

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 64,000 officers and enlisted men (including 3,400 aboard ships homeported in Hawaii) and 70,000 military dependents in the Islands as of July 1, 1988. 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 41 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 (\$1.86 billion), military prime contract awards (\$461 million), civilian employment (20,000), veterans in civil life (101,000), military personnel receiving retired pay (10,700, receiving \$12.7 million monthly), military-connected pupils in public schools (20,500), military housing (19,200 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-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 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: 1988 presents data on national defense and veterans affairs for other states and the entire nation.

Table 319.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1988

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

Year	Number	Year	Number	Year	Number
1970	15,331	1983	11,641	1986	10,882
1975	10,640	1984	11,466	1987	10,896
1980	11,851	1985	10,827	1988	10,548

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

Table 320.-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS: 1980 TO 1987

[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

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 321.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1988

[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

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

Source: Hawaii State Department of Business and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 1, as updated, and forthcoming report.

Table 322.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1988

[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	133,958	64,053	45,244	15,377	3,432	69,905	34,535	
By island:								
Oahu	133,419	63,824	45,091	15,303	3,430	69,595	34,417	
Hawaii	169	46	29	16	1	123	26	
Maui	86	35	34	-	1	51	12	
Kauai	269	133	89	44	-	136	80	
Kure Atoll	15	15	1	14	-	-	-	
By service:								
Air Force	14,131	5,588	4,432	1,156	-	8,543	3,831	
Army	43,353	18,576	13,118	5,458	-	24,777	12,257	
Coast Guard ...	2,110	1,018	778	101	139	1,092	536	
Marine Corps ..	19,134	10,926	5,998	4,928	-	8,208	5,088	
Navy	55,230	27,945	20,918	3,734	3,293	27,285	12,823	

Source: Hawaii State Department of Business and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 2, as updated, and forthcoming report.

Table 323.-- NATIONAL GUARD STRENGTH: 1984 TO 1988

[Actual strength as of late June]

Service	1984	1985	1986	1987	1988
Total	5,866	6,096	5,882	5,814	5,839
Air National Guard ...	2,073	2,227	2,197	2,190	2,188
Army National Guard ..	3,793	3,869	3,685	3,624	3,651

Source: Hawaii State Department of Defense, Annual Report for 1984-1986, and records.

Table 324.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1987

Category	All services	Army	Navy	Air Force	Other DoD
Total	66,078	24,722	32,546	8,688	122
Military personnel <u>1/</u> .	45,396	19,264	19,945	6,187	-
Civilian personnel <u>2/</u> .	20,682	5,458	12,601	2,501	122

Footnotes and source follow next table.

Table 325.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1987

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	66,078	45,396	20,682
Aiea	1,079	772	307
Barbers Point NAS	2,388	2,008	380
Ford Island	441	407	34
Fort Shafter	2,093	-	2,093
Hickam AFB	8,299	6,130	2,169
Honolulu	4,198	2,318	1,880
Kaneohe	8,610	7,925	685
Kapalama	267	29	238
Kauai	224	129	95
Kunia	1,455	1,413	42
Lualualei	485	216	269
Pearl Harbor	16,485	7,314	9,171
Schofield Barracks	15,186	14,027	1,159
Tripler Army Medical Center	1,120	8	1,112
Wahiawa	838	634	204
Waialua	812	778	34
Wheeler AFB	1,586	1,104	482
Other	512	184	328

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, 1987, p. 28.

Table 326.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1982 TO 1987

Year	Total	Air Force	Army	Navy
1982	20,400	2,650	4,650	13,100
1983	20,850	2,650	4,850	13,350
1984	20,600	2,650	5,000	12,950
1985	20,750	2,650	5,400	12,700
1986	20,400	2,650	5,600	12,150
1987	20,050	2,550	5,600	11,900

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1988.

Table 327.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1985 TO 1987

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

Procurement program	1985	1986	1987
Total	626,153	562,843	461,449
Ships	20,971	12,556	14,352
Electronics and communication equipment ...	36,232	27,008	23,256
Petroleum	140,438	181,976	7,043
Construction	311,761	197,596	240,764
Services	94,151	108,205	150,039
All other procurement programs	22,600	35,502	25,995

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Prime Contract Awards by Region and State, Fiscal Years 1987, 1986, 1985, p. 29.

Table 328.-- DEFENSE EXPENDITURES: 1977 TO 1987

[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
1977	1,086,561	432,754	325,778	328,029
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>I/</u>	1,784,868	822,954	601,476	360,437
1987 <u>I/</u>	1,855,670	860,174	576,591	418,904
SERVICE: 1986				
Air Force	202,407	106,788	38,708	56,912
Army	658,609	385,013	149,253	124,343
Coast Guard	31,855	25,170	3,765	2,919
Navy and Marine Corps <u>1/</u>	891,996	305,983	409,750	176,263
SERVICE: 1987				
Air Force	212,380	107,715	37,501	67,164
Army	744,307	418,711	119,431	206,165
Coast Guard	27,508	22,185	3,008	2,315
Navy and Marine Corps <u>1/</u>	871,474	311,562	416,651	143,261

1/ Military payroll partly estimated due to change in reporting method.

Source: Quarterly reports submitted to DBED by armed forces.

Table 329.-- 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 330.-- HOUSING UNITS OWNED OR OPERATED BY THE ARMED FORCES, BY COUNTIES: APRIL 1, 1987 AND 1988

Year	State total	Hono-lulu	Hawaii	Kauai	Maui
1987	19,211	19,125	18	62	6
1988	19,341	19,254	15	66	6

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 8, as updated.

Table 331.-- VETERANS IN CIVIL LIFE: 1978 AND 1988

Period of service	March 31, 1978	March 31, 1988
Total veterans <u>1/</u>	93,000	101,000
Wartime veterans <u>1/</u>	80,000	80,000
Vietnam era	33,000	37,000
Korean conflict	21,000	21,000
World War II	31,000	32,000
World War I	1,000	(Z)
Peacetime veterans	13,000	21,000
Post-Vietnam era only <u>2/</u>	1,000	9,000
Between Korea and Vietnam only	12,000	11,000
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 332.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Male veterans	98,633	10,117	77,356	12	4,133	7,015
Percent of civilian males, 16 years and over	31.1	29.9	32.0	13.6	28.4	26.4
Female veterans	5,141	359	4,381	-	129	272
Percent of civilian females, 16 years and over	1.5	1.1	1.6	0	0.9	1.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 333.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1987

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	11,749	10,750	12,723	1,184
Army	4,809	4,290	4,730	1,103
Navy	3,257	3,012	3,597	1,194
Marine Corps	800	716	957	1,337
Air Force	2,883	2,732	3,438	1,258

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 1987 DOD Statistical Report on the Military Retirement System (1988), p. 20.

Table 334.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES:
1914 TO 1976

[Data refer to U.S. military personnel whose home state or
pre-service residence of record was Hawaii]

War	Personnel serving	Battle deaths	Nonbattle deaths	Wounded
World War I ^{1/}	9,800		102	(NA)
World War II	28,008	658	138	(NA)
Korean conflict	(NA)	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)

NA Not available.

^{1/} Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I. Of the 102 war casualties, only 14 occurred overseas prior to the armistice; 61 took place in Hawaii or North America or after the armistice, and the time or place of 27 is unknown.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, September 9, 1977), tables 6 and 7.