

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 53,000 officers and enlisted men (including 2,800 aboard ships homeported in Hawaii) and 57,000 military dependents in the Islands as of July 1, 1992. 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 8,400 Hawaii residents were in the armed forces worldwide in 1992. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$697 million), civilian employment (19,000), veterans in civil life (119,000), military personnel receiving retired pay (11,400, receiving \$16 million monthly), military-connected pupils in public schools (19,800), military housing (19,700 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 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: 1992 presents data on national defense and veterans affairs for other states and the entire nation.

Table 310.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1992

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

Year	Number	Year	Number	Year	Number
1970	15,331	1985	10,827	1990	10,052
1975	10,640	1988	10,548	1991	10,076
1980	11,851	1989 <u>1/</u> .	10,501	1992	8,432

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 311.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1986 TO 1991

[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>
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
1991	42,869	50,006	18,978

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 312.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1992

[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
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

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 313.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1992

[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	109,959	52,965	32,317	17,889	2,759	56,994	23,751	
By island:								
Oahu	109,438	52,729	32,138	17,838	2,753	56,709	23,610	
Hawaii	209	80	66	10	4	129	58	
Maui	40	17	17	-	-	23	12	
Kauai	272	139	96	41	2	133	71	
Kure Atoll <u>1/</u> .	-	-	-	-	-	-	-	
By service:								
Air Force	12,583	5,175	4,728	447	-	7,408	3,100	
Army	43,067	19,121	11,173	7,948	-	23,946	9,514	
Coast Guard ...	2,484	1,166	924	67	175	1,318	552	
Marine Corps ..	19,077	9,402	3,975	5,427	-	9,675	3,734	
Navy	32,748	18,101	11,517	4,000	2,584	14,647	6,851	

1/ Disestablished effective July 2, 1992.

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

Table 314.-- NATIONAL GUARD STRENGTH: 1987 TO 1992

[Actual strength as of late June]

Service	1987	1988	1989	1990	1991	1992
Total	5,814	5,838	5,769	5,711	5,632	5,628
Air National Guard ...	2,190	2,187	2,159	2,124	2,078	2,128
Army National Guard ..	3,624	3,651	3,610	3,587	3,554	3,500

Source: Hawaii State Department of Defense, records.

Table 315.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1991

Category	All services	Army	Navy	Air Force	Other DoD
Total	61,847	24,024	29,921	7,694	208
Military personnel <u>1</u> /	42,869	18,876	18,498	5,495	-
Civilian personnel <u>2</u> /	18,978	5,148	11,423	2,199	208

Footnotes and source follow next table.

Table 316.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1991

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	61,847	42,869	18,978
Aiea	674	441	233
Barbers Point NAS	1,579	1,234	345
Camp H. M. Smith	793	793	-
Ford Island	333	295	38
Fort Shafter	3,174	1,271	1,903
Hickam AFB	5,874	3,959	1,915
Honolulu	831	310	521
Kaneohe	8,228	7,553	675
Kapalama	155	8	147
Kauai	275	145	130
Kunia	401	357	44
Lualualei	479	199	280
Pearl Harbor	17,156	7,736	9,420
Schofield Barracks	16,009	15,026	983
Tripler Army Medical Center	3,153	1,900	1,253
Wahiawa	724	545	179
Wheeler AFB	1,373	911	462
Other	636	186	450

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, 1991, pp. 6 and 29.

Table 317.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1986 TO 1991

Service	1986	1987	1988	1989	1990	1991
Total	20,400	20,150	20,200	20,100	19,350	19,050
Air Force	2,650	2,550	2,450	2,350	2,300	2,250
Army	5,600	5,600	5,500	5,550	5,600	5,500
Navy	12,150	11,950	12,250	12,200	11,450	11,300

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

Table 318.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1989 TO 1991

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

Procurement program	1989	1990	1991
Total	578,733	511,893	697,127
Ships	25,529	16,086	6,771
Electronics and communication equipment ...	32,645	37,214	20,751
Petroleum	38,240	59,274	57,295
Construction	262,044	157,555	312,601
Services	191,413	198,244	254,257
All other procurement programs	28,862	43,520	45,452

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1991, 1990, and 1989, p. 29.

Table 319.-- ALTERNATE ESTIMATES OF FEDERAL DEFENSE EXPENDITURES:
1971 TO 1991

[In millions of dollars. These widely differing estimates from different sources reflect variations in coverage, definitions, and reporting periods]

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>
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	...
1991	3,300.0	...	2,936	...

1/ DBEDT estimates based partly on U.S. Bureau of Economic Analysis data; see table 391 and its source. The 1991 figure is preliminary.

2/ DBEDT 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 (1971-75), Community Services Administration (1976-80), and Bureau of the Census (1981-91); see Data Book for 1982 (table 224), 1987 (table 320), and 1992 (table 301). 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 320.-- 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	-	-	3
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: Honolulu Advertiser, November 16, 1992, p. A2.

Table 321.-- HOUSING UNITS OWNED BY THE ARMED FORCES,
BY COUNTIES: APRIL 1, 1991 AND 1992

Year	State total	Hono- lulu	Hawaii	Kauai	Maui
1991	19,348	19,272	8	62	6
1992	19,688	19,612	8	62	6

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

Table 322.-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1960 TO 1990

Veteran status	Civilian males			All civilians <u>1/</u>	
	1960 <u>2/</u>	1970	1980	1980	1990
Civilians 16 and over ...	185,069	223,573	316,651	665,036	801,517
Veterans	55,938	89,098	98,633	103,774	119,256
War veterans <u>3/</u>	46,888	75,026	82,230	85,322	87,301
Vietnam era	-	20,548	36,441	38,136	41,860
Korean conflict	14,644	20,006	21,860	22,351	22,362
World War II	31,053	34,486	31,170	32,156	32,551
World War I	3,689	2,501	824	854	132
Peacetime veterans only	9,050	14,072	16,403	18,452	31,955
Nonveterans	129,131	134,475	218,018	561,262	682,261

1/ Not available for female civilians before 1980.

2/ 14 years old and over.

3/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, Final Report PC(1)-13C, table 48; 1970 Census of Population, PC(1)-C13, table 50, 1980 Census of Population, PC80-1-D13, table 204; 1990 Census of Population tapes tabulated by Hawaii State Data Center.

Table 323.-- CIVILIAN VETERANS 16 YEARS AND OVER, BY
COUNTIES: 1990

Age	State total	Ha- waii	Hono- lulu	Kala- wao	Kauai	Maui
Total, all ages	119,256	13,655	91,022	33	4,906	9,640
65 years and over ..	24,638	3,089	18,692	-	919	1,938

Source: U.S. Bureau of the Census, 1990 Census of Population and Housing, Summary Social, Economic and Housing Characteristics, Hawaii, 1990 CPH-5-13 (April 1992), table 4.

Table 324.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1991

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	12,547	11,446	15,928	1,392
Army	5,063	4,553	5,770	1,267
Navy	3,510	3,225	4,680	1,451
Marine Corps	857	768	1,217	1,585
Air Force	3,117	2,900	4,262	1,470

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 1991 DOD Statistical Report on the Military Retirement System (1992), p. 20.

Table 325.-- 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 <u>1/</u>	Battle deaths <u>2/</u>	Nonbattle deaths	Wounded
World War I <u>3/</u>	9,800		102	(NA)
World War II	36,777	658	138	(NA)
Korean conflict	16,594	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)

NA Not available.

1/ Korean conflict figure is number of Hawaii residents serving worldwide at wartime peak, June 30, 1952.

2/ Vietnam conflict figure refers to deaths from hostile action.

3/ 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.

Source: World War I data from Ralph S. Kuykendall, Hawaii in the World War (1928), pp. xvii-xix and 90. World War II data from Hawaii-Alaska Statehood. Hearings Before the Committee on Interior and Insular Affairs, House of Representatives ... 1955, pp. 298-299, and Office of the Assistant Secretary of Defense, Comptroller (Systems Policy & Information), letter dated Nov. 2, 1973. Korean conflict data from Bureau of the Census estimate in Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, Sept. 9, 1977), table 5, and Office of the Assistant Secretary of Defense, op.cit. Vietnam conflict data from DPED, op.cit., table 6, and Assistant Secretary of Defense, op.cit.