

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 54,000 officers and enlisted men (including 2,600 aboard ships homeported in Hawaii) and 63,000 military dependents in the Islands as of July 1, 1991. 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 and Marine Corps account for half of the current total. More than 10,000 Hawaii residents were in the armed forces worldwide in 1991. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$512 million), civilian employment (19,000), veterans in civil life (100,000), military personnel receiving retired pay (11,300, receiving \$15 million monthly), military-connected pupils in public schools (19,900), military housing (19,300 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: 1991 presents data on national defense and veterans affairs for other states and the entire nation.

Table 300.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1991

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

Year	Number	Year	Number	Year	Number
1970	15,331	1985	10,827	1989 <u>1/</u> ..	10,501
1975	10,640	1987	10,896	1990	10,052
1980	11,851	1988	10,548	1991	10,076

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

Table 301.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1985 TO 1990

[As of September 30. Excludes Coast Guard]

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>
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
1990	39,936	51,727	19,857

1/ Excludes Navy personnel afloat or temporary shorebased.

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 302.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1991

[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 ^{1/}			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
1991: July 1 ...	117,141	53,813	51,197	2,616	63,328	28,655

^{1/} 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 303.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1991

[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	117,141	53,813	34,715	16,482	2,616	63,328	28,655	
By island:								
Oahu	116,603	53,561	34,523	16,422	2,616	63,042	28,508	
Hawaii	199	76	73	3	-	123	60	
Maui	40	13	13	-	-	27	9	
Kauai	274	141	106	35	-	133	77	
Kure Atoll	25	22	-	22	-	3	1	
By service:								
Air Force	13,901	5,961	4,792	1,169	-	7,940	3,280	
Army	42,524	18,910	11,484	7,426	-	23,614	9,333	
Coast Guard ...	2,182	1,030	822	79	129	1,152	510	
Marine Corps ..	15,784	7,022	3,674	3,348	-	8,762	3,362	
Navy	42,750	20,890	13,943	4,460	2,487	21,860	12,170	

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

Table 304.-- NATIONAL GUARD STRENGTH: 1986 TO 1991

[Actual strength as of late June]

Service	1986	1987	1988	1989	1990	1991
Total	5,882	5,814	5,838	5,769	5,711	5,632
Air National Guard ...	2,197	2,190	2,187	2,159	2,124	2,078
Army National Guard ..	3,685	3,624	3,651	3,610	3,587	3,554

Source: Hawaii State Department of Defense, records.

Table 305.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1990

Category	All services	Army	Navy	Air Force	Other DoD
Total	59,793	24,138	27,686	7,855	114
Military personnel <u>1</u> /	39,936	18,590	15,735	5,611	-
Civilian personnel <u>2</u> /	19,857	5,548	11,951	2,244	114

Footnotes and source follow next table.

Table 306.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1990

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	59,793	39,936	19,857
Aiea	762	479	283
Barbers Point NAS	1,851	1,480	371
Camp H. M. Smith	952	952	-
Ford Island	365	330	35
Fort Shafter	2,035	2	2,033
Hickam AFB	7,705	5,763	1,942
Honolulu	1,983	1,627	356
Kaneohe	5,261	4,574	687
Kapalama	213	30	183
Kauai	287	150	137
Kunia	1,554	1,505	49
Lualualei	481	213	268
Pearl Harbor	17,477	7,426	10,051
Schofield Barracks	14,714	13,616	1,098
Tripler Army Medical Center	1,361	-	1,361
Wahiawa	912	730	182
Wheeler AFB	1,342	880	462
Other	538	179	359

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat on 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, 1990, pp. 6 and 28.

Table 307.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1985 TO 1990

Service	1985	1986	1987	1988	1989	1990
Total	20,750	20,400	20,150	20,200	20,100	19,350
Air Force	2,650	2,650	2,550	2,450	2,350	2,300
Army	5,400	5,600	5,600	5,500	5,550	5,550
Navy	12,700	12,150	11,950	12,250	12,200	11,500

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated annually through April 1991.

Table 308.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1988 TO 1990

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

Procurement program	1988	1989	1990
Total	540,991	578,733	511,893
Ships	14,459	25,529	16,086
Electronics and communication equipment ...	34,798	32,645	37,214
Petroleum	72,585	38,240	59,274
Construction	250,616	262,044	157,555
Services	139,167	191,413	198,244
All other procurement programs	29,366	28,862	43,520

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1990, 1989, and 1988, p. 29.

Table 309.-- ALTERNATE ESTIMATES OF FEDERAL DEFENSE EXPENDITURES:
1970 TO 1990

[In millions of dollars. These widely differing estimates from different sources reflect variations in coverage, definitions, and reporting periods. DBED plans to issue new and revised estimates in 1992]

Year	Based on GSP accounts <u>1/</u>	Based on local services <u>2/</u>	Census Bureau data <u>3/</u>	Bank of Hawaii estimates <u>4/</u>
1970	916.8	639.4	524	675.2
1971	958.6	708.8	623	722.2
1972	1,068.2	744.2	670	763.4
1973	1,223.1	840.9	807	872.2
1974	1,311.8	897.9	944	935.0
1975	1,442.1	982.8	1,107	1,027.5
1976	1,499.2	1,034.2	1,221	1,080.3
1977	1,576.1	1,086.6	995	1,131.8
1978	1,644.5	1,155.5	1,240	1,214.8
1979	1,707.7	1,221.8	1,372	1,309.7
1980	1,865.4	1,317.4	1,648	1,399.2
1981	2,041.2	1,449.3	2,223	1,520.9
1982	2,385.3	1,693.4	1,932	1,820.0
1983	2,566.5	1,848.2	2,198	2,028.7
1984	2,653.0	1,867.2	2,324	2,062.9
1985	2,810.1	1,965.4	2,553	2,159.5
1986	2,866.3	1,784.9	2,486	2,033.0
1987	2,923.6	1,857.0	2,503	2,220.1
1988	2,924.2	1,892.4	2,562	2,159.0
1989	3,050.8	2,038.2	2,821	2,313.5
1990	3,203.3	...	2,604	...

1/ DBED estimates based partly on U.S. Bureau of Economic Analysis data; see table 379 and its source.

2/ DBED data based on partial reporting by armed services in Hawaii; see Data Book 1990, table 318. Series discontinued after 1989.

3/ U.S. Department of Defense expenditures reported by U.S. Office of Economic Opportunity (1970-75), Community Services Administration (1976-80), and Bureau of the Census (1981-90); see Data Book for 1982 (table 224), 1987 (table 320), and 1991 (table 291). Data refer to fiscal years.

4/ Bank of Hawaii estimates reported in their Hawaii 1990, Annual Economic Report, p. 38. Series discontinued after 1989 and replaced with Census Bureau data.

Sources cited in footnotes.

Table 310.-- 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 311.-- HOUSING UNITS OWNED BY THE ARMED FORCES,
BY COUNTIES: APRIL 1, 1990 AND 1991

Year	State total	Hono- lulu	Hawaii	Kauai	Maui
1990	19,199	19,116	15	62	6
1991	19,348	19,272	8	62	6

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

Table 312.-- 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	(2)
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 313.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1990

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	12,461	11,334	15,030	1,326
Army	5,077	4,512	5,479	1,214
Navy	3,472	3,196	4,364	1,365
Marine Corps	830	743	1,128	1,518
Air Force	3,082	2,883	4,068	1,411

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 1990 DOD Statistical Report on the Military Retirement System (1991), p. 20.