

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard expenditures & strength, civilian employment in national defense, veterans, land controlled by the Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 12, and 23.

The Hawaii State Department of Business, Economic Development & Tourism (DBEDT) has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs; and the Hawaii State Department of Labor and Industrial Relations and Department of Defense. Definitions used by these sources differ to some degree, and care is necessary in comparing data issued by two or more agencies. In mid-1996, for example, the number of armed forces in Hawaii was reported as 36,392 by DOD, 47,986 by the Bureau of the Census, and 43,019 by the local commanding officers reporting to DBEDT. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the *Statistical Abstract of the United States: 1997* presents data on national defense and veterans affairs for other states and the U.S. as a whole.

Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1995

[As of June 30, unless otherwise specified. 1950-1979 based on pre-service residence; 1980-1995, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1966	15,875	1981	11,927
1951	10,958	1967	18,048	1982	11,926
1952	16,594	1968	22,433	1983	11,641
1953	16,217	1969	15,856	1984	11,466
1954	16,189	1970	15,331	1985	10,827
1955	15,175	1971	13,600	1986	10,882
1956	15,243	1972	11,600	1987	10,896
1957	14,687	1973	10,200	1988	10,548
1958	13,310	1974	10,810	1989 2/	10,501
1959	12,596	1975	10,640	1990	10,052
1960 1/	12,662	1976	10,600	1991	10,076
1961	11,340	1977	10,640	1992	8,432
1962	13,464	1978	10,715	1993	7,621
1963	14,944	1979 1/	11,069	1994	5,098
1964	15,000	1980	11,851	1995 3/	4,237
1965	15,109				

1/ As of March 31 or April 1.

2/ U.S. military personnel stationed abroad as of December 31, 1989 included 3,782 whose home of record was Hawaii and 5,049 whose last duty station was Hawaii (data from U.S. Bureau of the Census, Press Clippings, CB90-28, July 23, 1990).

3/ For 1995, Defense Manpower Data Center does not include home-of-record for U.S. Air Force.

Source: 1950-1969 estimates by U.S. Bureau of the Census, in Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1977* (Statistical Report 120, September 9, 1977), table 5; 1970-1995 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1996**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ from similar series compiled by the Bureau of the Census and Department of Defense]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1980: April 1	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1	125,127	60,277	56,322	3,955	64,850	32,038
1988: July 1	133,958	64,053	60,621	3,432	69,905	34,535
1989: July 1	116,644	56,370	53,263	3,107	60,274	31,652
1990: April 1	113,833	53,898	50,681	3,217	59,935	30,934
1991: July 1	117,141	53,813	51,197	2,616	63,328	28,655
1992: July 1	109,959	52,965	50,206	2,759	56,994	23,751
1993: July 1	107,603	45,437	44,152	1,285	62,166	25,952
1994: July 1	98,531	44,193	42,790	1,403	54,338	27,478
1995: July 1	92,490	45,971	43,839	2,132	46,519	21,700
1996: July 1	98,356	43,019	40,457	2,562	55,337	24,667

1/ Ship crews living ashore are included with the total ashore.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated.

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1995 AND 1996**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense]

Island and service	Personnel and dependents	Military personnel				Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore		Living aboard ship		
			In hsg. units	In barracks			
1995							
State total	92,490	45,971	30,139	13,700	2,132	46,519	21,700
By island:							
Oahu	91,974	45,700	29,891	13,677	2,132	46,274	21,593
Hawaii	59	41	41	-	-	18	7
Maui	48	25	25	-	-	23	15
Kauai	409	205	182	23	-	204	85
By service:							
Air Force	11,589	4,684	4,128	556	-	6,905	3,075
Army	36,958	18,448	12,744	5,704	-	18,510	8,152
Coast Guard	3,060	1,500	1,324	100	76	1,560	700
Marine Corps	11,212	6,198	2,039	4,159	-	5,014	2,252
Navy	29,671	15,141	9,904	3,181	2,056	14,530	7,521
1996							
State total	98,356	43,019	27,890	12,567	2,562	55,337	24,667
By island:							
Oahu	97,867	42,811	27,711	12,538	2,562	55,056	24,531
Hawaii	105	42	42	-	-	63	30
Maui	77	29	29	-	-	48	19
Kauai	307	137	108	29	-	170	87
By service:							
Air Force	11,303	4,801	4,059	742	-	6,502	3,136
Army	37,504	15,827	10,894	4,933	-	21,677	8,965
Coast Guard	3,174	1,429	1,224	76	129	1,745	748
Marine Corps	11,091	5,876	2,197	3,679	-	5,215	2,849
Navy	35,284	15,086	9,516	3,137	2,433	20,198	8,969

Source: Hawaii State Department of Business, Economic Development & Tourism records.

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1989 TO 1997**

[As of September 30. Excludes Coast Guard]

Year	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1989	45,935	54,724	20,246
1990	41,887	51,727	19,857
1991	44,092	50,006	18,978
1992	44,864	47,671	17,893
1993	42,958	45,612	17,341
1994	42,161	39,989	17,038
1995	38,172	58,788	17,179
1996	36,392	57,786	16,824
1997	34,826	57,720	17,216

1/ Excludes Navy personnel afloat or temporary shore-based, e.g., 5,600 in 1995.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Includes Army personnel performing civil functions.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual), and at <<http://web1.whs.osd.mil/diorhome.htm>> and at <<http://web1.whs.osd.mil/mmid/mo1/fy96>>, and for 1997 <<http://web1.whs.osd.mil/mmid/m02/97city.htm>>, June 8, 1998.

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1996 AND 1997**

Category	All services	Army	Navy	Air Force	Marine Corps
1996					
Total	94,178	42,993	29,169	10,941	11,075
Military personnel 1/ Dependents 2/	36,392 57,786	15,225 27,768	10,643 18,526	4,571 6,370	5,953 5,122
1997					
Total	(NA)	(NA)	(NA)	(NA)	(NA)
Military personnel 1/ Dependents 3/	34,826 (NA)	15,249 (NA)	9,840 (NA)	3,614 (NA)	6,123 (NA)

NA Not available.

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel.

3/ Data on dependents of active-duty military personnel are limited to foreign countries only.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1996*, <<http://web1.whs.osd.mil/mmids/m02/m02city.htm>>, <<http://web1.whs.osd.mil/military/309A996.htm>>, <<http://web1.whs.osd.mil/mmids/m01/fy96/sms41ar.htm>>, *Ibid.*, *September 30, 1997* and <<http://web1.whs.osd.mil/military/309A996.htm>>.

Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1997

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	52,042	34,826	17,216
Aiea	765	544	221
Barbers Point NAS	1,321	926	395
Camp H.M. Smith	705	666	39
Ford Island	466	131	335
Fort Shafter	2,584	1,287	1,297
Hickam AFB	5,069	3,255	1,814
Honolulu	508	222	286
Kaneohe	6,085	5,471	614
Kunia	1,408	1,317	91
Lualualei	385	141	244
Pearl City	130	0	130
Pearl Harbor	15,134	7,310	7,824
Schofield Barracks	11,398	10,056	1,342
Tripler Army Med Ctr	2,548	1,416	1,132
Wahiawa	715	561	154
Wheeler AFB/Army Fld	2,007	1,339	668
Hawaii Island	116	2	114
Kauai Island	265	118	147
Other	433	64	369

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat or temporary shore-based.

2/ Direct hire. Army data include civil function personnel.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports at <http://web1.whs.osd.mil/mmids/m02/97cityi.htm>.

**Table 10.07-- FEDERAL DEFENSE EXPENDITURES ON HAWAII GROSS
STATE PRODUCT AND EMPLOYMENT: 1985 TO 1997**

[In millions of dollars unless otherwise indicated]

Year	Gross State Product (GSP)	Federal Defense				
		Expenditures			Employment	
		Total	Percent change from year previous	As percent of GSP	Civilian jobs	Armed forces 1/
1985	17,139.7	3,054.9	(NA)	17.3	20,736	56,383
1986	18,483.0	3,031.4	-0.8	15.9	20,223	58,122
1987	20,027.3	3,023.6	-0.3	14.6	20,008	58,122
1988	22,324.0	3,145.6	4.0	13.7	20,280	56,815
1989	24,574.7	3,269.3	3.9	12.9	20,060	56,360
1990	27,033.6	3,335.8	2.0	12.0	19,466	55,333
1991	28,614.4	3,649.9	9.4	12.4	18,956	54,738
1992	30,259.6	3,833.9	5.0	12.3	17,955	55,099
1993	31,171.9	3,722.4	-2.9	11.6	17,450	52,674
1994	31,965.3	3,797.2	2.0	11.5	16,850	52,845
1995	32,723.7	3,744.2	-1.4	11.1	16,750	50,729
1996	33,509.1	3,939.0	5.2	11.4	16,719	47,986
1997	34,179.3	4,109.1	4.3	11.7	16,477	44,542

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. See table 1.03 for historical data.

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

**Table 10.08-- FEDERAL EXPENDITURES FOR ARMY AND AIR
NATIONAL GUARD FOR HAWAII: 1997**

[In dollars. Fiscal year ended September 30]

Category	Army	Air
Total Federal support for National Guard in Hawaii	53,006,291	78,454,685
Total Funds allotted by National Guard to Hawaii	35,700,186	59,065,615
National Guard Personnel Appropriation	8,211,257	1,263,630
Military pay, transportation, and subsistence	7,322,995	929,349
Military uniform	619,645	193,708
Subsistence	268,617	140,573
Oper. and maintenance, military construction approp. - Army	25,224,219	57,801,985
Civilian pay	14,399,003	38,450,571
Transportation and travel	1,241,014	720,847
Personnel	367,709	688,633
Equipment and supplies	873,305	32,214
Equipment, supplies and service	5,664,430	18,630,567
Organizational equipment	865,781	755,644
Petroleum, oils and lubricants	623,306	(NA)
Repair parts and services	1,711,888	(NA)
Other operating supplies and services	2,463,455	(NA)
Supplies	(NA)	3,691,567
Depot level repairables	(NA)	7,818,694
Aviation fuel	(NA)	0
Other operating supplies and services	(NA)	1,060,291
Construction repairs	(NA)	5,304,371
Major construction	(NA)	2,730,303
Major construction/major repairs	(NA)	1,128,168
Operations and maintenance agreements	(NA)	1,445,900
Construction, repairs, and utilities	3,919,772	(NA)
Armory construction	188,698	(NA)
Architectural and engineering services	81,562	(NA)
Non-armory construction	425,000	(NA)
Maintenance, repairs, and minor construction	3,069,311	(NA)
Utilities	155,201	(NA)
Oper. and maintenance Def. Approp.-Army Youth ChalleNGe	2,264,710	(NA)
Total Funded directly by National Guard Bureau	17,306,105	19,389,070
Army drill pay	7,083,150	(NA)
AGR pay	10,222,955	(NA)
Annual training pay	(NA)	2,287,224
Other active duty pay	(NA)	2,321,827
Inactive duty training pay	(NA)	6,720,394
Basic training pay	(NA)	803,083
Active Guard Reserve pay	(NA)	7,256,542

NA Not available.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 1997*, p. 47.

Table 10.09-- NATIONAL GUARD STRENGTH: 1990 TO 1997

[Actual strength 1/]

Year	Total	Air National Guard	Army National Guard
1990	5,711	2,124	3,587
1991	5,632	2,078	3,554
1992	5,628	2,128	3,500
1993	5,632	2,241	3,391
1994	5,611	2,131	3,480
1995	5,668	2,310	3,358
1996	5,415	2,386	3,029
1997	5,511	2,391	3,120

1/ As of late June for 1990-1995, late November for 1996, September 30 for 1997.

Source: Hawaii State Department of Defense, records for 1990-96 and Ibid., *Annual Report Fiscal Year 1997*, p. 47.

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND
NAVY: ANNUAL AVERAGES, 1990 TO 1997**

Service	1990	1991	1992	1993	1994	1995	1996	1997
Total	19,350	18,850	18,100	17,450	16,850	16,750	16,800	16,300
Air Force	2,300	2,250	2,200	2,150	2,000	2,100	1/ 2,100	2,050
Army	5,600	5,400	4,800	4,600	4,600	4,450	1/ 4,850	5,000
Navy	11,450	11,200	11,100	10,700	10,250	10,200	1/ 9,850	9,250

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; <<http://www.hawaii.gov/workforce/cess90s.txt>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.11-- ACTIVE-DUTY RECRUITMENT IN HAWAII AND THE PACIFIC,
BY BRANCH OF SERVICE: 1992 TO 1996**

[By fiscal year]

Branch of Service	1992	1993	1994	1995	1996
Air Force 1/	(NA)	(NA)	(NA)	265	362
Army 2/	254	278	323	379	403
Marine Corps	(NA)	(NA)	(NA)	53	80
Navy: Hawaii	117	119	128	159	200
Navy: Guam	43	50	73	82	126

NA Not available.

1/ Total includes Hawaii, Alaska, Guam, American Samoa, and other Pacific Islands, Americans in Asia.

2/ Total includes Hawaii, Guam, American Samoa, and other Pacific Islands, Americans in Asia.

Source: *Honolulu Star Bulletin*, January 2, 1997, pp. A-1 and 11.

**Table 10.12-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1993 TO 1997**

[In thousands of dollars. Fiscal years ended September 30.
Net value of Department of Defense prime contracts over \$25,000]

Procurement program 1/	1993 2/	1994	1995	1996	1997
Total	631,020	803,297	673,640	928,480	957,353
Airframes and spares	-	-	-	39	581
Aircraft engines and spares	-	-	-	89	-
Other aircraft equipment	164	-	34	67	-
Missile and space systems	6,592	7,975	20,452	6,088	9,694
Ships	11,615	22,049	23,789	18,140	18,394
Electronics and communication equipment	24,888	25,855	26,485	30,838	36,222
Petroleum	56,939	26,056	34,574	33,633	47,883
Containers and hauling equipment	-	-	1,039	-	-
Textiles, clothing, and equipage	-	-	75	124	-
Building supplies	559	811	747	584	576
Subsistence	15,322	13,121	11,544	8,436	9,158
Production equipment	30	26	-	-	-
Construction	272,165	484,046	318,231	513,290	524,134
Construction equipment	-	-	-	-	124
Transportation equipment	-	-	-	-	64
Medical and dental supplies and equipment	1,091	1,876	1,245	6,255	5,823
Photographic supplies and equipment	79	39	45	-	-
Materials handling equipment	-	-	-	-	8,089
All other supplies and equipment	21,153	23,891	34,841	55,974	40,487
Services	220,423	197,551	200,537	253,294	256,123

1/ Procurement programs with no expenditures for the 1993-97 period are: Combat vehicles, Non-combat vehicles, Weapons, Ammunition, and Other fuels and lubricants.

2/ Revised.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Years 1993, 1992, and 1991*, p. 29; and <<http://web1.whs.osd.mil/peidhome/geostats/P06/P6Hawaii.htm>>.

**Table 10.13-- ACREAGE OWNED OR CONTROLLED BY THE U.S.
DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND
BY ISLANDS: 1992**

Branch of service and island	Total acreage	Owned in fee or ceded	Leased land
All branches	238,937	167,248	71,689
Branch of service:			
Air Force	5,867	5,286	581
Army	151,927	105,633	46,294
Marines	27,950	3,643	24,307
Navy	53,193	52,686	507
Island:			
Hawaii	101,882	84,822	17,060
Maui	8	5	3
Kahoolawe	28,777	28,777	-
Lanai	-	-	-
Molokai	6,319	12	6,307
Oahu	81,459	51,602	29,857
Kauai	20,384	1,922	18,462
Niihau	-	-	-
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: *The Honolulu Advertiser*, November 16, 1992, p. A2.

**Table 10.14-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY
SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995**

Geographic area	All services	Air Force	Army	Coast Guard	Marine Corps	Navy
State total	21,060	3,189	8,389	326	2,095	7,061
Oahu	20,971	3,189	8,386	309	2,095	6,992
Other islands	89	-	3	17	-	69

Source: Hawaii State Department of Business, Economic Development & Tourism, *Statistical Report 230, Housing Unit Estimates for Hawaii, 1980-1995* (September 1996).

**Table 10.15-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1995**

Veteran status	Civilian males		All civilians 1/			
	1970	1980	1980	1990	1994	1995
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000	116,000
War Veteran	75,026	82,230	85,322	87,301	86,000	85,000
Persian Gulf War	-	-	-	-	5,000	6,000
Vietnam era	20,548	36,441	38,136	41,860	42,000	42,000
Korean conflict	20,006	21,860	22,351	22,362	21,000	20,000
World War II	34,486	31,170	32,156	32,551	28,000	27,000
World War I	2,501	824	854	132	(Z)	-
Peacetime veterans only	14,072	16,403	18,452	31,955	30,000	31,000
Nonveterans	134,475	218,018	561,262	682,261	(NA)	(NA)

Z Less than 500.

NA Not available.

1/ Not available for female civilians before 1980.

2/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, *1970 Census of Population, PC(1)-C13*, table 50; *1980 Census of Population, PC80-1-D13*, table 204; *1990 Census of Population, Social and Economic Characteristics, Hawaii, 1990 CP-2-13* (Sept. 1993), table 23; 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1996*, p. 362; and *Ibid.*, 1997, p. 365.

**Table 10.16-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1996 AND 1997**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
1996				
Department of Defense	13,885	12,525	18,998	1,517
Army	5,591	4,949	6,806	1,375
Navy	3,892	3,531	5,649	1,600
Marine Corps	919	821	1,460	1,778
Air Force	3,483	3,224	5,083	1,577
Addendum 3/: Coast Guard	249	241	449	1,863
1997				
Department of Defense	14,049	12,659	19,624	1,550
Army	5,619	4,972	7,006	1,409
Navy	3,934	3,561	5,818	1,634
Marine Corps	941	843	1,525	1,809
Air Force	3,555	3,283	5,275	1,607
Addendum 3/: Coast Guard	251	240	442	1,842

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc. Calculated by Hawaii State Department of Business, Economic Development & Tourism as Monthly Payment (in dollars) divided by Number Paid by DOD.

3/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals.

Source: U.S. Department of Defense, Office of the Actuary, *FY 1996 DOD Statistical Report on the Military Retirement System* (1997), p. 20 and *ibid: FY 1997* (1998).