

## 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, 6, 12, 13, 14, and 23.

There were approximately 54,000 officers and enlisted men (including 3,200 aboard ships homeported in Hawaii) and 61,000 military dependents in the Islands as of April 1, 1990. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Army accounts for 37 percent of the current total. More than 10,000 Hawaii residents were in the armed forces worldwide in 1990. The importance of national defense in Hawaii can be further measured by total expenditures (\$2 billion), military prime contract awards (\$579 million), civilian employment (20,000), veterans in civil life (100,000), military personnel receiving retired pay (11,200, receiving \$14 million monthly), military-connected pupils in public schools (20,100), military housing (19,400 units), and land owned or controlled by the armed forces (over 265,000 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 DBED. 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: 1990 presents data on national defense and veterans affairs for other states and the entire nation.

Table 309.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE  
ARMED FORCES WORLDWIDE: 1970 TO 1990

[As of June 30. Based on home of record]

Year	Number	Year	Number	Year	Number
1970 .....	15,331	1985 ....	10,827	1988 .....	10,548
1975 .....	10,640	1986 ....	10,882	1989 1/ ..	10,501
1980 .....	11,851	1987 ....	10,896	1990 .....	10,052

1/ 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 U.S. duty station was Hawaii.

Source: U.S. Department of Defense, Defense Manpower Data Center, records; U.S. Bureau of the Census, "Press Clippings," CB90-28, July 23, 1990.

Table 310.-- DEPARTMENT OF DEFENSE PERSONNEL AND  
DEPENDENTS: 1984 TO 1989

[As of September 30]

Year	Active-duty shorebased military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1984 .....	47,648	54,190	20,539
1985 .....	46,875	55,552	20,762
1986 .....	46,122	53,428	20,536
1987 .....	47,262	52,438	20,243
1988 .....	45,843	54,820	20,133
1989 .....	43,792	54,724	20,246

1/ Excludes those performing civilian functions, Navy personnel afloat unless temporarily shorebased, and all Coast Guard personnel.

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

3/ Military functions only.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, Department of Defense Selected Manpower Statistics (annual).

Table 311.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1990

[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, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel <sup>1/</sup>			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
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

<sup>1/</sup> Beginning in 1982, 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.

Table 312.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: APRIL 1, 1990

[See headnote to preceding table]

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				
State total	113,833	53,898	32,044	18,637	3,217	59,935	30,934	
By island:								
Oahu .....	113,190	53,575	31,811	18,554	3,210	59,615	30,730	
Hawaii .....	257	130	96	28	6	127	90	
Maui .....	54	25	24	-	1	29	14	
Kauai .....	308	147	110	37	-	161	99	
Kure Atoll ....	24	21	3	18	-	3	1	
By service:								
Air Force .....	13,945	5,797	4,477	1,320	-	8,148	3,402	
Army .....	42,409	18,693	11,114	7,579	-	23,716	9,357	
Coast Guard ...	2,064	965	715	88	162	1,099	535	
Marine Corps ..	16,907	9,879	4,513	5,366	-	7,028	4,858	
Navy .....	38,508	18,564	11,225	4,284	3,055	19,944	12,782	

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

Table 313.-- NATIONAL GUARD STRENGTH: 1985 TO 1990

[Actual strength as of late June]

Service	1985	1986	1987	1988	1989	1990
Total .....	6,096	5,882	5,814	5,838	5,769	5,711
Air National Guard ...	2,227	2,197	2,190	2,187	2,159	2,124
Army National Guard ..	3,869	3,685	3,624	3,651	3,610	3,587

Source: Hawaii State Department of Defense, Annual Report for 1985 and 1986, and records.

Table 314.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,  
BY SERVICE: SEPTEMBER 30, 1989

Category	All services	Army	Navy	Air Force	Other DoD
Total .....	64,038	24,130	31,737	8,050	121
Military personnel 1/ .....	43,792	18,788	19,332	5,672	-
Civilian personnel 2/ .....	20,246	5,342	12,405	2,378	121

Footnotes and source follow next table.

Table 315.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,  
BY LOCATION: SEPTEMBER 30, 1989

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total .....	64,038	43,792	20,246
Aiea .....	723	425	298
Barbers Point NAS .....	1,700	1,338	362
Camp H. M. Smith .....	1,069	1,069	-
Ford Island .....	393	357	36
Fort Shafter .....	2,000	-	2,000
Hickam AFB .....	7,878	5,806	2,072
Honolulu .....	2,235	1,831	404
Kaneohe .....	8,719	8,002	717
Kapalama .....	263	30	233
Kauai .....	263	138	125
Kunia .....	1,476	1,422	54
Lualualei .....	481	213	268
Pearl Harbor .....	18,022	7,541	10,481
Schofield Barracks .....	14,974	13,871	1,103
Tripler Army Medical Center .....	1,049	-	1,049
Wahiawa .....	835	653	182
Wheeler AFB .....	1,427	926	501
Other .....	531	170	361

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat and 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, 1989, pp. 6 and 28.

Table 316.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:  
ANNUAL AVERAGES, 1984 TO 1989

Service	1984	1985	1986	1987	1988	1989
Total .....	20,600	20,750	20,400	20,150	20,200	20,150
Air Force .....	2,650	2,650	2,650	2,550	2,450	2,350
Army .....	5,000	5,400	5,600	5,600	5,500	5,550
Navy .....	12,950	12,700	12,150	11,950	12,250	12,250

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1990.

Table 317.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1987 TO 1989

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

Procurement program	1987	1988	1989
Total .....	461,449	540,991	578,733
Ships .....	14,352	14,459	25,529
Electronics and communication equipment ...	23,256	34,798	32,645
Petroleum .....	7,043	72,585	38,240
Construction .....	240,764	250,616	262,044
Services .....	150,039	139,167	191,413
All other procurement programs .....	25,995	29,366	28,862

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1989, 1988, and 1987, p. 29.

Table 318.-- DEFENSE EXPENDITURES: 1979 TO 1989

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1979 .....	1,221,784	497,840	372,596	351,348
1980 .....	1,317,402	533,691	418,759	364,952
1981 .....	1,449,328	612,761	450,684	385,883
1982 .....	1,693,410	716,841	508,569	468,000
1983 .....	1,848,175	793,782	558,220	496,175
1984 .....	1,867,189	828,787	582,531	455,872
1985 <u>1/</u> .....	1,965,430	839,851	611,437	514,138
1986 <u>1/</u> .....	1,784,868	822,954	601,476	360,437
1987 <u>1/</u> <u>2/</u> .....	1,856,970	861,174	576,891	418,904
1988 .....	1,892,363	890,698	602,546	399,119
1989 .....	2,038,204	970,773	635,237	432,193
SERVICE: 1988				
Air Force .....	224,584	106,267	35,700	82,617
Army .....	857,182	435,598	131,001	290,584
Coast Guard ....	30,325	24,617	3,305	2,403
Navy and Marine Corps <u>1/</u> .....	780,271	324,216	432,540	23,515
SERVICE: 1989				
Air Force .....	223,159	106,187	36,886	80,085
Army .....	924,006	461,240	138,494	324,273
Coast Guard <u>2/</u> .	30,855	26,045	3,287	1,523
Navy and Marine Corps <u>1/</u> .....	860,184	377,301	456,571	26,312

1/ Excludes Navy contract purchases from vendors in the State of Hawaii.

2/ Revised.

Source: Quarterly reports submitted to DBED by armed forces.



Table 319.-- ACREAGE OWNED OR CONTROLLED BY THE U.S. DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND BY ISLANDS: APRIL 1987

Branch of service and island	Total acreage	Owned in fee	Ceded land <u>1/</u>	Other land <u>2/</u>
All branches .....	265,402	26,406	146,187	92,809
Branch of service:				
Air Force .....	6,081	2,496	2,827	757
Army .....	165,807	4,058	101,688	60,061
Navy and Marine Corps ....	93,514	19,851	41,672	31,991
Island:				
Hawaii .....	108,928	4	84,819	24,105
Maui .....	8	5	-	3
Kahoolawe .....	28,777	-	28,777	-
Lanai .....	-	-	-	-
Molokai .....	6,319	-	12	6,307
Oahu .....	93,888	26,397	30,546	36,945
Kauai .....	27,371	-	1,925	25,446
Niihau .....	3	-	-	3
Kaula .....	108	-	108	-
Northwestern Hawaiian Islands, exc. Midway ...	-	-	-	-

1/ Includes 4,962 acres of submerged Navy land in Pearl Harbor.

2/ Held under lease, license, or permit. Includes 31,283 acres of Navy land used for intermittent training with no permanent occupancy and subject to restrictions.

Source: Hawaii State Department of Business and Economic Development, Land Ownership in Hawaii 1987 (Statistical Report 208, September 1988), pp. 7-10.

Table 320.-- HOUSING UNITS OWNED OR OPERATED BY THE ARMED FORCES, BY COUNTIES: APRIL 1, 1989 AND 1990

Year	State total	Hono- lulu	Hawaii	Kauai	Maui
1989 .....	19,368	19,290	12	60	6
1990 .....	19,378	19,295	15	62	6

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing Unit Estimates for Hawaii (annual).

Table 321.-- VETERANS IN CIVIL LIFE: 1980 AND 1990

Period of service	March 31, 1980	March 31, 1990
Total veterans <u>1/</u> .....	94,000	100,000
Wartime veterans <u>1/</u> .....	78,000	78,000
Vietnam era .....	33,000	36,000
Korean conflict .....	20,000	20,000
World War II .....	30,000	31,000
World War I .....	1,000	(Z)
Peacetime veterans .....	15,000	22,000
Post-Vietnam era only <u>2/</u> .....	3,000	10,000
Between Korea and Vietnam only .....	13,000	10,000
Other peacetime veterans <u>3/</u> .....	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (annual report).

Table 322.-- VETERANS WHO SERVED IN HAWAII, MIDWAY, OR OTHER ISLANDS IN THE NORTH PACIFIC, BY PERIOD OF SERVICE: 1987

[Response to question, "In which of these places did you serve, sail in, or fly missions over while on active duty in the United States Armed Forces? If on board ship in surrounding waters, mark the nearest geographical area"]

Period of service	Number (millions)	Percent of living veterans
All veterans .....	4.31	16.5
Wartime veterans <u>1/</u> .....	3.92	18.0
World War II .....	2.10	21.1
Korea .....	1.12	21.0
Vietnam .....	1.56	19.1
Peacetime veterans .....	0.40	9.1

1/ Unduplicated total (some veterans served in more than one period).

Source: U.S. Department of Veteran Affairs, 1987 Survey of Veterans (July 1989), p. 16.

Table 323.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1989

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		
Dept. of Defense .....	12,332	11,226	14,244	1,269
Army .....	5,041	4,489	5,235	1,166
Navy .....	3,411	3,133	4,048	1,292
Marine Corps .....	833	748	1,092	1,460
Air Force .....	3,047	2,856	3,870	1,355

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.

Source: U.S. Department of Defense, Office of the Actuary, FY 1989 DOD Statistical Report on the Military Retirement System (1990), p. 20.