

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 56,000 officers and enlisted men (including 3,100 aboard ships homeported in Hawaii) and 60,000 military dependents in the Islands as of July 1, 1989. 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 Navy alone accounts for 36 percent of the current total. More than 10,000 Hawaii residents were in the armed forces worldwide in 1988. The importance of national defense in Hawaii can be further measured by total expenditures (\$1.89 billion), military prime contract awards (\$541 million), civilian employment (20,000), veterans in civil life (100,000), military personnel receiving retired pay (10,900, receiving \$13.5 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 and Economic Development has issued periodic reports on Military Personnel and Dependents in Hawaii 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: 1989 presents data on national defense and veterans affairs for other states and the entire nation.

Table 303.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1989

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

Year	Number	Year	Number	Year	Number
1970	15,331	1984	11,466	1987	10,896
1975	10,640	1985	10,827	1988	10,548
1980	11,851	1986	10,882	1989	10,501

Source: U.S. Department of Defense, Defense Manpower Data Center, records.

Table 304.-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS: 1980 TO 1988

[As of September 30]

Year	Active-duty shorebased military personnel <u>1/</u>	Dependents of active-duty military personnel <u>2/</u>	Direct-hire civilian personnel <u>3/</u>
1980	43,313	53,533	18,186
1981	44,141	50,324	18,814
1982	44,470	56,497	19,497
1983	44,651	51,119	20,005
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

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 305.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1989

[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 <u>1/</u>			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

1/ Beginning in 1982, ship crews living ashore are included with the ashore total.

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

Table 306.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1989

[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	116,644	56,370	36,765	16,498	3,107	60,274	31,652	
By island:								
Oahu	116,126	56,099	36,587	16,412	3,100	60,027	31,524	
Hawaii	165	78	59	15	4	87	41	
Maui	63	32	29	-	3	31	18	
Kauai	265	136	79	57	-	129	69	
Kure Atoll	25	25	11	14	-	-	-	
By service:								
Air Force	14,282	5,480	4,384	1,096	-	8,802	3,785	
Army	41,972	18,779	12,646	6,133	-	23,193	11,508	
Coast Guard ...	2,062	1,013	755	97	161	1,049	524	
Marine Corps ..	16,570	9,651	5,210	4,441	-	6,919	4,839	
Navy	41,758	21,447	13,770	4,731	2,946	20,311	10,996	

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

Table 307.-- NATIONAL GUARD STRENGTH: 1985 TO 1989

[Actual strength as of late June]

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

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

Table 308.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1988

Category	All services	Army	Navy	Air Force	Other DoD
Total	64,510	23,466	32,681	8,243	120
Military personnel <u>1</u> /	43,953	18,170	19,857	5,926	-
Civilian personnel <u>2</u> /	20,557	5,296	12,824	2,317	120

Footnotes and source follow next table.

Table 309.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1988

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	64,510	43,953	20,557
Aiea	1,281	975	306
Barbers Point NAS	1,762	1,390	372
Ford Island	404	372	32
Fort Shafter	2,935	869	2,066
Hickam AFB	8,287	6,285	2,002
Honolulu	2,533	2,160	373
Kaneohe	8,875	8,157	718
Kapalama	246	32	214
Kauai	240	133	107
Kunia	1,248	1,205	43
Lualualei	486	224	262
Pearl Harbor	18,553	7,670	10,883
Schofield Barracks	13,003	11,891	1,112
Tripler Army Medical Center	1,050	-	1,050
Wahiawa	820	618	202
Wheeler AFB	1,500	1,033	467
Other	1,287	939	348

1/ Active duty. Navy figure is limited to shore-based personnel and excludes personnel afloat and temporary shore-based.

2/ Direct hire. Army and Air Force data include civil function personnel.

Source: U.S. Department 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, 1988, pp. 6 and 29.

Table 310.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1983 TO 1988

Service	1983	1984	1985	1986	1987	1988
Total	20,850	20,600	20,750	20,400	20,150	20,200
Air Force	2,650	2,650	2,650	2,650	2,550	2,450
Army	4,850	5,000	5,400	5,600	5,600	5,500
Navy	13,350	12,950	12,700	12,150	11,950	12,250

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1989.

Table 311.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1986 TO 1988

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

Procurement program	1986	1987	1988
Total	562,843	461,449	540,991
Ships	12,556	14,352	14,459
Electronics and communication equipment ...	27,008	23,256	34,798
Petroleum	181,976	7,043	72,585
Construction	197,596	240,764	250,616
Services	108,205	150,039	139,167
All other procurement programs	35,502	25,995	29,366

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1988, 1987, and 1986, p. 29.

Table 312.-- DEFENSE EXPENDITURES: 1978 TO 1988

[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
1978	1,155,517	465,449	354,530	335,538
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
SERVICE: 1987				
Air Force	212,380	107,715	37,501	67,164
Army	744,307	418,711	119,431	206,165
Coast Guard <u>2/</u> ..	28,808	23,185	3,308	2,315
Navy and Marine Corps <u>1/</u>	871,474	311,562	416,651	143,261
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

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

2/ Revised.

Source: Quarterly reports submitted to DBED by armed forces.

Table 313.-- 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 314.-- HOUSING UNITS OWNED OR OPERATED BY THE ARMED FORCES, BY COUNTIES: APRIL 1, 1988 AND 1989

Year	State total	Hono-lulu	Hawaii	Kauai	Maui
1988	19,341	19,254	15	66	6
1989	19,368	19,290	12	60	6

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

Table 315.-- VETERANS IN CIVIL LIFE: 1979 AND 1989

Period of service	March 31, 1979	March 31, 1989
Total veterans <u>1/</u>	94,000	100,000
Wartime veterans <u>1/</u>	79,000	78,000
Vietnam era	33,000	37,000
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>	2,000	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 (semi-annual report).

Table 316.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1988

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	11,982	10,934	13,453	1,230
Army	4,885	4,350	4,947	1,137
Navy	3,325	3,059	3,808	1,245
Marine Corps	813	732	1,025	1,400
Air Force	2,959	2,793	3,673	1,315

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, Defense Manpower Data Center, FY 1988 DOD Statistical Report on the Military Retirement System (1989), p. 20.