

Civilian / Military Task Force Comprehensive Development Plan: Military Characteristics on Guam

During the 20th century, Guam's population structure changed radically as a result of the events of World War II. Prior to World War II, over 95 percent of Guam's population was born here with less than 1,000 persons born elsewhere. The breakout of World War II resulted in the entry of tens of thousands of U.S. military personnel to seize Guam from the Japanese occupied forces. Guam's population structure was instantaneously altered by the continuing large military presence and the requirement of skilled labor. After the end of World War II,



Guam was the site of major naval and air force facilities to guard U.S. defense commitments in the Asia-Pacific region. Guam served as a valuable strategic location to support military operations and activities in the Pacific. By the 1980s, Guam's emerging military presence coupled with increased foreign investment and strong tourism arrivals spurred substantial economic growth and development for the island.

Between 1990 and 2000 the number of military and their dependents were reduced due to base closures and military downsizing initiated in 1995. Military related population dramatically decreased from 19,610 (active duty personnel and their dependents) in 1990 to 11,624 in 2000. The economic impact of the base closure, unit transfers, and scale back activities has resulted in job losses of federal civilian jobs and military positions. Additionally, the Asian economic decline, natural disasters, and the repercussions of the 9-11 terrorist attacks have resulted in business closures and loss of job opportunities. Only in recent years, through public and private partnership efforts, have we seen gradual but significant improvements in the economy. Private sector job gains, record-breaking visitor arrivals, and new construction projects are indicators that Guam is on the road to economic recovery and stabilization. With the anticipated military expansion and relocation of the Marines, the increase of 20,000 military personnel and their families will further stimulate economic activity and military related operations in the Pacific.

The following presents an analysis on Guam's military population and its characteristics. It is intended to assist government and business officials with valuable information about Guam's military make-up in order to address potential impacts (infrastructure, housing, public safety, and social concerns) and possible erosion to resources for purposes of maintaining an improved quality of life for the military and local residents alike.

Highlights

- ➔ In 2000, 3,877 persons lived in group quarters. Group Quarters included institutionalized and non-institutionalized population. This was a 55 percent drop from 1990 figures, or 8,556 persons. The most dramatic decline is reported for persons living in military quarters. There was a 72 percent decline in military quarters occupancy between 1990 (6,086 persons) and 2000 (or 1,710 persons).
- ➔ The 2000 Guam Census reported 10,510 Whites or Caucasians, making up 7 percent of Guam's total population (or 154,805 persons). The percentage of Whites decreased by nearly half between 1990 (19,160 whites) and 2000 (10,510 whites).
- ➔ The 1990 Census results reported that 22 percent of all persons 16 years and over served in the armed forces. In 2000, the Census reported 14,815 persons, or 15 percent, in the armed forces for persons 18 years of age and over.
- ➔ Of all persons in the armed forces, nearly 60 percent served on active duty in 1990 while only 30 percent reportedly were active duty personnel in 2000. The median age of persons serving on active duty was 27 years old in 1990. By 2000, the median age of active duty personnel grew slightly at 29 years of age.
- ➔ Twenty percent of Guam's total population in 1990 comprised active duty military and their dependents (or 27,086). The once strong military presence dropped by 2000. In 2000, there were 16,215 persons of active duty personnel and military dependents on Guam, making up 10 percent of Guam's total population.
- ➔ The number of military dependents on Guam dropped 22 percent between 1990 and 2000, 15,198 dependents to 11,840 dependents, respectively.
- ➔ COMNAVMAR reports indicated that the military related population on Guam peaked at 22,178 persons in 1992 and reached its lowest point in 2001 with 11,153 active duty military and their dependents.
- ➔ COMNAVMAR annual reports revealed that the U.S. Navy made up the largest active duty personnel followed by the U.S. Air Force. The U.S. Army active duty personnel increased dramatically from its initial showing of 56 persons in 1990 to well over 400 persons by 2005.
- ➔ From 1990 to 1992, the U.S. Marine Corps reported an average of about 350 active duty members. The number of U.S. Marine Corps on active duty dropped radically from over 300 persons in 1992 to no active duty Marines in 1997. The reduced Marine Corps personnel on Guam continued to 2005, averaging less than 5 active duty personnel per year.
- ➔ In SY2005-2006, school age children of military families and federal hire made up 7 percent of Guam's 39,000 plus student population.

Group Quarters

All persons not living in households are classified by the Census Bureau as living in group quarters. Two general categories of persons in group quarters are recognized as 1) institutionalized persons (prisons,

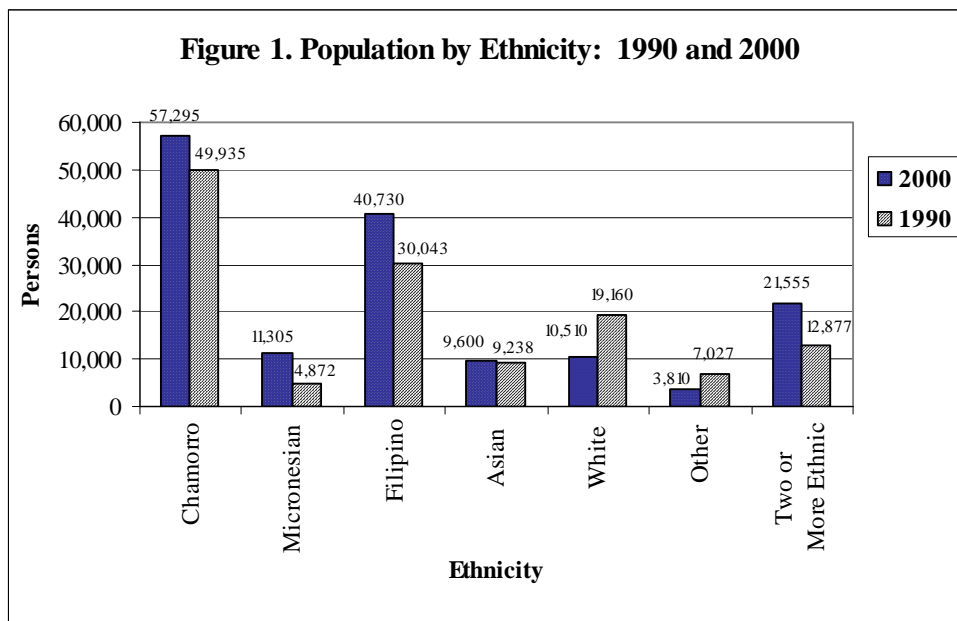
federal detention centers, local jails, juvenile institutions, mental hospitals, nursing homes, etc.) and 2) non-institutionalized persons (college dormitories, military quarters, emergency shelters for the homeless, shelters for the abused, and the like). The 2000 Census results showed that 3,877 persons lived in group quarters (Table 1). While there was a 21 percent rise in persons living in households, Table 1 shows a 55 percent drop of persons living in group quarters between 1990 and 2000. The most dramatic decline can be seen in the non-institutionalized population, specifically military quarters. In 2000, 1,710 persons reported living in military group quarters, occupied mostly by males at 73 percent (1,255 males to 455 females). Table 1 reveals a staggering 72 percent decline in military quarters occupancy between 1990 and 2000.

Description	2000	1990	% change
Total Population	154,805	133,152	16.26
In households	150,928	124,596	21.13
In group quarters	3,877	8,556	(54.69)
Institutionalized population	976	187	421.93
Noninstitutionalized population	2,901	8,369	(65.34)
College dormitories	65	89	(26.97)
Military quarters	1,710	6,086	(71.90)
Other	1,126	2,194	(48.68)

Source: U.S. Census Bureau, U.S. Department of Commerce

Ethnicity

In 2000, Guam's population count was reported at 154,805 persons, a 16 percent increase over Guam's 1990 population (or 133,152 persons). The Chamorros remained the largest ethnic group (57,295) showing an increase of 14.8 percent, followed by the Filipinos (40,730), which increased by 35.6 percent between 1990 and 2000.



Source: U.S. Census Bureau, U.S. Department of Commerce

The 2000 Census data also revealed 10,510 Whites or Caucasians, making up 7 percent of Guam’s total population. The percentage of Whites decreased by nearly half (or 45.1 percent) between 1990 (19,160 whites) and 2000 (10,510 whites) (Figure 1). This can be attributed to federal downsizing, privatization, and military base closures in the mid-1990s.

Military Status

The Guam 2000 Census reported 14,815 persons in the Armed Forces for persons 18 years and over (Table 2). Persons in the armed forces include those on active duty, in the Reserves or National Guard, and persons who served on active duty in the past but not at the time of the Census. The reader should note that unlike the 2000 Census for Guam, the U.S. Census Bureau tabulated the 1990 results for persons in the armed forces aged 16 years and over.

Status	2000	1990
Total Armed Forces	14,815	20,471
On Active Duty	4,375	11,888
On active duty in the past but not now	8,970	7,974
In the Reserves or National Guard only	1,470	609
Males	12,650	18,079
On Active Duty	3,395	10,286
On active duty in the past but not now	8,205	7,282
In the Reserves or National Guard only	1,050	511
Females	2,165	2,392
On Active Duty	980	1,602
On active duty in the past but not now	765	692
In the Reserves or National Guard only	420	98
Source: U.S. Census Bureau, U.S. Department of Commerce		
Note: 1990 data were reported for persons 16 years and over.		
2000 data were reported for persons 18 years and over.		

The 1990 Census results reported that 22 percent (or 20,471 persons) of all persons aged 16 years and over served in the armed forces. The 2000 Census results indicated that there were 99,950 persons aged 18 years and over. Only 15 percent (or 14,815 persons) of all persons 18 years and over were in the armed forces. Males were more likely than females to serve in the armed forces. In 1990, males accounted for 88.3 percent of service in the armed forces. There was a similar showing in 2000, as males made up 85.4 percent (or 12,650 males) of total persons in the armed forces while females accounted for nearly 1 in every 6 persons in the armed forces.

Table 2 shows an increased participation rate of persons in the Reserves or National Guard in 2000 as compared to census data in 1990. In 1990, approximately 3 percent of armed forces personnel served in the National Guard or Reserves. However, by 2000, about 10 percent of all persons in the armed forces served in the Reserves or National Guard, majority being of Chamorro descent.

Of all persons in the armed forces, nearly 60 percent served on active duty in 1990 while only 30 percent reportedly were active duty personnel in 2000. The median age of persons serving on active duty was 27 years old in 1990. By 2000, the median age of active duty personnel grew

slightly at 29 years of age. The 1990 census results showed that there were substantially more males than females on active duty, 87 percent to 13 percent respectively. Similarly, in 2000, about 3 out of every 4 persons on active duty were males. Females accounted for only 22 percent (or 980 persons) of active duty personnel.

Active Duty and Military Dependency

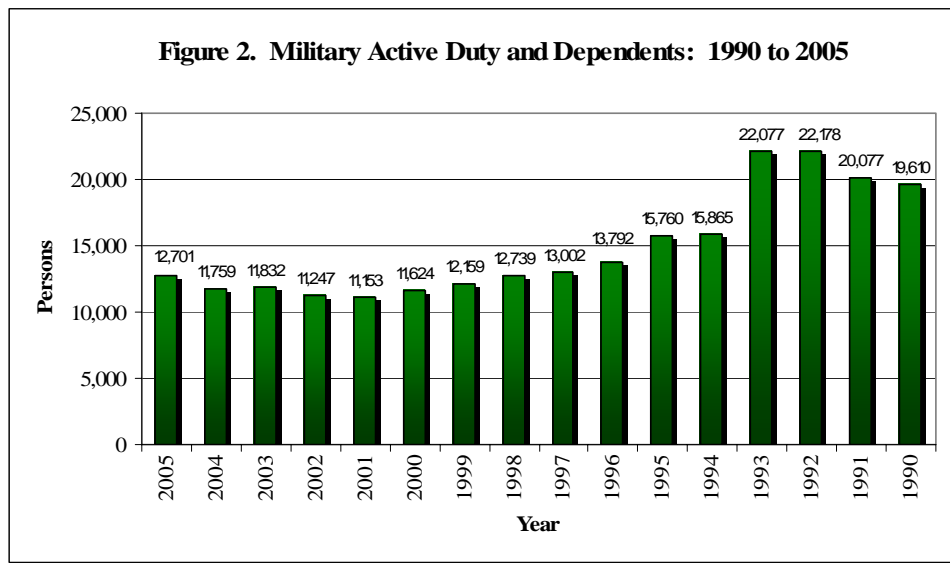
The U.S. Census Bureau characterizes military dependency as a person who is a dependent of either (a) an active duty member of the armed forces, or (b) a retired member of the armed forces or of an active duty or retired member of the full-time National Guard or Armed Forces Reserve.

Table 3 shows that in 1990, 20 percent of Guam's total population comprised active duty military and their dependents (or 27,086 persons). The strong military presence dropped by 2000. In 2000, there were 16,215 persons of active duty personnel and military dependents on Guam, making up 10 percent of Guam's total population. Additionally, the number of military dependents on Guam also dropped 22 percent between 1990 and 2000, 15,198 dependents to 11,840 dependents, respectively.

Description	2000	1990
Total Population	154,805	133,152
Active Duty	4,375	11,888
Military Dependent	11,840	15,198
Of active duty member	6,970	12,149
Other dependent	4,870	3,049
Not a military dependent	138,590	106,066
Males	79,180	70,945
Active Duty	3,395	10,286
Military Dependent	4,550	5,255
Of active duty member	2,650	4,163
Other dependent	1,900	1,092
Not a military dependent	71,235	55,404
Females	75,625	62,207
Active Duty	980	1,602
Military Dependent	7,290	9,943
Of active duty member	4,320	7,986
Other dependent	2,970	1,957
Not a military dependent	67,355	50,662

Source: U.S. Census Bureau, U.S. Department of Commerce

Figure 2 illustrates the level of military active duty and dependents presence on Guam for the periods 1990 to 2005, as released by COMNAV Marianas (COMNAVMAR), Guam. The data includes counts on active duty members of the U.S. Air Force, U.S. Army, U.S. Coast Guard, U.S. Marine Corps, U.S. Navy, and their families.



Source: COMNAVMAR, Guam.

It should be noted that the 1990 and 2000 Guam Census data may differ from the COMNAVMAR results. The U.S. Census Bureau conducts the Census on Guam every ten years and uses April 1 as the reference date. Data for 1998 to 2005 from COMNAVMAR are as of September 30.

In 1990, COMNAVMAR reported 19,610 active duty personnel and military dependents, of which fifty-percent (or 9,830 persons) served on active duty. In 1990, nearly 15 percent of Guam’s total population were active duty military and dependents. By 1999, only 8 percent of Guam’s total population were made up of active duty and family members. From 2000 to 2005, the number of active duty and their families remained steady at 7 percent of Guam’s population. Figure 2 shows that the military related population on Guam peaked at 22,178 persons in 1992 and reached its lowest point in 2001 with 11,153 active duty military and dependents. With its greatest showing

COMNAVMAR annual reports indicated that the U.S. Navy made up the largest active duty personnel followed by the U.S. Air Force. The U.S. Army active duty personnel increased dramatically from its initial showing of 56 persons in 1990 to well over 400 persons by 2005. From 1990 to 1992, the U.S. Marine Corps reported an average of about 350 active duty members. The number of U.S. Marine Corps on active duty dropped radically from over 300 persons in 1992 to no active duty Marines by 1997. The reduced Marine Corps personnel on Guam continued to 2005, averaging less than 5 persons per year. With the anticipated military build up and entry of about 20,000 active duty military and their families, Guam could see the military population escalate beyond 30,000 persons by 2014.

Education

School age children of active duty members and federal employees hired from the U.S. with return rights, may choose to

Year	School Year	Total	Number of School-Age Children			
			DoDEA	Public	Private	Homeschool
2005	2005-2006	2,922	2,331	438	103	50
2004	2004-2005	2,688	2,270	222	131	65
2003	2003-2004	2,382	2,116	126	82	58
2002	2002-2003	2,109	1,763	114	146	86
2001	2001-2002	2,627	2,420	88	92	27
2000	2000-2001	2,860	2,587	133	94	46
1999	1999-2000	2,457	2,212	136	78	31
1998	1998-1999	2,948	2,611	156	76	105

Source: COMNAVMAR, as of September 30.

be enrolled in the Department of Defense Education Activity (DODEA) Schools, Guam public schools, private schools, or home school.

In SY 2005-2006, school age children of military families and federal hire made up about 7 percent of Guam's 39,000 plus student population. In SY 2005-2006, student enrollment of military families and federal hire was reported at 2,922 students, a 9 percent increase over the previous school year. Table 4 shows that since SY 2002-2003, there was growing number of military and federal hire school age children receiving an education (from 2,109 students in SY 2002-2003 to 2,922 students in SY 2005-2006). The data also reveals that majority of school age children of military families were enrolled in the DODEA school system as compared to public, private and homeschooling. Annual DODEA school figures showed that a majority of the students were enrolled in grades Kindergarten to 5th grade, making up over 1,000 students per school year.

Military Active Duty and Family Members

Military and Family Members *	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Active Duty	6,514	6,220	5,944	5,820	5,974	5,806	6,155	6,379	6,265	6,948
U.S. Air Force	1,844	1,950	1,828	1,670	1,981	1,752	1,964	2,119	1,926	2,346
U.S. Army	422	211	217	200	183	172	158	178	186	26
U.S. Coast Guard	160	134	136	136	180	136	130	134	124	128
U.S. Marine Corps	3	3	3	4	4	5	1	2	0	40
U.S. Navy	4,085	3,922	3,760	3,810	3,626	3,741	3,902	3,946	4,029	4,408
Family Members	6,187	5,539	5,888	5,427	5,179	5,818	6,004	6,360	6,737	6,844
U.S. Air Force	2,104	2,733	0	1,445	1,990	1,973	2,275	2,396	1,926	2,351
U.S. Army	1,080	553	0	519	469	335	448	454	186	40
U.S. Coast Guard	172	62	0	133	243	107	102	128	124	87
U.S. Marine Corps	2	0	0	3	6	0	0	0	4	49
U.S. Navy	2,829	2,191	0	3,327	2,471	3,403	3,179	3,382	4,497	4,317
Total Military and Dependents	12,701	11,759	11,832	11,247	11,153	11,624	12,159	12,739	13,002	13,792
Resident Population of Guam **	168,564	166,090	163,593	161,057	158,330	154,805	152,590	149,724	146,799	145,324
Percent military and dependents	7.53%	7.08%	7.23%	6.98%	7.04%	7.51%	7.97%	8.51%	8.86%	9.49%

Source: COMNAVMAR

* Data for 1998 to present from COMNAVMAR, as of September 30 unless otherwise noted.

** Estimates (except 1990 and 2000, Census of Population and Housing) by International Programs Center, U.S. Census Bureau;
Office of Planning and Evaluation, Department of Public Health and Social Services

Military and Family Members *	1995	1994	1993	1992	1991	1990	1989	1988	1987
Active Duty	7,834	7,916	10,639	11,231	10,001	9,830	10,834	11,223	11,753
U.S. Air Force	2,163	2,180	2,550	2,555	2,603	2,491	3,462	3,605	3,873
U.S. Army	56	56	56	56	56	56	48	42	28
U.S. Coast Guard	145	142	142	142	142	182	175	125	129
U.S. Marine Corps	55	51	55	334	334	377	340	335	390
U.S. Navy	5,415	5,487	7,836	8,144	6,866	6,724	6,809	7,116	7,333
Family Members	7,926	7,949	11,438	10,947	10,076	9,780	10,818	11,992	12,037
U.S. Air Force	2,828	3,138	4,131	4,147	3,426	3,897	4,553	5,931	5,054
U.S. Army	171	176	169	169	169	115	100	43	26
U.S. Coast Guard	122	115	117	117	117	145	300	153	160
U.S. Marine Corps	23	45	20	121	121	154	104	155	206
U.S. Navy	4,782	4,475	7,001	6,393	6,243	5,469	5,761	5,710	6,591
Total Military and Dependents	15,760	15,865	22,077	22,178	20,077	19,610	21,652	23,215	23,790
Resident Population of Guam **	144,090	143,157	143,825	142,326	138,159	133,152	130,947	127,545	125,724
Percent military and dependents	10.94%	11.08%	15.35%	15.58%	14.53%	14.73%	16.53%	18.20%	18.92%

Source: COMNAVMAR

* Data for 1998 to present from COMNAVMAR, as of September 30 unless otherwise noted.

** Estimates (except 1990 and 2000, Census of Population and Housing) by International Programs Center, U.S. Census Bureau;
Office of Planning and Evaluation, Department of Public Health and Social Services

DODEA Military/Stateside Hire School-Age Children

Enrollment by Educational System, Guam: 1998-2005

Year	School Year	Total	Number of School-Age Children			
			DoDEA	Public	Private	Homeschool
2005	2005-2006	2,922	2,331	438	103	50
2004	2004-2005	2,688	2,270	222	131	65
2003	2003-2004	2,382	2,116	126	82	58
2002	2002-2003	2,109	1,763	114	146	86
2001	2001-2002	2,627	2,420	88	92	27
2000	2000-2001	2,860	2,587	133	94	46
1999	1999-2000	2,457	2,212	136	78	31
1998	1998-1999	2,948	2,611	156	76	105

Source: COMNAVMAR, as of September 30.

Enrollment in DODEA System by Grade Level

Year	School Year	Total	Enrollment by Grade Level		
			K-5th	6th-8th	9th-12th
2005	2005-2006	2,331	1,414	531	386
2004	2004-2005	2,270	1,340	525	405
2003	2003-2004	2,116	---	---	---
2002	2002-2003	1,763	1,023	453	287
2001	2001-2002	2,420	1,409	595	416
2000	2000-2001	2,587	1,632	635	320
1999	1999-2000	2,212	1,303	568	341
1998	1998-1999	2,611	1,795	462	354

Source: COMNAVMAR, as of September 30.

Enrollment in Public School by Grade Level

Year	School Year	Total	Enrollment by Grade Level		
			K-5th	6th-8th	9th-12th
2005	2005-2006	438	202	120	116
2004	2004-2005	222	107	52	63
2003	2003-2004	126	---	---	---
2002	2002-2003	114	49	25	40
2001	2001-2002	88	36	16	36
2000	2000-2001	133	77	30	26
1999	1999-2000	136	66	32	38
1998	1998-1999	156	88	41	27

Source: COMNAVMAR, as of September 30.

DODEA Military/Stateside Hire School-Age Children

Enrollment in Private School by Grade Level

Year	School Year	Total	Enrollment by Grade Level		
			K-5th	6th-8th	9th-12th
2005	2005-2006	103	51	17	35
2004	2004-2005	131	63	35	33
2003	2003-2004	82	---	---	---
2002	2002-2003	146	71	43	32
2001	2001-2002	92	57	19	16
2000	2000-2001	94	64	20	10
1999	1999-2000	78	50	20	8
1998	1998-1999	76	65	8	3

Source: COMNAVMAR, as of September 30.

Enrollment in Homeschool by Grade Level

Year	School Year	Total	Enrollment by Grade Level		
			K-5th	6th-8th	9th-12th
2005	2005-2006	50	34	8	8
2004	2004-2005	65	49	6	10
2003	2003-2004	58	---	---	---
2002	2002-2003	86	50	19	17
2001	2001-2002	27	18	1	8
2000	2000-2001	46	33	9	4
1999	1999-2000	31	20	8	3
1998	1998-1999	105	57	35	13

Source: COMNAVMAR, as of September 30.