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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: 2018**

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	Kamehameha Hwy, Kahekili Hwy, Likelike Hwy	43.90
92	Nimitz Hwy, Ala Moana Blvd	9.28
93	Farrington Hwy.	19.52
99	Kamehameha 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: 2018 -- 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 June 2019.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 2016 TO 2018

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

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
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	-	-	-	-
2018				
State total	4,475.48	88.49	4,213.48	173.51
Hawaii	1,491.84	-	1,431.84	60.00
Maui	658.31	-	601.21	57.10
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,699.08	88.49	1,602.67	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, 2018

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: 2009 TO 2018

[Good (G), Fair (F), Poor(P): These terms are defined in accordance with the Pavement and Bridge Condition Performance Measures final rule, published in January of 2017. Bridge Condition is determined by the lowest rating of National Bridge Inventory (NBI) condition ratings for Item 58 (Deck), Item 59 (Superstructure), Item 60 (Substructure), or Item 62 (Culvert). If the lowest rating is greater than or equal to 7, the bridge is classified as Good; if it is less than or equal to 4, the classification is Poor. Bridges rated 5 or 6 are classified as Fair.

Year	Bridge counts			Bridge area (Square meters) 1/				
	Total	Good	Fair	Poor	Total	Good	Fair	Poor
2009	1,133	389	659	85	1,321,814	376,003	920,392	25,420
2010	1,137	380	679	78	1,323,345	378,464	919,875	25,006
2011	1,132	354	705	73	1,309,322	348,396	939,298	21,627
2012	1,131	347	712	72	1,313,634	306,144	984,599	22,892
2013	1,125	328	722	75	1,314,136	293,854	997,253	23,029
2014	1,137	486	581	59	1,389,453	417,881	879,437	18,605
2015	1,142	486	591	59	1,391,813	403,646	904,894	19,697
2016	1,132	436	634	62	1,319,917	358,370	942,557	18,989
2017	1,135	428	642	65	1,320,446	356,706	944,069	19,671
2018	1,137	355	704	78	1,324,180	326,663	968,926	28,592

1/ This term is defined in accordance with the Pavement and Bridge Condition Performance Measures final rule, published in January of 2017. Bridge Deck Area is determined by multiplying Length (NBI Item 49) by Width. If NBI Item 52 (Deck Width) is greater than zero, this value is used for Width in the calculation. If Item 52 is zero or null, as in cases where the roadway is on a fill over the structure and headwalls do not affect the flow of traffic, NBI Item 32 (Approach Roadway Width) is used for Width in the calculation. For data prior to 2018, only Item 52 is used for Width in the calculation, regardless of its value.

Source: U.S. Department of Transportation, Federal Highway Administration, Bridges and Structures, *Bridges Condition by Highway System* <<https://www.fhwa.dot.gov/bridge/nbi/condition.cfm>> accessed June 14, 2019.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2018

Island and name of tunnel		Length (feet)
Oahu		
Pali, Honolulu side	to Honolulu	1,049
	from Honolulu	1,076
Pali, Kailua side	to Honolulu	524
	from Honolulu	531
Wilson	to Honolulu	2,786
	from Honolulu	2,804
H-3	to Honolulu	5,579
	from Honolulu	5,569
H-3, Hospital Rock	to Honolulu	389
	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: 2008 TO 2018

[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
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
2018	1,295,574	1,267,136	1,023,774	103	2,278
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	Trailers and semi-trailers
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
2018	195,849	1,561	3,635	39,936	28,438

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 2018

[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
2018	1,267,136	793,379	205,682	85,748	182,327

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

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,
BY COUNTY: 2018**

[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	1,295,574	806,683	213,465	89,158	186,268
Motor vehicles	1,267,136	793,379	205,682	85,748	182,327
Passenger vehicles 1/	1,023,774	660,117	158,167	62,180	143,310
Ambulances	103	50	19	15	19
Buses	2,278	1,678	349	88	163
Trucks 1/	195,849	100,639	41,144	21,107	32,959
Truck tractors	1,561	683	219	577	82
Truck cranes	3,635	3,285	184	75	91
Motorcycles, motorscooters 2/	39,936	26,927	5,600	1,706	5,703
Trailers and semi-trailers	28,438	13,304	7,783	3,410	3,941

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: 2018**

[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	1,227,200	766,452	200,082	84,042	176,624
Taxable vehicles	1,130,247	676,520	197,128	82,773	173,826
Exempt vehicles	96,953	89,932	2,954	1,269	2,798
Federal government	451	443	5	-	3
State government	7,171	7,159	10	-	2
County government	8,444	5,371	1,203	624	1,246
Fire department	342	64	145	64	69
Police department	1,832	1,271	381	46	134
Consulates	53	51	2	-	-
Disabled veterans	508	122	371	7	8
Military non-resident	63,705	63,445	46	153	61
Farm	167	88	56	1	22
Horseless carriage	52	46	-	6	-
Electric vehicles	8,453	6,643	467	285	1,058
National Guard	5,775	5,229	268	83	195

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

**Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTY: 2017**

[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	458,078	68,857	312,625	22,980	53,560
None	36,257	2,709	28,812	905	3,805
1	156,035	23,758	109,891	5,729	16,639
2	162,390	26,901	107,898	8,838	18,741
3	63,309	10,956	38,690	5,151	8,512
4 or more	40,087	4,533	27,334	2,357	5,863

Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates
<<https://www.census.gov/programs-surveys/acs/>> accessed June 16, 2019.

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 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 18.13-- 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	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)	306	364
Lincoln	72	45	33
Jaguar	36	80	129

NA Not available.

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

**Table 18.14-- 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	11,276	12,469	12,763
European	5,695	5,613	5,772
Japanese	36,092	36,584	36,912
Korean	4,031	3,819	3,690

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

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTY:
1991 TO 2018**

[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
2018	945,163	627,030	140,057	56,628	121,448

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

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX:
2017 AND 2018**

[As of December 31]

Years of age	Both sexes		Male		Female	
	2017	2018	2017	2018	2017	2018
Total	950,481	945,163	490,148	485,773	460,333	459,390
15 to 19	24,530	24,134	12,854	12,454	11,676	11,680
20 to 24	61,975	61,309	32,314	31,769	29,661	29,540
25 to 29	72,427	71,624	37,138	36,662	35,289	34,962
30 to 34	83,932	83,055	42,782	42,168	41,150	40,887
35 to 39	85,971	85,844	43,604	43,347	42,367	42,497
40 to 44	78,369	77,487	39,851	39,437	38,518	38,050
45 to 49	82,993	80,983	42,951	41,689	40,042	39,294
50 to 54	83,670	81,142	43,056	41,631	40,614	39,511
55 to 59	88,380	86,895	45,635	44,858	42,745	42,037
60 to 64	87,118	86,100	44,707	44,032	42,411	42,068
65 to 69	78,055	78,147	40,758	40,605	37,297	37,542
70 to 74	59,960	61,702	31,562	32,292	28,398	29,410
75 to 79	32,836	35,941	17,292	18,928	15,544	17,013
80 to 84	16,930	17,440	8,651	8,935	8,279	8,505
85 to 89	9,730	9,604	4,914	4,856	4,816	4,748
90 to 94	3,199	3,326	1,815	1,854	1,384	1,472
95 to 99	406	430	264	256	142	174

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

Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1994 TO 2018, AND BY COUNTY, 2017 AND 2018

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/
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
2018	544,658	430	11,417.6	9,011
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
COUNTY: 2018				
Honolulu	314,735	397	6,901.2	8,704
Hawaii	110,471	537	1,994.9	9,703
Kauai	47,989	550	903.4	10,347
Maui	71,463	394	1,618.1	8,921

Continued on next page.

Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1994 TO 2018, AND BY COUNTY, 2017 AND 2018 -- 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 18.18-- TOTAL 24-HOUR TRAFFIC VOLUME AT SELECTED SURVEY SITES: 2016 TO 2018

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

Island and site	Route	Milepoint	2016	2017	2018
Oahu					
H-1 west of Kualalalai Pkwy overpass	H-1	3.41	94,300	92,800	92,800
H-1 west of Kaonohi St overpass	H-1	11.74	240,800	247,700	247,700
H-1 at Halawa Stream bridge	H-1	13.54	109,100	110,500	109,100
H-1 at airport off-ramp	H-1	16.22	96,700	96,900	96,200
H-1 west of King St tunnel	H-1	18.77	66,500	1/ 67,900	67,400
H-1 at Kalihi interchange	H-1	19.27	177,900	1/ 180,200	180,800
H-1 at Kapalama drainage canal bridge	H-1	20.24	193,400	196,900	199,500
H-1 at McCully St overpass	H-1	23.55	140,600	142,000	141,400
H-1 at Manoa-Palolo drainage canal	H-1	24.60	111,700	112,200	111,400
H-2 south of Pineapple Rd overpass	H-2	4.02	96,800	98,700	99,200
H-3 west of North Halawa Valley bridge	H-3	1.28	48,700	49,100	49,200
H-3 west of Kamehameha Hwy interchange	H-3	10.37	27,100	27,200	27,100
Moanalua Freeway west of Kahuapaani St overpass	H-201	0.21	46,800	47,300	49,000
Moanalua Freeway west of Moanalua St bridge	H-201	3.19	108,500	108,900	111,200
Pali Hwy at tunnels	61	5.69	41,600	42,100	39,500
Likelike Hwy north of Valley View Drive	63	2.96	32,300	31,200	32,700
Sand Island Parkway north of Pascule bridge	64	1.41	12,700	12,800	12,800
Kalaniana'ole Hwy east of Ainakoa Ave	72	18.32	83,900	84,800	84,300
Kamehameha Hwy at Wilson Bridge	80	0.01	32,483	56,500	55,800
Kamehameha Hwy 1.6 miles northeast of Johnson Rd	83	30.59	12,600	12,800	12,900
Nimitz Hwy east of Sand Island Access Rd	92	4.04	56,500	57,200	56,800
Farrington Hwy at Makaha bridge #2	93	12.50	18,900	18,700	18,600
Kalaeloa Blvd south of H-1 on-ramp	95	0.27	36,200	36,900	(NA)

Continued on next page.

Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUME AT SELECTED SURVEY SITES: 2016 TO 2018 -- Con.

Island and site	Route	Milepoint	2016	2017	2018
Oahu con.					
Kamehameha Hwy at Kalauao bridge	99	20.67	51,816	38,200	37,800
Kunia Rd near Kunia Dr	750	4.81	14,400	13,900	13,800
Hawaii					
Volcano Rd near Ikaika St	11	5.29	43,400	44,300	45,000
Volcano Rd at Glenwood Park	11	19.66	7,100	7,500	6,800
Mamalahoa Hwy at states' south Kona baseyard	11	104.14	6,767	7,300	7,200
Queen Kaahumanu Hwy near Hualalai Rd	11	120.77	25,800	24,700	21,300
Hawaii Belt Rd north of Kalaoa bridge	19	8.01	10,100	10,400	10,500
Queen Kaahumanu Hwy near Kaupulehu Dr	19	83.60	13,700	13,400	13,400
Queen Kaahumanu Hwy north of OTEC access Rd	19	93.74	24,000	24,400	27,900
Keaau-Pahoa Rd south of waste station Rd	130	2.51	28,900	30,800	22,000
Maui					
Honoapiilani Hwy south of Kaanapali Pkwy	30	23.58	43,300	43,800	43,700
Honoapiilani Hwy north of Kahana Kai bridge	30	28.37	14,819	15,483	14,800
Piilani Hwy near Lipoa Pkwy	31	1.47	34,721	42,400	43,163
Hana Hwy near Central Power Plant Rd	36	1.70	37,525	37,400	37,700
Hana Hwy near Baldwin Park	36	6.28	18,800	18,800	19,200
Keolani Pl near Palapala Dr	36A	0.50	14,400	9,500	8,500
Kaleakala Hwy near North Firebreak Rd	37	0.61	32,000	32,700	32,900
North Kihei Hwy near 9th St	310	0.86	17,100	17,100	17,300
Mokulele Hwy near Nakii Rd	311	2.38	33,400	34,300	34,900
Kuihelani Hwy near Mauilani Pkwy	380	1.52	24,900	25,700	26,700

Continued on next page.

Table 18.18-- TOTAL 24-HOUR TRAFFIC VOLUME AT SELECTED SURVEY SITES: 2016 TO 2018 -- Con.

Island and site	Route	Milepoint	2016	2017	2018
Kauai					
Kaumualii Hwy near Nani St	50	1.51	25,605	28,400	29,000
Kaumualii Hwy at Punee Rd	50	8.35	14,900	15,200	15,600
Kaumualii Hwy near Alawai Rd	50	22.69	11,100	11,500	11,700
Rice St near Mokoi St	51	0.79	13,400	13,600	13,600
Kuhio Hwy near Huilei Rd	56	2.40	15,500	15,100	15,300
Kuhio Hwy northwest of Kolo Rd and Kalamania Rd	56	23.53	15,000	15,500	15,200
Nawiliwili Rd near Kanani St	58	1.44	11,500	12,200	12,300
Akuhuni Rd near Palai St	570	0.31	13,600	14,200	14,800

NA Not available.

1/ Revised from previous *Data Book*.

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)	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 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1998 TO 2017, AND BY COUNTY, 2016 AND 2017

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal 2/	Injured only	Killed 2/
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/ 8,667	115	4/ 6,375	125
2013 3/	4/ 9,267	94	4/ 6,268	102
2014 3/	4/ 10,617	95	4/ 6,920	95
2015 3/	4/ 10,792	85	4/ 7,008	93
2016 3/	4/ 9,033	109	4/ 5,819	120
2017 3/	8,902	96	4,791	107
County: 2016 3/				
Honolulu	4/ 5,792	55	4/ 3,536	59
Hawaii	4/ 1,453	27	4/ 818	32
Kauai	4/ 551	8	4/ 321	8
Maui	4/ 1,237	19	4/ 1,144	21
County: 2017 3/				
Honolulu	5,949	46	2,544	49
Hawaii	1,375	33	837	35
Kauai	467	3	361	6
Maui	1,111	14	1,049	17

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 18.21-- DRIVERS INVOLVED IN FATAL CRASHES AND BLOOD ALCOHOL CONCENTRATION (BAC) OF THE DRIVER: 2015 TO 2017

[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
2015, State total 1/	124	85	68	40	32	7	5	33	27
Hawaii	32	24	75	8	25	2	5	6	19
Honolulu	65	45	70	20	30	2	3	18	27
Kauai	4	3	65	1	35	-	3	1	33
Maui	23	13	54	11	46	3	11	8	34
2016, State total 1/	153	109	71	44	29	6	4	38	25
Hawaii	40	30	75	10	26	2	5	8	20
Honolulu	75	54	72	21	28	2	2	20	26
Kauai	11	6	56	5	44	1	12	4	32
Maui	27	19	71	8	29	1	4	7	25
2017, State total	144	97	68	47	32	9	6	38	26
Hawaii	53	38	72	15	28	3	6	11	22
Honolulu	60	42	70	18	30	4	6	14	24
Kauai	6	5	83	1	17	-	-	1	17
Maui	25	12	49	13	51	1	6	11	46

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 6, 2019.

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLAND:
2016 TO 2018**

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	2016	2017	2018	2016	2017	2018
Hawaii	266	254	226	5,054	5,078	5,610
Maui	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lanai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Molokai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oahu	1,791	(3/)	(3/)	526,636	549,895	560,730
Kauai 4/	-	-	-	(NA)	(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.

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) BY COUNTY: 1997 TO 2012

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

Subject	State total	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: 2018

[As of September]

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,594	6,361	150,663	5,166	22,688
Hawaii	294	1,064	25,485	1,042	4,196
Maui	224	1,307	32,050	885	3,560
Honolulu	976	3,474	81,057	2,640	12,974
Kauai	100	511	12,071	599	1,956

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 2018

[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	546	20,999,788	65,276,018	51,441,589
2018	546	21,258,894	64,119,604	54,147,373

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 18.26-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 2019

[As of July 1, 2019. 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, 2019.

Table 18.27-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLAND: 2016

[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-- DANIEL K. INOUE INTERNATIONAL AIRPORT AIRCRAFT OPERATIONS AND ENPLANED PASSENGERS: 2000 TO 2017

[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
2017	258,154	9,702,565	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 July 10, 2019.

Table 18.29-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 2016 TO 2018

[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
2016					
Daniel K. Inouye 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					
Daniel K. Inouye 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
2018					
Daniel K. Inouye International	311,814	158,410	96,949	41,628	14,827
Kahului	149,031	52,930	73,433	21,325	1,343
Kona International	121,542	31,528	23,190	59,624	7,200
Lihue	137,958	29,441	82,879	23,219	2,419
Hilo International	82,840	16,392	3,104	60,112	3,232
Molokai	40,541	-	35,793	3,860	888
Kalaeloa	162,708	8	72	140,006	22,622

Source: Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 19, 2019.

**Table 18.30-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1991 TO 2018**

[An aircraft operation is an aircraft arrival or departure]

Year	Daniel K. Inouye 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
2018	311,814	82,840	121,542	149,031	137,958	40,541

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 to 2018 Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 19, 2019.

Table 18.31-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING HAWAII: 2007 TO 2018

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

Service	2007	2008	2009	2010	2011	2012
All carriers	39	37	39	33	37	38
Transpacific only	30	28	30	24	26	28
Domestic	14	13	12	11	12	16
Foreign	16	15	18	13	14	12
Transpacific and interisland	2	2	1	2	1	1
Interisland only	7	7	8	7	10	9
Passenger carriers	3	3	3	4	6	6
Cargo and mail only	4	4	5	3	4	3
Service	2013	2014	2015	2016	2017	2018
All carriers	36	36	36	35	42	38
Transpacific only	26	27	28	27	35	31
Domestic	14	14	14	13	19	15
Foreign	12	13	14	14	16	16
Transpacific and interisland	1	1	1	1	1	1
Interisland only	9	8	7	7	6	6
Passenger carriers	6	5	4	4	3	2
Cargo and mail only	3	3	3	3	3	4

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

**Table 18.32-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 2016 TO 2018**

[Non-stop flights only]

Airport	2016	2017	2018
State of Hawaii	12,020,545	12,235,608	13,248,069
Daniel K. Inouye International	8,085,502	8,113,768	8,286,086
Kahului	2,335,214	2,329,750	2,626,225
Kona International	852,562	984,420	1,280,769
Hilo International	45,045	48,180	54,295
Lihue	702,222	759,490	1,000,694
Domestic	8,315,458	8,409,740	9,297,472
International	3,705,087	3,825,868	3,950,597

Source: Hawaii Tourism Authority, Tourism Research, *Monthly Visitors Statistics December 2017* and Hawaii Tourism Authority, Tourism Research, *Monthly Visitor Statistics, December 2018*
<<https://www.hawaiitourismauthority.org/research/monthly-visitor-statistics/>> accessed June 19, 2019.

Table 18.33-- CIVIL AIRMEN: 2014 TO 2018

[As of December 31]

Item	2014	2015	2016	2017	2018
Estimated active personnel					
Pilots, except instructors	3,134	3,145	3,126	3,281	3,421
Commercial 1/	707	694	678	686	709
Flight instructors	661	698	731	738	760
Nonpilot airmen 2/ 3/	6,833	7,004	6,773	6,964	7,292
Flight attendant	3,735	3,889	4,115	4,255	4,514
Estimated active women personnel					
Pilots, except instructors	332	354	357	385	425
Commercial 1/	78	80	71	72	72
Flight instructors	73	77	81	82	80
Nonpilot airmen 2/ 3/	2,865	2,990	3,126	3,224	3,413
Flight attendant	2,664	2,781	2,956	3,060	3,236

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 a 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, 2019.

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 2018

[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
2018	11,445,430	11,431,092	155,316	6,706,144

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 2017-2018, 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, 2019.

Table 18.37-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2018

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
OVERSEAS						
Total	11,431,092	11,445,430	225,005	369,696	4,981	7,794
Honolulu	7,286,680	7,240,571	211,070	352,436	4,981	7,786
Kahului	2,274,252	2,282,982	1,524	10,595	-	8
Kona 2/	1,017,755	1,044,363	12,312	6,013	-	-
Lihue	818,378	841,113	98	646	-	-
Hilo	34,027	36,401	1	6	-	-
INTERISLAND						
Total	6,706,144	6,706,144	104,433	104,433	14,476	14,476
Honolulu	2,919,028	2,936,910	75,764	24,412	12,076	2,327
Kahului	1,350,615	1,366,601	8,174	27,176	1,590	4,838
Kona 2/	847,805	817,497	6,602	24,760	-	3
Lihue	845,231	832,526	5,478	13,310	29	3,187
Hilo	565,559	572,490	8,174	13,785	781	4,121
Molokai	79,336	81,847	48	231	-	-
Lanai	41,996	41,381	37	155	-	-
Kapalua	46,574	47,569	156	604	-	-
Waimea-Kohala	4,068	3,941	-	-	-	-
Kalaupapa	3,256	3,051	-	-	-	-
Kalaelo	-	-	-	-	-	-
Hana	2,676	2,331	-	-	-	-

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, 2019.

Table 18.38-- AIR CARGO AND AIRMAIL: 1989 TO 2018

[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
2018 1/	449,215	739,391	9,963	15,588	208,866	28,952

1/ Data for 2017-2018 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, 2019.

**Table 18.39-- NON-STOP FLIGHTS TO DEPART STATE OF HAWAII,
BY DESTINATION: JULY 2018**

[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	5,395	Japan	
U.S.	4,149	Fukuoka	31
West		Nagoya	62
Anchorage	31	Osaka	159
Denver	124	Sapporo	13
Las Vegas	80	Tokyo - Haneda	93
Long Beach	31	Tokyo - Narita	371
Los Angeles	1,416	Other Asia	
Oakland	174	Beijing	27
Phoenix	217	Seoul	94
Portland	168	Shanghai	27
Sacramento	62	Taipei	9
Salt Lake City	31	Oceania	
San Diego	186	Auckland	58
San Francisco	632	Brisbane	13
San Jose	186	Melbourne	16
Seattle	417	Sydney	78
East		Other	
Atlanta	31	Apia	4
Chicago	53	Guam	31
Dallas / Fort Worth	155	Christmas Island	4
Houston	31	Majuro	18
Minneapolis	31	Manila	22
New York	31	Nadi	5
Newark	31	Pago Pago	14
Washington, D.C.	31	Papeete	4
Canada			
Vancouver	93		

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

Table 18.40-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 2014 TO 2018

[As of July 1. Includes all taxes]

Category	2014	2015	2016	2017	2018
Regular fare	185.00	187.00	182.40	189.40	189.28
Lowest capacity-controlled fare	68.70	69.40	76.40	79.40	70.29

Source: Hawaiian Airlines, records.

Table 18.41-- ANNUAL AVERAGE ROUND TRIP AIRFARES BETWEEN HONOLULU AND SELECTED DESTINATIONS: 2002 TO 2018

[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	386	399	385	401	460	460	511
2003	348	347	380	415	431	444	493
2004	364	379	410	421	428	514	500
2005	373	375	406	403	439	553	546
2006	374	378	425	434	466	602	590
2007	398	391	430	404	421	601	602
2008	480	485	510	451	456	676	676
2009	444	427	449	390	395	642	657
2010	434	421	449	399	410	674	659
2011	512	494	468	428	479	777	704
2012	527	489	493	500	524	802	803
2013	549	550	525	488	506	798	849
2014	555	578	529	486	536	871	896
2015	554	563	540	467	502	855	883
2016	580	552	560	495	531	887	908
2017 1/	607	576	591	509	543	958	947
2018	537	529	613	479	511	942	910

1/ Data revised from previous *Data Book*.

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

Table 18.42-- STATE COMMERCIAL HARBORS: 2018

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/ 3,435	3/ 105	3/ 1,143
Kawaihae	40	35	1,500	1,450	1,625	8	4/ 1,199
Maui							
Kahului	40	35	2,400	2,050	3,535	52	1,660
Molokai							
Kaunakakai	23	23	1,500	600	690	10	114
Lanai							
Kaunalapau	60	30-50	800	500	400	-	90
Oahu							
Honolulu Main	} 45	40	} 3,600	1,520	} 5/ 33,165	756	13,118
Kapalama			} 3,500	1,100			
Kalaeloa							
Barbers Point	42	38	2,300	1,800	3,260	36	6/ 1,840
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) continued through 2015.

3/ In 2015 Hilo Harbor, Pier 1 had 40 percent 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 18.43-- HARBOR DEPTHS: 2017

[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 2017, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 6, 2019.

**Table 18.44-- SMALL CRAFT MOORING FACILITIES, BY ISLAND:
DECEMBER 31, 2018**

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 18.45-- 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	
Mau	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 18.46-- UNDOCUMENTED VESSEL REGISTRATION:
DECEMBER 31, 2018**

Subject	Number	Subject	Number
Registered vessels	12,371	Type of vessel 1/	
Length		Aux. powered sailing vessel	1,033
Under 16 feet	3,997	Cabin motorboat	2,325
16 to less than 26 feet	6,421	Open motorboat	5,493
26 to less than 40 feet	1,723	Runabout	1,211
40 to 65 feet	221	Sail only	581
Over 65 feet	9	Houseboat	2
Hull material 1/		Motor vessel over 65 feet in length	8
Aluminum	466	Thrill craft	1,036
Fiberglass / plastic	11,135	Other	684
Rubber / fabric	379	Uses 1/	
Wood	297	Pleasure	11,472
Other	76	Charter fishing	4
Steel	20	Commercial fishing	147
Propulsion 1/		Commercial Passenger	204
Inboard	2,605	Livery	45
Outboard	5,894	Dealer	8
Inboard / outboard	1,206	Manufacturer	1
Sail / inboard	515	Youth group - fee exempt	98
Sail / outboard	383	Government - fee exempt	255
Sail only	479	Other	139
Manual	73	Island where vessel is kept 1/	
Other	158	Hawaii	2,179
Waterjet	1,060	Kauai	1,318
Mooring location 1/		Lanai	53
Moored on water	2,850	Maui	1,246
Moored on land	9,523	Molokai	158
		Oahu	7,419

1/ Categories do not equal to total due to 2 vessels incorrectly entered into vessel.hawaii.gov which affects the counts.

Source: 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 18.47-- NUMBERED VESSELS REGISTERED IN HAWAII: 1998 TO 2018

[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	Year	Number of vessels
1998	15,138	2006	15,015	2014	12,034
1999	15,481	2007	15,094	2015	11,230
2000	14,874	2008	16,744	2016	11,689
2001	14,273	2009	15,709	2017	11,658
2002	15,445	2010	14,847	2018	12,371
2003	15,587	2011	14,073		
2004	17,130	2012	13,328		
2005	15,302	2013	13,928		

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 18.48-- BOATING ACCIDENTS: 1991 TO 2018

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	190
1992	19	(NA)	3	5	(NA)	472
1993	19	3	3	4	25	219
1994	25	3	4	9	28	257
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	245
2001	19	3	3	5	18	46
2002	22	2	2	7	24	118
2003	30	1	1	10	38	82
2004	24	1/ 5	5	6	32	107
2005	22	4	4	7	24	36
2006	30	7	7	6	32	431
2007	18	4	4	4	22	1,190
2008	27	5	5	22	30	299
2009	31	8	8	-	34	31
2010	21	4	4	3	21	(NA)
2011	28	6	6	1	32	55
2012	32	5	5	7	35	243
2013	18	4	4	7	19	217
2014	12	3	3	3	12	8
2015	15	5	2	7	16	165
2016	16	8	8	4	17	129
2017	15	3	3	2	15	810
2018	9	1	1	5	9	32

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 18.49-- VESSEL ARRIVALS, BY DRAFT: 2016 AND 2017

[Excludes domestic fishing craft]

Harbor	2016			2017		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	592	409	183	543	328	215
Kawaihae	455	404	51	429	372	57
Kahului	802	595	207	688	486	202
Barbers Point	1,215	1,082	133	844	728	116
Honolulu	2,829	2,011	818	2,553	1,600	953
Nawiliwili	596	425	171	531	347	184
Kaunakakai	126	126	-	71	71	-
Port Allen	3	3	-	-	-	-

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 2 Trips and Drafts of Vessels* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018; *Waterborne Commerce of the United States Calendar Year 2017, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<https://ndclibrary.planusace.us/#/home>> accessed July 6, 2019.

Table 18.50-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1986 TO 2018

[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
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
2018 1/ 2/	(NA)	7,517,270	(NA)	3,428,327

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 18.51-- CRUISE SHIP PASSENGER FOR HONOLULU HARBOR:
2013 TO 2018**

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

Type of passenger	2013	2014	2015	2016	2017	2018
In	176,996	196,984	172,382	166,570	177,137	182,596
Out	282,070	274,462	236,400	240,382	241,551	254,085

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

**Table 18.52-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1993 TO 2017**

[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
2017	2,165	2,037	3,671	9,996	14,786	1,902

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2017, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 6, 2019 and other annuals.

**Table 18.53-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,
FOR SPECIFIED HARBORS: 2017**

[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	2,165	2,037	3,671	9,996	14,786	1,902
Foreign						
Inbound	26	-	21	6,789	743	16
Outbound	-	-	-	524	546	-
Canadian						
Inbound	-	-	-	321	57	-
Outbound	-	-	-	-	-	-
Domestic						
Coastwise	2,139	2,037	3,650	2,361	13,441	1,885
Receipts	1,527	1,287	2,404	1,035	7,324	1,267
Shipments	611	750	1,246	1,312	6,117	618
Internal, inbound, upbound	-	-	-	14	-	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2017, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 6, 2019.

Table 18.54-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES, FOR SPECIFIED HARBORS: 2017

[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	2,165	26	-	-	-	2,139	1,527	611	-
Petroleum and petroleum products	350	26	-	-	-	324	323	1	-
Primary manufactured goods	29	-	-	-	-	29	27	3	-
Food and farm products	34	-	-	-	-	34	20	15	-
Manufactured equipment, machinery and products	1,718	-	-	-	-	1,718	1,130	589	-
Kawaihae	2,037	-	-	-	-	2,037	1,287	750	-
Petroleum and petroleum products	105	-	-	-	-	105	105	(2/)	-
Primary manufactured goods	44	-	-	-	-	44	41	3	-
Food and farm products	133	-	-	-	-	133	92	40	-
Manufactured equipment, machinery and products	1,703	-	-	-	-	1,703	1,019	685	-
Kahului	3,671	21	-	-	-	3,650	2,404	1,246	-
Petroleum and petroleum products	462	21	-	-	-	441	441	(2/)	-
Primary manufactured goods	72	-	-	-	-	72	66	6	-
Food and farm products	188	-	-	-	-	188	124	64	-
Manufactured equipment, machinery and products	2,905	(2/)	-	-	-	2,905	1,742	1,163	-
Barbers Point	9,996	6,789	524	321	-	2,361	1,035	1,312	14
Petroleum and petroleum products	8,216	5,740	419	9	-	2,048	869	1,166	14
Primary manufactured goods	460	337	-	-	-	123	-	123	-
Food and farm products	(2/)	(2/)	-	-	-	-	-	-	-
Manufactured equipment, machinery and products	122	(2/)	-	-	-	121	121	-	-

Continued on next page.

Table 18.54-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES, FOR SPECIFIED HARBORS: 2017 -- Con.

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Honolulu	14,786	743	546	57	-	13,441	7,324	6,117	-
Petroleum and petroleum products	1,191	514	423	57	-	197	160	37	-
Primary manufactured goods	267	38	4	-	-	226	188	37	-
Food and farm products	1,732	63	19	-	-	1,650	1,184	466	-
Manufactured equipment, machinery and products	11,099	101	22	-	-	10,976	5,493	5,483	-
Nawiliwili	1,920	16	-	-	-	1,885	1,267	618	-
Petroleum and petroleum products	178	16	-	-	-	162	162	(2/)	-
Primary manufactured goods	23	(2/)	-	-	-	23	19	4	-
Food and farm products	58	-	-	-	-	58	47	12	-
Manufactured equipment, machinery and products	1,622	-	-	-	-	1,622	1,025	597	-

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 2017, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 6, 2019.

Table 18.55-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2018

[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	1,043	29,660	1,648,262	55,571
481	Air transportation	75	9,747	717,046	73,564
4811	Scheduled air transportation	45	9,384	695,457	74,114
4812	Nonscheduled air transportation	30	364	21,589	59,377
483	Water transportation	23	1,740	134,103	77,085
484	Truck transportation	211	3,305	154,687	46,800
4841	General freight trucking	104	1,830	87,662	47,905
4842	Specialized freight trucking	107	1,475	67,025	45,430
485	Transit & ground passenger transp.	133	2,289	64,817	28,312
4854	School & employee bus transp.	15	1,014	26,125	25,766
4859	Other ground passenger transp.	54	830	24,406	29,416
487	Scenic & sightseeing transportation	246	4,575	171,511	37,492
4871	Scenic & sightseeing transp., land	51	1,844	65,409	35,463
4872	Scenic & sightseeing transp., water	172	2,071	70,290	33,936
4879	Scenic & sightseeing transp., other	23	659	35,812	54,349
488	Support activities for transportation	243	5,017	286,004	57,004
4881	Support activities for air transp.	73	2,467	77,268	31,316
4883	Support activities for water transp.	35	1,299	162,125	124,807
4884	Support activities for road transp.	66	672	15,576	23,175
4885	Freight transportation arrangement	66	509	28,043	55,139
492	Couriers & messengers	64	2,266	84,787	37,416
4921	Couriers and express delivery services	39	1,683	72,137	42,862
4922	Local messengers and local delivery	26	583	12,650	21,695

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2018* <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 22, 2019.

Table 18.56-- 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.