

## Section 10

# NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard 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-1988, for example, the number of armed forces in Hawaii was reported as 45,843 by DOD, 56,815 by the Bureau of the Census, and 64,053 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: 1996* 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 preservice 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; 1970-1994 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 (DBEDT), annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated. For 1980-96, DBEDT, *Military Personnel and Dependents in Hawaii*, 1995 and 1996 (forthcoming).

**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. As of July 1]

Island and service	Personnel and dependents	Military personnel				Living aboard ship	Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore					
			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, *Military Personnel and Dependents in Hawaii, 1995 and 1996* (forthcoming).

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND  
DEPENDENTS: 1989 TO 1996**

[As of September 30. Excludes Coast Guard]

<b>Year</b>	<b>Active-duty shore-based military personnel 1/</b>	<b>Dependents of active-duty military personnel 2/</b>	<b>Direct-hire civilian personnel 3/</b>
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	4/ 17,038
1995	38,172	58,788	17,179
1996	36,392	57,786	16,824

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.

4/ Revised.

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 <http://web1.whs.osd.mil/mmid/mo1/fy96>.

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1995 AND 1996**

<b>Category</b>	<b>All services</b>	<b>Army</b>	<b>Navy</b>	<b>Air Force</b>	<b>Marine Corps</b>
1995					
Total	96,960	43,433	31,224	11,091	11,212
Military personnel 1/ Dependents 2/	38,172 58,788	16,672 26,761	10,738 20,486	4,564 6,527	6,198 5,014
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

1/ Active duty. Data exclude personnel afloat or temporary shore-based. Approximately 5,600 Navy military personnel in an "afloat" status have Hawaii as their operating location.

2/ Dependents of active-duty military personnel.

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, 1995* and at <http://web1.whs.osd.mil/mmid/m02/m02city.htm>, *September 30, 1996* and at <http://web1.whs.osd.mil/military/309A996.htm> and <http://web1.whs.osd.mil/mmid/m01/fy96/sms41ar.htm>.

**Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1994**

<b>Installation or geographic area</b>	<b>Total DOD</b>	<b>Military personnel 1/</b>	<b>Civilian personnel 2/</b>
State total	59,199	42,161	17,038
Aiea	523	311	212
Barbers Point NAS	3,085	2,671	414
Camp H. M. Smith	730	705	25
Ford Island	121	101	20
Fort Shafter	3,013	1,189	1,824
Hickam AFB	4,805	3,515	1,290
Honolulu	604	322	282
Kaneohe	6,720	6,187	533
Kauai Island	272	115	157
Kunia	600	551	49
Lualualei	425	175	250
Pearl City 3/	-	-	-
Pearl Harbor	15,710	6,942	8,768
Schofield Barracks	17,219	16,248	971
Tripler Army Medical Center	3,052	1,890	1,162
Wahiawa	597	482	115
Wheeler AFB	1,073	628	445
Other	650	129	521

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.

3/ Included for comparability. Pearl City is not listed in the FY94 report but it is listed in the FY95.

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, 1994* and at <http://web1.whs.osd.mil/mmid/m02/m02city.htm>.

**Table 10.07-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1995**

<b>Installation or geographic area</b>	<b>Total DOD</b>	<b>Military personnel 1/</b>	<b>Civilian personnel 2/</b>
State total	54,071	36,892	17,179
Aiea	706	490	216
Barbers Point NAS	1,433	1,048	385
Camp H. M. Smith	752	723	29
Ford Island	225	214	11
Fort Shafter	3,043	1,365	1,678
Hickam AFB	4,801	3,597	1,204
Honolulu	758	283	475
Kaneohe	6,021	5,511	510
Kauai	271	117	154
Kunia	634	581	53
Lualualei	405	157	248
Pearl City	116	2	114
Pearl Harbor	15,059	6,446	8,613
Schofield Barracks	12,416	11,218	1,198
Tripler Army Medical Center	2,919	1,641	1,278
Wahiawa	591	467	124
Wheeler AFB/Army Field	3,364	2,941	423
Other	557	91	466

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, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1995* and at <http://web1.whs.osd.mil/diorhome.htm>.



**Table 10.08-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1996**

<b>Installation or geographic area</b>	<b>Total DOD</b>	<b>Military personnel 1/</b>	<b>Civilian personnel 2/</b>
State total	51,238	34,414	16,824
Aiea	766	544	222
Barbers Point NAS	1,316	927	389
Camp H. M. Smith	(3/)	(3/)	(3/)
Ford Island	(3/)	(3/)	(3/)
Fort Shafter	2,878	1,120	1,758
Hickam AFB	4,898	3,733	1,165
Honolulu	(3/)	(3/)	(3/)
Kaneohe	5,916	5,329	587
Kauai Island	(3/)	(3/)	(3/)
Kunia	808	751	57
Lualualei	(3/)	(3/)	(3/)
Pearl City	(3/)	(3/)	(3/)
Pearl Harbor	14,256	6,240	8,016
Schofield Barracks	11,332	10,014	1,318
Tripler Army Medical Center	2,807	1,482	1,325
Wahiawa	(3/)	(3/)	(3/)
Wheeler AFB	2,995	2,607	388
Others not available separately 3/	3,266	1,667	1,599

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.

3/ Personnel at all facilities will be available in the 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*, forthcoming.

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/103/96hi.htm>.

**Table 10.09-- NATIONAL GUARD STRENGTH: 1990 TO 1996**

[Actual strength as of late June for 1990-1995, late November for 1996]

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

Source: Hawaii State Department of Defense, records.

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND  
NAVY: ANNUAL AVERAGES, 1990 TO 1996**

<b>Service</b>	<b>1990</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>
Total	19,350	18,850	18,100	17,450	16,850	16,750	16,800
Air Force	2,300	2,250	2,200	2,150	2,000	2,100	2,050
Army	5,600	5,400	4,800	4,600	4,600	4,450	4,950
Navy	11,450	11,200	11,100	10,700	10,250	10,200	9,800

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; 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]

<b>Branch of Service</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>
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 1996**

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

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

1/ Procurement programs with no expenditures for the 1993-96 period are: Combat vehicles, Non-combat vehicles, Weapons, Ammunition, Other fuels and lubricants, and Transportation.

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**

<b>Branch of service and island</b>	<b>Total acreage</b>	<b>Owned in fee or ceded</b>	<b>Leased land</b>
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**

<b>Geographic area</b>	<b>All services</b>	<b>Air Force</b>	<b>Army</b>	<b>Coast Guard</b>	<b>Marine Corps</b>	<b>Navy</b>
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 1994**

Veteran status	Civilian males		All civilians 1/		
	1970	1980	1980	1990	1994
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000
War Veteran	75,026	82,230	85,322	87,301	86,000
Persian Gulf War	-	-	-	-	5,000
Vietnam era	20,548	36,441	38,136	41,860	42,000
Korean conflict	20,006	21,860	22,351	22,362	21,000
World War II	34,486	31,170	32,156	32,551	28,000
World War I	2,501	824	854	132	(Z)
Peacetime veterans only	14,072	16,403	18,452	31,955	30,000
Nonveterans	134,475	218,018	561,262	682,261	(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; and 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1996*, p. 362.



**Table 10.16-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM  
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1994 AND 1995**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
1994				
Department of Defense	13,408	12,144	17,981	1,481
Army	5,426	4,846	6,522	1,346
Navy	3,747	3,407	5,286	1,552
Marine Corps	910	817	1,391	1,703
Air Force	3,325	3,074	4,781	1,555
Coast Guard 3/	245	232	417	1,797
1995				
Department of Defense	13,778	12,459	18,659	1,498
Army	5,568	4,952	6,741	1,361
Navy	3,851	3,504	5,526	1,577
Marine Corps	918	817	1,413	1,729
Air Force	3,441	3,186	4,979	1,563
	13,778	12,459	18,659	1,498
Addendum 3/:				
Department of Transportation 3/	251	240	442	1,842
Coast Guard 3/	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 1994 DOD Statistical Report on the Military Retirement System* (1995), p. 20 and *ibid: FY 1994* (1996).