

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, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 12, and 23.

There were approximately 44,000 officers and enlisted men (including 1,400 aboard ships homeported in Hawaii) and 54,000 military dependents in the Islands as of July 1, 1994. These numbers have declined significantly in recent years. At the height of World War II more than 400,000 uniformed personnel were present. The Army accounts for almost half of the current total. About 5,100 Hawaii residents were in the armed forces worldwide in 1994. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$631 million), civilian employment (16,900), veterans in civil life (117,000), military personnel receiving retired pay (12,100, receiving \$18 million monthly), military-connected pupils in public schools (19,800), military housing (21,000 units), and land owned or controlled by the armed forces (239,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Business, Economic Development & Tourism 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, Department of Defense, and Department of Education. Definitions used by these sources frequently differ to some degree, and care is accordingly 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: 1995* presents data on national defense and veterans affairs for other states and the entire nation.

Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1994

[As of June 30, unless otherwise specified. 1950-1979 based on preservice residence; 1980-1994, on home of record]

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

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).

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, in Hawaii State Department of Business, Economic Development & Tourism, *The State of Hawaii Data Book* (annual).

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1994**

[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]

Date	Personnel and dependents	Military personnel <u>1/</u>			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

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

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, 1994**

[See headnote to preceding table]

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			
State total	98,531	44,193	24,765	18,025	1,403	54,338	27,478
By island:							
Oahu.....	98,073	43,997	24,609	17,985	1,403	54,076	27,340
Hawaii.....	138	60	60	-	-	78	47
Maui.....	34	13	13	-	-	21	15
Kauai.....	286	123	83	40	-	163	76
Kure Atoll 1/...	-	-	-	-	-	-	-
By service:							
Air Force.....	11,435	5,254	4,784	470	-	6,181	3,733
Army.....	43,769	19,365	11,954	7,411	-	24,404	11,661
Coast Guard ..	3,060	1,500	1,324	100	76	1,560	700
Marine Corps	12,479	6,864	2,258	4,606	-	5,615	2,507
Navy.....	27,788	11,210	4,445	5,438	1,327	16,578	8,877

1/ Disestablished effective July 2, 1992.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS: 1989 TO 1994**

[As of September 30. Excludes Coast Guard]

Year	Active-duty shore-based military personnel <u>1/</u>	Dependents of active-duty military personnel <u>2/</u>	Direct-hire civilian personnel <u>3/</u>
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	16,784

1/ Excludes Navy personnel afloat or temporary shore-based.

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).

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1994**

Category	All services	Army	Navy	Air Force	Marine Corps
Total.....	82,150	32,698	25,835	11,429	12,188
Military personnel <u>1/</u>	42,161	19,485	11,510	4,682	6,484
Dependents <u>2/</u>	39,989	13,213	14,325	6,747	5,704

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

2/ Dependents of active-duty military personnel.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, letter dated July 14, 1995.

**Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND
CIVILIAN, BY LOCATION: SEPTEMBER 30, 1993**

Installation or geographic area	Total DOD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	60,299	42,958	17,341
Aiea.....	851	610	241
Barbers Point NAS	2,571	2,176	395
Camp H. M. Smith.....	723	718	5
Ford Island	497	459	38
Fort Shafter	3,083	1,222	1,861
Hickam AFB	4,841	3,525	1,316
Honolulu.....	590	333	257
Kaneohe.....	8,281	7,758	523
Kauai.....	260	120	140
Kunia.....	477	428	49
Lualualei.....	452	185	267
Pearl Harbor.....	16,098	7,147	8,951
Schofield Barracks	16,064	15,057	1,007
Tripler Army Medical Center.....	3,072	1,900	1,172
Wahiawa	601	466	135
Wheeler AFB.....	1,093	692	401
Other.....	745	162	583

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, 1993*, pp. 8 and 31.

Table 10.07-- NATIONAL GUARD STRENGTH: 1990 TO 1995

[Actual strength as of late June]

Service	1990	1991	1992	1993	1994	1995
Total	5,711	5,632	5,628	5,632	5,611	5,668
Air National Guard.....	2,124	2,078	2,128	2,241	2,131	2,310
Army National Guard.....	3,587	3,554	3,500	3,391	3,480	3,358

Source: Hawaii State Department of Defense, records.

Table 10.08-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1989 TO 1994

Service	1989	1990	1991	1992	1993	1994
Total	20,100	19,350	18,850	18,000	17,450	16,900
Air Force.....	2,350	2,300	2,250	2,200	2,150	2,000
Army.....	5,550	5,600	5,400	4,800	4,600	4,700
Navy.....	12,200	11,450	11,200	11,000	10,700	10,200

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual).

**Table 10.09-- NATIONAL DEFENSE EXPENDITURES AS ESTIMATED BY
ALTERNATE SOURCES: 1990 TO 1994**

[Millions of dollars]

Source	1990	1991	1992	1993	1994
Bureau of the Census <u>1/</u>	2,604	2,936	2,893	2,928	3,196
Bureau of Economic Analysis <u>2/</u>	2,058	2,253	2,423
DBEDT <u>3/</u>	3,336	3,650	3,834	3,717	3,671

1/ Department of Defense expenditures in Hawaii for years ended September 30. Data from present report, table 9.29.

2/ Calendar year estimates of gross state product for Hawaii attributable to federal military. Data from Bureau of Economic Analysis diskettes tabulated by DBEDT.

3/ Calendar year estimates of defense expenditures in Hawaii, prepared by DBEDT. From present report, table 13.01.

Source: See footnotes.

**Table 10.10-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1991 TO 1993**

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

Procurement program	1991	1992	1993
Total	697,127	622,729	631,020
Ships	6,771	14,621	11,615
Electronics and communication equipment.....	20,751	35,863	24,888
Petroleum.....	57,295	60,981	56,939
Subsistence.....	12,494	19,380	15,322
Construction	312,601	282,607	272,165
Services	254,257	177,612	220,423
All other procurement programs	32,958	31,666	29,668

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.

Table 10.11-- 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: *Honolulu Advertiser*, November 16, 1992, p. A2.

Table 10.12-- 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, *Housing Unit Estimates for Hawaii, 1980-1995* (in preparation).

**Table 10.13-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1994**

Veteran status	Civilian males		All civilians <u>1/</u>		
	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 veterans <u>2/</u>	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: 1995*, p. 368.

**Table 10.14-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1994**

Service	Number of personnel		Monthly payment <u>2/</u> (\$1,000)	Payment per person paid <u>2/</u> (dollars)
	Retired <u>1/</u>	Paid by DOD		
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 <u>3/</u>	245	232	417	1,797

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.

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.