	702	147
250 to 499	33	(1/)	(1/)
500 to 2,000	-	-	-
More than 2,000	(1/)	(1/)	(1/)
Commodity			
Agricultural products	673	276	55
Meat, poultry, fish, seafood, and their preparations	652	137	(1/)
Other prepared foodstuffs and fats and oils	1,445	823	65
Alcoholic beverages and denatured alcohol	663	169	10
Gasoline, aviation turbine fuel and ethanol	4,261	5,337	94
Fuel oils	4,871	6,836	(1/)
Other coal and petroleum products, NEC	627	686	8
Pharmaceutical products	1,508	(1/)	7
Wood products	235	118	5
Textiles, leather, and articles of textiles or leather	829	23	7
Machinery	395	21	1
Electronic and other electrical equipment and components and office equipment	468	38	(1/)

1/ Withheld because estimate did not meet publication standards.

Source: U.S. Census Bureau, 2012 *Economic Census*, 2012 *Commodity Flow Survey*, various tables.

<<http://www.census.gov/econ/cfs/>> accessed June 26, 2015.