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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: 2017**

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	Kanoiehua 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: 2017 -- 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)	10.00
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, network database accessed on June 2018.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 2015 TO 2017

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
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	-	-	-	-
2016				
State total	4,468.56	88.49	4,206.95	173.11
Hawaii	1,509.94	-	1,449.94	60.00
Maui	648.33	-	591.63	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,684.04	88.49	1,587.63	7.92
Kauai	441.93	-	419.44	22.49
Niihau	-	-	-	-
2017				
State total	4,476.27	88.49	4,214.66	173.11
Hawaii	1,510.44	-	1,450.44	60.00
Maui	649.81	-	593.11	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,689.77	88.49	1,593.35	7.92
Kauai	441.93	-	419.44	22.49
Niihau	-	-	-	-

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

Table 18.03-- HIGHWAY BRIDGES, BY ISLAND: DECEMBER 31, 2017

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: 2012 TO 2017

Area	Number of bridges	Deficient and obsolete					
		Total		Structurally deficient 1/		Functionally obsolete 2/	
		Number	Percent	Number	Percent	Number	Percent
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
2016							
U.S.	614,387	(NA)	(NA)	56,007	9.1	(NA)	(NA)
Hawaii	1,132	(NA)	(NA)	64	5.7	(NA)	(NA)
2017							
U.S.	615,002	(NA)	(NA)	54,560	8.9	(NA)	(NA)
Hawaii	1,135	(NA)	(NA)	66	5.8	(NA)	(NA)

NA Not available.

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 June 20, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2017

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:
2007 TO 2017**

[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
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
2016	1,261,557	1,232,731	1,000,684	119	2,377
2017	1,288,554	1,259,544	1,016,088	114	2,344
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor-scooters 2/	Trailers and semi-trailers
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
2016	194,043	1,454	2,972	31,082	28,826
2017	197,005	1,519	3,162	39,312	29,010

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 2017**

[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
2016	1,232,731	776,653	196,647	81,751	177,680
2017	1,259,544	791,739	202,744	84,259	180,802

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

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,
BY COUNTY: 2016**

[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	1,261,557	790,220	204,541	85,195	181,601
Motor vehicles	1,232,731	776,653	196,647	81,751	177,680
Passenger vehicles 1/	1,000,684	652,013	150,990	57,825	139,856
Ambulances	119	59	23	14	23
Buses	2,377	1,798	302	85	192
Trucks 1/	194,043	99,160	40,068	21,642	33,173
Truck tractors	1,454	696	201	475	82
Truck cranes	2,972	2,640	161	85	86
Motorcycles, motorscooters 2/	31,082	20,287	4,902	1,625	4,268
Trailers and semi-trailers	28,826	13,567	7,894	3,444	3,921

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 TYPE OF VEHICLE,
BY COUNTY: 2017**

[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	1,288,554	805,254	210,767	87,760	184,773
Motor vehicles	1,259,544	791,739	202,744	84,259	180,802
Passenger vehicles 1/	1,016,088	659,474	155,353	59,836	141,425
Ambulances	114	56	22	15	21
Buses	2,344	1,758	336	89	161
Trucks 1/	197,005	100,950	41,096	21,389	33,570
Truck tractors	1,519	711	209	517	82
Truck cranes	3,162	2,832	164	77	89
Motorcycles, motorscooters 2/	39,312	25,958	5,564	2,336	5,454
Trailers and semi-trailers	29,010	13,515	8,023	3,501	3,971

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 18.10-- VEHICLE REGISTRATION, BY TAXATION STATUS,
BY COUNTY: 2016**

[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	1,201,649	756,366	191,745	80,126	173,412
Taxable vehicles	1,104,524	665,542	189,103	78,976	170,903
Exempt vehicles	97,125	90,824	2,642	1,150	2,509
Federal government	439	430	6	-	3
State government	6,881	6,874	5	-	2
County government	8,237	5,279	1,131	604	1,223
Fire department	347	61	150	65	71
Police department	1,918	1,313	433	36	136
Consulates	51	49	2	-	-
Disabled veterans	390	89	289	7	5
Military non-resident	67,714	67,424	60	160	70
Farm	126	44	56	1	25
Horseless carriage	58	48	1	9	-
Electric vehicles	5,213	4,024	243	172	774
National Guard	5,751	5,189	266	96	200

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

**Table 18.11-- VEHICLE REGISTRATION, BY TAXATION STATUS,
BY COUNTY: 2017**

[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	1,220,232	765,781	197,180	81,923	175,348
Taxable vehicles	1,121,908	674,137	194,384	80,735	172,652
Exempt vehicles	98,324	91,644	2,796	1,188	2,696
Federal government	432	423	6	-	3
State government	6,998	6,990	6	-	2
County government	8,404	5,406	1,166	583	1,249
Fire department	345	61	148	66	70
Police department	1,863	1,274	411	41	137
Consulates	54	52	2	-	-
Disabled veterans	430	112	303	6	9
Military non-resident	66,954	66,661	62	165	66
Farm	133	48	60	2	23
Horseless carriage	58	49	1	8	-
Electric vehicles	6,791	5,284	359	230	918
National Guard	5,862	5,284	272	87	219

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

**Table 18.12-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTY: 2016**

[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	455,868	69,818	309,169	23,214	53,612
None	38,044	3,354	31,138	1,208	2,344
1	152,591	23,221	105,924	6,459	16,964
2	160,875	26,758	105,594	7,912	20,606
3	64,578	11,801	39,300	5,100	8,377
4 or more	39,780	4,684	27,213	2,535	5,321

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates
<<https://www.census.gov/programs-surveys/acs/>> accessed July 9, 2018.

Table 18.13-- 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 18.14-- NEW RETAIL LIGHT VEHICLE REGISTRATIONS:
1989 TO 2017**

Year	Number	Year	Number	Year	Number
1989	57,456	1999	45,054	2009	32,878
1990	54,544	2000	51,500	2010	32,649
1991	47,783	2001	51,388	2011	35,576
1992	44,865	2002	53,314	2012	42,463
1993	45,249	2003	62,712	2013	48,705
1994	44,175	2004	65,882	2014	54,039
1995	41,083	2005	70,268	2015	57,094
1996	41,480	2006	67,224	2016	58,485
1997	42,487	2007	54,492	2017	59,137
1998	40,673	2008	41,184		

Source: Hawaii Automobile Dealers Association, *HawaiiDealer 2018 First Quarter Edition* and previous editions.

**Table 18.15-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY NAMEPLATE: 2015 TO 2017**

Nameplate	2015	2016	2017
Total	57,094	58,485	59,137
Toyota/Scion	16,109	16,230	15,705
Honda	7,851	8,387	9,018
Nissan	5,957	5,754	5,874
Ford	4,392	4,617	4,194
Kia	2,314	2,293	2,164
Chevrolet	2,280	3,011	3,594
Mazda	1,585	1,497	1,571
Hyundai	1,717	1,518	1,497
BMW	1,633	1,583	1,567
Lexus	1,760	1,773	1,597
Subaru	1,696	1,816	1,824
Jeep	1,416	1,395	1,488
Mercedes	1,352	1,397	1,438
Dodge	1,152	963	780
Acura	714	739	839
Volkswagen	904	753	845
Ram	735	781	729
Audi	490	575	565
GMC	545	658	841
MINI	499	475	420
Infiniti	297	278	371
Cadillac	153	144	178
Chrysler	258	293	286
Porsche	223	227	243
All others	243	1/ 105	195
Volvo	159	151	89
Land Rover	181	196	213
Mitsubishi	118	107	112
Fiat	105	94	112
Buick	148	244	262
Telsa	(NA)	1/ 306	364
Lincoln	72	45	33
Jaguar	36	80	129

NA Not available.

1/ Data revised from previous *Data Book*.

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2018 First Quarter.

**Table 18.16-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY PLACE OF MANUFACTURE: 2015 TO 2017**

Type and place of manufacture	2015	2016	2017
Total	57,094	58,485	59,137
Car	24,828	22,566	21,084
Light truck	32,266	35,919	38,053
Domestic Brands	11,276	12,469	12,763
European Brands	5,695	5,613	5,772
Japanese Brands	36,092	36,584	36,912
Korean Brands	4,031	3,819	3,690

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2018 First Quarter.

**Table 18.17-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTY:
1991 TO 2017**

[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
2016	941,878	629,476	137,450	56,100	118,852
2017	950,481	634,231	139,028	56,519	120,703

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

**Table 18.18-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: 2016 AND 2017**

[As of December 31]

Years of age	Both sexes		Male		Female	
	2016	2017	2016	2017	2016	2017
Total	941,878	950,481	486,383	490,148	455,495	460,333
15 to 19	23,653	24,530	12,429	12,854	11,224	11,676
20 to 24	62,235	61,975	32,589	32,314	29,646	29,661
25 to 29	71,677	72,427	36,784	37,138	34,893	35,289
30 to 34	84,216	83,932	42,854	42,782	41,362	41,150
35 to 39	84,568	85,971	42,944	43,604	41,624	42,367
40 to 44	78,526	78,369	40,106	39,851	38,420	38,518
45 to 49	83,438	82,993	43,129	42,951	40,309	40,042
50 to 54	86,092	83,670	44,470	43,056	41,622	40,614
55 to 59	88,612	88,380	45,578	45,635	43,034	42,745
60 to 64	86,763	87,118	44,685	44,707	42,078	42,411
65 to 69	76,687	78,055	40,163	40,758	36,524	37,297
70 to 74	55,400	59,960	29,321	31,562	26,079	28,398
75 to 79	30,165	32,836	15,817	17,292	14,348	15,544
80 to 84	16,692	16,930	8,448	8,651	8,244	8,279
85 to 89	9,718	9,730	5,008	4,914	4,710	4,816
90 to 94	3,087	3,199	1,809	1,815	1,278	1,384
95 to 99	349	406	249	264	100	142

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

Table 18.19-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1993 TO 2017, AND BY COUNTY, 2016 AND 2017

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/
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	524,642	416	10,173.5	8,409
2015	540,559	480	11,129.7	9,465
2016	531,740	457	11,132.0	9,430
2017	553,656	478	11,350.6	9,415
County: 2016				
Honolulu	319,243	411	6,782.2	8,741
Hawaii	100,947	513	1,910.1	9,710
Kauai	42,995	516	861.9	10,341
Maui	68,556	388	1,577.7	8,926
County: 2017				
Honolulu	325,348	411	6,891.9	8,712
Hawaii	105,396	520	1,966.9	9,702
Kauai	48,795	568	886.2	10,322
Maui	74,117	412	1,605.6	8,926

Continued on next page.

Table 18.19-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1993 TO 2017, AND BY COUNTY, 2016 AND 2017 -- 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.

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

Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2015 TO 2017

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

Site	Route	Milepoint	2015	2016	2017
Oahu					
H-1 west of Kualalalai Pkwy overpass	H-1	3.41	91,600	94,300	92,800
H-1 west of Kaonohi St overpass	H-1	11.74	231,100	240,800	247,700
H-1 at Halawa Stream bridge	H-1	13.54	103,300	109,100	110,500
H-1 at airport off-ramp	H-1	16.22	105,800	96,700	96,900
H-1 west of King St tunnel	H-1	18.77	63,100	66,500	124,050
H-1 at Kalihi interchange	H-1	19.27	170,300	177,900	124,050
H-1 at Kapalama drainage canal bridge	H-1	20.24	186,700	193,400	196,900
H-1 at McCully St overpass	H-1	23.55	137,200	140,600	142,000
H-1 at Manoa-Palolo drainage canal	H-1	24.60	110,100	111,700	112,200
H-2 south of Pineapple Rd overpass	H-2	4.02	95,200	96,800	98,700
H-3 west of North Halawa Valley bridge	H-3	1.28	47,400	48,700	49,100
H-3 west of Kamehaha Hwy interchange	H-3	10.37	26,500	27,100	27,200
Moanalua Freeway west of Kahuapaani St overpass	H-201	0.21	46,200	46,800	47,300
Moanalua Freeway west of Moanalua St bridge	H-201	3.19	104,800	108,500	108,900
Pali Hwy at tunnels	61	5.69	41,900	41,600	42,100
Likelike Hwy north of Valley View Drive	63	2.96	31,600	32,300	31,200
Sand Island Parkway north of Pascule bridge	64	1.41	13,300	12,700	12,800
Kalaniana'ole Hwy east of Ainakoa Ave	72	18.32	82,600	83,900	84,800
Kamehameha Hwy at Wilson Bridge	80	0.01	49,600	32,483	56,500
Kamehameha Hwy 1.6 miles northeast of Johnson Rd	83	30.59	12,300	12,600	12,800
Nimitz Hwy east of Sand Island Access Rd	92	4.04	56,700	56,500	57,200
Farrington Hwy at Makaha bridge #2	93	12.50	18,500	18,900	18,700
Kalaeloa Blvd south of H-1 on-ramp	95	0.27	35,400	36,200	36,900

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Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2015 TO 2017 -- Con.

Site	Route	Milepoint	2015	2016	2017
Oahu con.					
Kamehameha Hwy at Kalauao bridge	99	20.67	51,816	51,816	38,200
Kunia Rd near Kunia Dr	750	4.81	14,400	14,400	13,900
Hawaii					
Volcano Rd near Ikaika St	11	5.29	41,700	43,400	44,300
Volcano Rd at Glenwood Park	11	19.66	6,700	7,100	7,500
Mamalahoa Hwy at states' south Kona baseyard	11	104.14	6,700	6,767	7,300
Queen Kaahumanu Hwy near Hualalai Rd	11	120.77	25,900	25,800	24,700
Hawaii Belt Rd north of Kalaoa bridge	19	8.01	9,800	10,100	10,400
Queen Kaahumanu Hwy near Kaupulehu Dr	19	83.60	13,700	13,700	13,400
Queen Kaahumanu Hwy north of OTEC access Rd	19	93.74	24,400	24,000	24,400
Keaau-Paho Rd south of waste station Rd	130	2.51	28,900	28,900	30,800
Maui					
Honoapiilani Hwy south of Kaanapali Pkwy	30	23.58	42,100	43,300	43,800
Honoapiilani Hwy north of Kahana Kai bridge	30	28.37	15,787	14,819	15,483
Piilani Hwy near Lipoa Pkwy	31	1.47	36,900	34,721	42,400
Hana Hwy near Central Power Plant Rd	36	1.70	41,000	37,525	37,400
Hana Hwy near Baldwin Park	36	6.28	18,700	18,800	18,800
Keolani Pl near Palapala Dr	36A	0.50	15,500	14,400	9,500
Kaleakala Hwy near North Firebreak Rd	37	0.61	31,200	32,000	32,700
North Kihei Hwy near 9th St	310	0.86	16,800	17,100	17,100
Mokulele Hwy near Nakii Rd	311	2.38	32,300	33,400	34,300
Kuihelani Hwy near Mauilani Pkwy	380	1.52	24,500	24,900	25,700

Continued on next page.

**Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED
SURVEY SITES: 2015 TO 2017 -- Con.**

Site	Route	Milepoint	2015	2016	2017
Kauai					
Kaumualii Hwy near Nani St	50	1.51	26,800	25,605	28,400
Kaumualii Hwy at Punee Rd	50	8.35	14,600	14,900	15,200
Kaumualii Hwy near Alawai Rd	50	22.69	11,600	11,100	11,500
Rice St near Mokoī St	51	0.79	14,100	13,400	13,600
Kuhio Hwy near Huilei Rd	56	2.40	15,200	15,500	15,100
Kuhio Hwy northwest of Kolo Rd and Kalamania Rd	56	23.53	14,700	15,000	15,500
Nawiliwili Rd near Kanani St	58	1.44	12,500	11,500	12,200
Akuhuni Rd near Palai St	570	0.31	12,800	13,600	14,200

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

**Table 18.21-- ROADWAY CONGESTION FOR THE HONOLULU
URBANIZED AREA: 2011 TO 2014**

Subject	2011	2012	2013	2014
Population (1,000s)	800	820	835	845
Peak commuters (1,000s) 1/	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 2/				
Total fuel (1,000 gallons)	13,478	13,738	13,951	14,118
Fuel per peak auto commuter (gallons)	25	25	25	26
Annual delay 3/				
Total delay (1,000s of person-hours)	26,417	26,926	27,344	27,672
Delay per peak auto commuter (person-hours) 4/	50	50	50	50
Congestion cost (constant 2014 \$) 5/				
Total cost (\$ million)	619	618	619	616
Cost per peak auto commuter (\$)	1,130	1,128	1,129	1,125

1/ 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.

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

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

4/ 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.

5/ 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 18.22-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1997 TO 2016, AND BY COUNTY, 2015 AND 2016

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal 2/	Injured only	Killed 2/
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	9,531	123	7,476	138
2008	8,247	102	6,427	107
2009	7,377	99	5,784	109
2010	7,944	108	6,444	113
2011	7,457	97	6,584	100
2012 3/	4/ 4,511	115	4/ 3,957	125
2013 3/	4/ 3,708	94	4/ 3,467	102
2014 3/	4/ 4,052	95	4/ 3,555	95
2015 3/	4/ 3,759	85	4/ 3,345	93
2016 3/	22	109	23	120
County: 2015 3/				
Honolulu	4/ 2,304	48	4/ 2,021	48
Hawaii	4/ 491	17	4/ 404	21
Kauai	4/ 386	3	4/ 284	3
Maui	4/ 578	17	4/ 636	21
County: 2016 3/				
Honolulu	7	55	6	59
Hawaii	1	27	-	32
Kauai	-	8	-	8
Maui	14	19	17	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/ Preliminary.

4/ Revised from previous *Data Book*.

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

Table 18.23-- DRIVERS INVOLVED IN FATAL CRASHES AND BLOOD ALCOHOL CONCENTRATION (BAC) OF THE DRIVER: 2014 TO 2016

[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
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
2015, State total	125	90	72	35	28	5	4	30	24
Hawaii	32	25	78	7	22	1	4	6	18
Honolulu	66	49	74	17	26	2	2	15	23
Kauai	4	3	70	1	30	-	-	1	30
Maui	23	13	58	10	42	2	9	8	33
2016, State total	153	113	74	40	26	6	4	34	22
Hawaii	40	32	80	8	20	2	4	6	16
Honolulu	75	56	75	19	25	2	3	17	22
Kauai	11	6	57	5	43	1	9	4	34
Maui	27	19	69	8	31	1	4	7	27

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 10, 2018.

**Table 18.24-- REGISTERED TAXICABS AND BICYCLES, BY ISLAND:
2015 TO 2017**

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	2015	2016	2017	2015	2016	2017
Hawaii	256	266	254	4,864	5,054	5,078
Maui	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lanai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Molokai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oahu	2,479	1,791	(3/)	498,223	526,636	549,895
Kauai 4/	-	-	-	5/ 944	(NA)	(NA)

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 were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially, see SLH 1988, Act 264, sec. 1; the Honolulu County registrations are permanent with no annual renewals. Act 200 of the Hawaii Session Laws of 2016, requires the annual registration and safety inspection of mopeds beginning January 1, 2017.

3/ Taxicabs are no longer inspected by the city, as they are now self-certifying.

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 18.25-- 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 18.26-- MOTOR CARRIER CHARACTERISTICS, BY COUNTY:
2014 TO 2016**

[As of September]

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
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
2016					
State total	1,543	6,225	147,308	4,739	23,013
Hawaii	236	919	22,013	899	3,586
Maui	234	1,241	30,432	828	3,256
Honolulu	965	3,605	83,996	2,490	14,420
Kauai	108	460	10,867	522	1,751

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 18.27-- PUBLIC TRANSIT, FOR OAHU: 1993 TO 2017

[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
2016 5/	543	21,545,265	68,314,175	53,216,236
2017 5/	546	20,999,788	65,276,018	51,441,589

1/ Number of buses refers to number of buses in active fleet and an additional shuttle service.

2/ Estimated number of vehicle miles.

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

4/ Bus strike for 34 days.

5/ As of 2016 all statistics compiled include statistic for an additional shuttle service.

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

**Table 18.28-- BUS FARE CHRONOLOGY, FOR OAHU:
1971 TO 2018**

[As of July 1, 2018. 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
January 1, 2018 6/	2.75	1.25	70.00	35.00

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.

6/ As of October 1, 2017 transfers have been discontinued. Other fares. 1-day pass, adult: \$5.50, youth: \$2.50; Annual pass, adult: \$770.00, youth: \$385.00.

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 1, 2018.

**Table 18.29-- AIRPORTS AND HELIPORTS, BY CONTROL,
BY ISLAND: 2016**

[As of December 31]

Island	Airports 1/				Heliports 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 18.30-- HONOLULU INTERNATIONAL AIRPORT AIRCRAFT OPERATIONS AND ENPLANED PASSENGERS: 2000 TO 2016

[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
2015	242,442	9,483,424	28
2016	244,612	9,668,758	28

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 June 21, 2018.

Table 18.31-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 2015 TO 2017

[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
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
2016					
Honolulu International	305,608	159,799	84,996	44,021	16,792
Kahului	136,654	52,768	63,743	18,156	1,987
Kona International	116,710	27,428	20,864	52,995	15,423
Lihue	129,120	25,717	76,012	22,906	4,485
Hilo International	80,713	15,485	50,617	7,894	6,717
Molokai	44,822	2	38,896	4,546	1,378
Kalaeloa	115,035	21	1,356	94,239	19,419
2017					
Honolulu International	311,857	165,494	94,070	38,496	13,797
Kahului	147,386	55,292	72,084	18,510	1,500
Kona International	113,947	32,182	23,520	51,401	6,844
Lihue	129,572	28,759	77,470	20,630	2,713
Hilo International	91,411	16,527	45,772	23,560	5,552
Molokai	38,622	332	33,349	4,034	907
Kalaeloa	127,883	38	24	107,471	20,350

Source: For 2015, Hawaii State Department of Transportation, Airports Division, records; For 2016 and 2017 Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 20, 2018.

**Table 18.32-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1991 TO 2017**

[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
2016	305,608	80,713	116,710	136,654	129,120	44,822
2017	311,857	91,411	113,947	147,386	129,572	38,622

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

Source: For 1991-2015, Hawaii State Department of Transportation, Airports Division, records; For 2016 and 2017 Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 20, 2018.

**Table 18.33-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS
SERVING HAWAII: 2006 TO 2017**

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

Service	2006	2007	2008	2009	2010	2011
All carriers	42	39	37	39	33	37
Transpacific only	32	30	28	30	24	26
Domestic	14	14	13	12	11	12
Foreign	18	16	15	18	13	14
Transpacific and interisland	2	2	2	1	2	1
Interisland only	8	7	7	8	7	10
Passenger carriers	4	3	3	3	4	6
Cargo and mail only	4	4	4	5	3	4
Service	2012	2013	2014	2015	2016	2017
All carriers	38	36	36	36	35	42
Transpacific only	28	26	27	28	27	35
Domestic	16	14	14	14	13	19
Foreign	12	12	13	14	14	16
Transpacific and interisland	1	1	1	1	1	1
Interisland only	9	9	8	7	7	6
Passenger carriers	6	6	5	4	4	3
Cargo and mail only	3	3	3	3	3	3

Source: Hawaii State Department of Transportation, Airports Division, records;
and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 18.34-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 2015 TO 2017**

[Non-stop flights only]

Airport	2015	2016 1/	2017
State of Hawaii	11,937,726	12,020,545	12,235,608
Honolulu International	8,135,126	8,085,502	8,113,768
Kahului	2,271,354	2,335,214	2,329,750
Kona International	810,479	852,562	984,420
Hilo International	44,540	45,045	48,180
Lihue	676,227	702,222	759,490
Domestic	8,224,564	8,315,458	8,409,740
International	3,713,162	3,705,087	3,825,868

1/ Revised from previous *Data Book*.

Source: Hawaii Tourism Authority, Tourism Research, *Monthly Visitors Statistics December 2016* and Hawaii Tourism Authority, Tourism Research, *Monthly Visitor Statistics, December 2017*
<<https://www.hawaiitourismauthority.org/research/monthly-visitor-statistics/>> accessed June 20, 2018.

Table 18.35-- CIVIL AIRMEN: 2013 TO 2017

[As of December 31]

Item	2013	2014	2015	2016	2017
Estimated active personnel					
Pilots, except instructors	3,150	3,134	3,145	3,126	3,281
Commercial 1/	735	707	694	678	686
Flight instructors	656	661	698	731	738
Nonpilot airmen 2/ 3/	6,700	6,833	7,004	6,773	6,964
Flight attendant	3,653	3,735	3,889	4,115	4,255
Estimated active women personnel					
Pilots, except instructors	322	332	354	357	385
Commercial 1/	78	78	80	71	72
Flight instructors	73	73	77	81	82
Nonpilot airmen 2/ 3/	2,809	2,865	2,990	3,126	3,224
Flight attendant	2,614	2,664	2,781	2,956	3,060

1/ Includes those with an airplane and/or a helicopter and or glider certificate. Includes pilots under the "Rotorcraft (only)" and "Glider (only)" class certificates.

2/ Includes ground instructors, flight engineers, mechanics, repairmen, parachute riggers, dispatchers, flight navigators and flight attendants.

3/ Data for dispatchers, mechanics, repairmen, parachute riggers and ground instructors represent total ratings issued to date. These ratings retain their validity and have been limited to those held by person under 70 years of age.

Source: U.S. Department of Transportation, Federal Aviation Administration, *U.S. Civil Airmen Statistics* (annual) <https://www.faa.gov/data_research/aviation_data_statistics/civil_airmen_statistics/> accessed on June 21, 2018.

**Table 18.36-- 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 18.37-- 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 18.38-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1988 TO 2017**

[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
2016	10,223,372	10,241,737	240,053	7,198,710
2017	10,794,436	10,785,967	125,935	7,217,969

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

Source: For Data 1988-2016, Hawaii State Department of Transportation, Airports Division, records and for 2017, Hawaii State Department of Business, Economic, Development & Tourism, Airline data compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database <https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0> accessed on June 22, 2018.

Table 18.39-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2017

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
OVERSEAS						
Total	10,785,967	10,794,436	214,896	349,198	6,466	8,810
Honolulu	7,197,718	7,180,498	207,650	328,943	6,454	8,808
Kahului	2,072,007	2,075,936	1,400	9,691	12	-
Kona 2/	847,937	859,265	5,808	9,903	-	1
Lihue	632,257	644,773	34	656	-	-
Hilo	36,048	33,964	4	4	-	-
INTERISLAND						
Total	7,217,969	7,217,969	95,490	95,490	16,948	16,948
Honolulu	3,181,062	3,178,844	61,135	25,694	14,022	2,869
Kahului	1,411,198	1,424,625	8,478	25,211	1,741	6,277
Kona 2/	944,987	929,256	11,125	18,718	1	-
Lihue	894,305	885,013	5,862	12,420	46	3,465
Hilo	616,210	627,635	8,419	11,882	1,139	4,337
Molokai	84,139	87,488	156	353	-	-
Lanai	37,864	37,492	127	144	-	-
Kapalua	35,760	35,729	188	1,069	-	-
Waimea-Kohala	4,407	4,322	-	-	-	-
Kalaupapa	5,598	5,354	-	-	-	-
Kalaeloa	-	-	-	-	-	-
Hana	2,439	2,211	-	-	-	-

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

2/ Formerly Keahole Airport.

Source: Hawaii State Department of Business, Economic, Development & Tourism, Airline compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database

<https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0>

accessed on June 22, 2018.

Table 18.40-- AIR CARGO AND AIRMAIL: 1989 TO 2017

[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
2016	227,922	382,116	42,605	115,608	150,680	38,527
2017 1/	429,791	698,396	12,932	17,619	190,980	33,897

1/ Data for 2017 includes commercial airlines and cargo airlines, data might not be comparable to previous years as mail and cargo data might be categorized differently.

Source: For Data 1989-2016, Hawaii State Department of Transportation, Airports Division, records and for 2017, Hawaii State Department of Business, Economic, Development & Tourism, Airline data compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database <https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0> accessed on June 22, 2018.

**Table 18.41-- NON-STOP FLIGHTS TO DEPART STATE OF HAWAII,
BY DESTINATION: JULY 2017**

[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	5,011	Japan	
U.S.	3,785	Fukuoka	31
West		Nagoya	62
Anchorage	31	Osaka	130
Denver	98	Sapporo	13
Las Vegas	88	Tokyo - Haneda	93
Los Angeles	1,301	Tokyo - Narita	396
Oakland	199	Other Asia	
Phoenix	250	Beijing	27
Portland	119	Seoul	99
Sacramento	62	Shanghai	27
Salt Lake City	31	Taipei	9
San Diego	142	Oceania	
San Francisco	537	Auckland	38
San Jose	155	Brisbane	13
Seattle	395	Melbourne	18
East		Sydney	80
Atlanta	31	Other	
Chicago	36	Apia	4
Dallas / Fort Worth	160	Christmas Island	4
Houston	31	Guam	31
Minneapolis	26	Majuro	13
New York	31	Manila	22
Newark	31	Nadi	5
Washington, D.C.	31	Pago Pago	13
Canada		Papeete	5
Vancouver	93		

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

**Table 18.42-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY
HAWAIIAN AIRLINES: 2013 TO 2017**

[As of July 1. Includes all taxes]

Category	2013	2014	2015	2016	2017
Regular fare	191.40	185.00	187.00	182.40	189.40
Lowest capacity-controlled fare	85.10	68.70	69.40	76.40	79.40

Source: Hawaiian Airlines, records.

Table 18.43-- ANNUAL AVERAGE ROUND TRIP AIRFARES BETWEEN HONOLULU AND SELECTED DESTINATIONS: 2002 TO 2017

[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	347	380	415	431	444	493
2004 1/	364	379	410	421	428	514	500
2005 1/	373	375	406	403	439	553	546
2006 1/	374	378	425	434	466	602	590
2007 1/	398	391	430	404	421	601	602
2008 1/	480	485	510	451	456	676	676
2009 1/	444	427	449	390	395	642	657
2010 1/	434	421	449	399	410	674	659
2011 1/	512	494	468	428	479	777	704
2012 1/	527	489	493	500	524	802	803
2013 1/	549	550	525	488	506	798	849
2014 1/	555	578	529	486	536	871	896
2015 1/	554	563	540	467	502	855	883
2016 1/	580	552	560	495	531	887	908
2017	613	582	597	516	550	967	955

1/ Data revised from previous *Data Book*. Although changes in data before 2012 tend to be less than 1.

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

Table 18.44-- STATE COMMERCIAL HARBORS: 2017

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet) 1/	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded 1/	Open 1/
Hawaii							
Hilo	35	35	2,300	1,400	2/ 3,650	3/ 105	3/ 1,151
Kawaihae	40	35	1,500	1,450	1,625	16	4/ 1,199
Maui							
Kahului	40	35	2,400	2,050	3,535	62	1,659
Molokai							
Kaunakakai	23	23	1,500	600	690	10	116
Lanai							
Kaunapali	60	30-50	800	500	400	-	89
Oahu							
Honolulu Main	} 45	40	{ 3,600	1,520	} 5/ 33,345	944	12,750
Kapalama			{ 3,500	1,100			
Kalaheo							
Barbers Point	42	38	2,300	1,800	3,260	36	6/ 1,841
Kauai							
Nawiliwili	40	35	1,950	1,540	2,555	83	1,230
Port Allen	35	35	1,500	1,200	1,200	38	35

1/ Revised from previous *Data Book*. Area calculated based on aerial imagery using GIS software.

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

3/ In 2015 Hilo Harbor, Pier 1 had 40% of its shed demolished.

4/ Yard area includes unpaved areas.

5/ Honolulu Harbor Pier 12 rebuilt, completed in 2016.

6/ Yard area includes unpaved areas.

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

Table 18.45-- HARBOR DEPTHS: 2016

[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 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

**Table 18.46-- SMALL CRAFT MOORING FACILITIES,
BY ISLAND: DECEMBER 31, 2017**

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 18.47-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLAND

[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 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 18.48-- UNDOCUMENTED VESSEL REGISTRATION:
DECEMBER 31, 2017**

Subject	Number	Subject	Number
Registered vessels	11,658	Type of vessel	
Length		Aux. powered sailing vessel	1,007
Under 16 feet	3,789	Cabin motorboat	2,160
16 to less than 26 feet	6,085	Open motorboat	5,116
26 to less than 40 feet	1,566	Runabout	1,271
40 to 65 feet	207	Sail only	549
Over 65 feet	11	Houseboat	2
Hull material		Motor vessel over 65 feet in length	9
Aluminum	396	Thrill craft	962
Fiberglass / plastic	10,543	Other	582
Rubber / fabric	356	Uses	
Wood	271	Pleasure	11,241
Other	73	Livery	46
Steel	19	Dealer	9
Propulsion		Manufacturer	1
Inboard	2,521	Youth group - fee exempt	84
Outboard	5,440	Government - fee exempt	254
Inboard / outboard	1,169	Other	23
Sail / inboard	527	Island where vessel is kept	
Sail / outboard	380	Hawaii	2,013
Sail only	450	Kauai	1,235
Manual	61	Lanai	51
Other	121	Maui	1,156
Waterjet	989	Molokai	147
Mooring location		Oahu	7,056
Moored on water	2,649		
Moored on land	9,009		

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 18.49-- NUMBERED VESSELS REGISTERED IN HAWAII:
1998 TO 2017**

[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	2008	16,744
1999	15,481	2009	15,709
2000	14,874	2010	14,847
2001	14,273	2011	14,073
2002	15,445	2012	13,328
2003	15,587	2013	13,928
2004	17,130	2014	12,034
2005	15,302	2015	11,230
2006	15,015	2016	11,689
2007	15,094	2017	11,658

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 18.50-- BOATING ACCIDENTS: 1991 TO 2017

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
2016	16	8	8	4	17	129.0
2017	15	3	3	2	15	809.5

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 18.51-- VESSEL ARRIVALS, BY DRAFT: 2015 AND 2016

[Excludes domestic fishing craft]

Harbor	2015			2016		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	908	515	393	592	409	183
Kawaihae	791	606	185	455	404	51
Kahului	1,364	955	409	802	595	207
Barbers Point	1,150	1,015	135	1,215	1,082	133
Honolulu	4,212	2,725	1,487	2,829	2,011	818
Nawiliwili	883	573	310	596	425	171
Kaunakakai	117	117	-	126	126	-
Port Allen	21	21	-	3	3	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2015, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<http://www.navigationdatacenter.us/wcsc/pdf/wcuspac15.pdf>> accessed July 10, 2017; *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

Table 18.52-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1985 TO 2017

[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)	7,333,941	(NA)	3,845,180
2015 1/ 2/	(NA)	7,267,137	(NA)	3,793,661
2016 1/ 2/	(NA)	7,552,323	(NA)	3,766,320
2017 1/ 2/	(NA)	7,554,958	(NA)	3,415,817

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.

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

**Table 18.53-- CRUISE SHIP PASSENGER ARRIVALS AND DEPARTURES,
FOR HONOLULU HARBOR: 2012 TO 2017**

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

Type of passenger	2012	2013	2014	2015	2016	2017
In	240,245	176,996	196,984	172,382	166,570	177,137
Out	269,359	282,070	274,462	236,400	240,382	241,551

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

**Table 18.54-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1993 TO 2016**

[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
2015	2,130	1,995	3,720	10,570	13,832	1,929
2016	2,158	2,010	3,858	10,226	13,727	2,048

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018 and other annuals.

**Table 18.55-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,
FOR SPECIFIED HARBORS: 2016**

[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	2,158	2,010	3,858	10,226	13,727	2,048
Foreign						
Inbound	31	14	21	5,914	865	12
Outbound	-	1	-	694	289	-
Canadian						
Inbound	-	-	-	569	115	-
Outbound	-	-	-	68	39	-
Domestic						
Coastwise	2,127	1,995	3,837	2,980	12,419	2,036
Receipts	1,524	1,228	2,375	1,707	6,196	1,357
Shipments	604	767	1,453	1,250	6,223	679
Internal, inbound, upbound	-	-	9	22	-	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2017.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2016**

[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	2,158	31	-	-	-	2,127	1,524	604	-
Petroleum and petroleum products	366	31	-	-	-	335	335	(2/)	-
Primary manufactured goods	30	-	-	-	-	30	27	3	-
Food and farm products	35	-	-	-	-	35	19	16	-
Manufactured equipment, machinery and products	1,693	-	-	-	-	1,693	1,116	577	-
Kawaihae	2,010	14	1	-	-	1,995	1,228	767	-
Petroleum and petroleum products	86	-	-	-	-	86	86	-	-
Primary manufactured goods	48	-	-	-	-	48	45	3	-
Food and farm products	120	-	-	-	-	120	76	44	-
Manufactured equipment, machinery and products	1,694	-	-	-	-	1,694	993	701	-
Kahului	3,858	21	-	-	-	3,837	2,375	1,453	9
Petroleum and petroleum products	410	21	-	-	-	389	388	1	-
Primary manufactured goods	68	-	-	-	-	68	63	5	-
Food and farm products	313	-	-	-	-	313	113	191	9
Manufactured equipment, machinery and products	3,016	-	-	-	-	3,016	1,775	1,241	-
Barbers Point	10,226	5,914	694	569	68	2,980	1,707	1,250	22
Petroleum and petroleum products	8,357	4,841	602	234	68	2,612	1,491	1,099	22
Primary manufactured goods	507	384	-	-	-	123	2	121	-
Food and farm products	(2/)	(2/)	-	-	-	-	-	-	-
Manufactured equipment, machinery and products	164	17	-	(2/)	-	147	147	-	-

Continued on next page.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2016 -- Con.**

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Honolulu	13,727	865	289	115	39	12,419	6,196	6,223	-
Petroleum and petroleum products	1,086	602	156	115	39	174	84	90	-
Primary manufactured goods	300	45	5	(2/)	-	250	199	51	-
Food and farm products	1,761	58	15	-	-	1,689	1,221	468	-
Manufactured equipment, machinery and products	10,003	86	15	(2/)	-	9,901	4,400	5,501	-
Nawiliwili	2,048	12	-	-	-	2,036	1,357	679	-
Petroleum and petroleum products	195	12	-	-	-	183	183	(2/)	-
Primary manufactured goods	28	-	-	-	-	28	24	4	-
Food and farm products	41	-	-	-	-	41	35	6	-
Manufactured equipment, machinery and products	1,759	-	-	-	-	1,759	1,096	663	-

1/ Includes intraport, upbound and downbound.

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 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

Table 18.57-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2016

[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	1,006	27,864	1,445,672	51,883
481	Air transportation	82	9,013	609,292	67,601
4811	Scheduled air transportation	55	8,674	591,093	68,145
4812	Nonscheduled air transportation	27	339	18,199	53,670
483	Water transportation	22	1,727	126,548	73,266
484	Truck transportation	199	3,376	151,463	44,863
4841	General freight trucking	100	1,808	82,123	45,422
4842	Specialized freight trucking	100	1,568	69,340	44,219
485	Transit & ground passenger transp.	136	2,695	67,003	24,860
4854	School & employee bus transp.	16	1,037	24,447	23,580
4859	Other ground passenger transp.	51	1,082	26,035	24,060
487	Scenic & sightseeing transportation	231	4,250	152,124	35,790
4871	Scenic & sightseeing transp., land	48	1,713	57,678	33,663
4872	Scenic & sightseeing transp., water	159	1,967	63,696	32,382
4879	Scenic & sightseeing transp., other	24	570	30,749	53,946
488	Support activities for transportation	231	4,586	244,054	53,213
4881	Support activities for air transp.	66	2,366	66,932	28,290
4883	Support activities for water transp.	36	1,278	139,869	109,451
4885	Freight transportation arrangement	68	462	24,049	52,044
492	Couriers & messengers	63	1,592	66,181	41,582
4921	Couriers and express delivery services	39	1,471	62,903	42,753
4922	Local messengers and local delivery	23	120	3,277	27,255

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2016*, table 10 <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

Table 18.58-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2017

[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	1,046	28,937	1,611,903	55,703
481	Air transportation	86	9,527	735,309	77,184
4811	Scheduled air transportation	55	9,162	713,813	77,914
4812	Nonscheduled air transportation	31	365	21,495	58,864
483	Water transportation	23	1,743	127,479	73,124
484	Truck transportation	211	3,388	151,798	44,811
4841	General freight trucking	104	1,840	85,195	46,301
4842	Specialized freight trucking	106	1,548	66,604	43,040
485	Transit & ground passenger transp.	140	2,528	67,201	26,582
4854	School & employee bus transp.	15	1,007	25,555	25,367
4859	Other ground passenger transp.	57	1,022	26,512	25,933
487	Scenic & sightseeing transportation	242	4,394	162,665	37,021
4871	Scenic & sightseeing transp., land	52	1,782	62,884	35,284
4872	Scenic & sightseeing transp., water	167	1,995	65,951	33,061
4879	Scenic & sightseeing transp., other	23	617	33,831	54,846
488	Support activities for transportation	233	4,765	261,192	54,813
4881	Support activities for air transp.	72	2,513	72,052	28,669
4883	Support activities for water transp.	35	1,267	150,896	119,066
4885	Freight transportation arrangement	67	486	25,982	53,507
492	Couriers & messengers	68	1,980	74,864	37,809
4921	Couriers and express delivery services	41	1,607	65,381	40,677
4922	Local messengers and local delivery	26	373	9,483	25,441

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2017*, table 10 <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

**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.